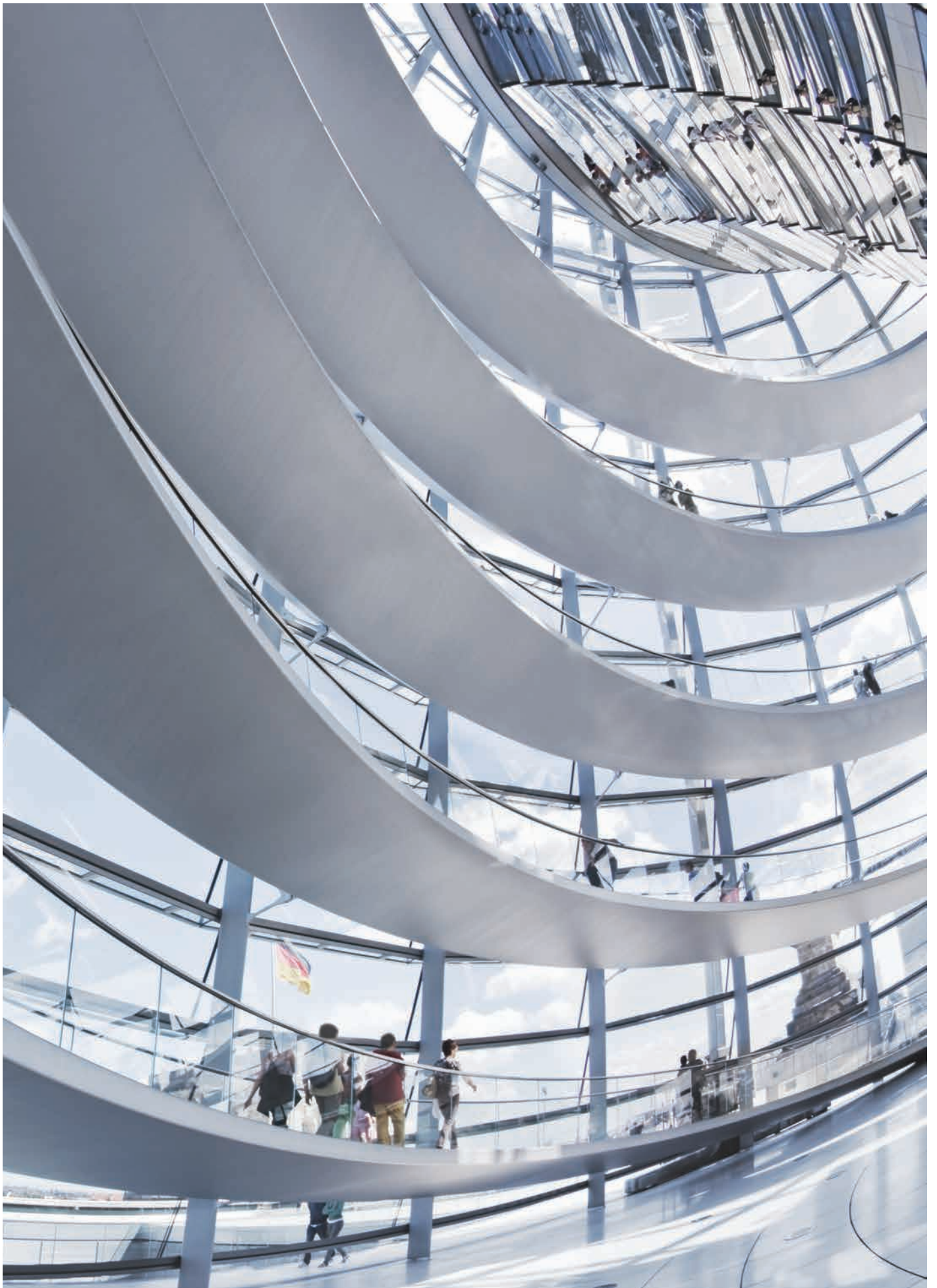




Product Catalogue

# Flexible conduit systems for critical power & data cable protection





# Flexible conduit systems for critical power & data cable protection

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# Introduction

## Introduction

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## Applications

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# Introduction

## Company overview

1



Adaptaflex flexible conduit systems are used to protect critical power and data cabling. Established in 1972 Adaptaflex has developed into a leading player within the flexible conduit market.

Adaptaflex is one of the market leading flexible conduit system brands that can be found all over the world. Combining innovative design with dedicated manufacture it offers customers one of the world's broadest ranges of cable protection products and solutions. With a choice of over 6000 products the range covers metallic and non-metallic flexible conduit systems for the protection of critical power and data cable.

The system solutions from Adaptaflex need to perform in a wide variety of environments from high temperature to freezing subzero conditions. The products are designed and tested to withstand constant vibrations, water ingress, offer corrosion resistance and are available in halogen free, low smoke and low toxicity materials. An extensive range of engineered solutions are designed to withstand the rigours of some of the most technically demanding markets. So whatever your project involves our experience will provide the answer helping you to specify the correct flexible conduit system.

### Markets and industries

Adaptaflex flexible conduit systems are used to protect critical power and data cabling throughout a wide range of markets including:

- Commercial contracting
- Machinery
- Rail / Infrastructure
- Marine
- Mechanical
- Security / CCTV
- Data cabling
- Critical power

Our products are designed and engineered to meet a variety of market application requirements, providing product innovation, saving installation and component costs, improving the quality and the integrity of the end product.

# Introduction

## Quality approvals



### Quality approvals

The company's commitment to independent testing across a wide range of applications has led to an impressive range of certifications and quality approvals:

- BSI Kitemark
- BS EN ISO14001 Environmental standard
- IEC 61386 Conduit standard covering the performance characteristics of flexible conduits
- IP69, DIN 40050, standard with its Adaptalok range of non metallic fittings
- Offer non-metallic conduit that is fully compliant to the new dual listed UL 1696 standard. Required for any equipment destined for export to the USA and Canada
- The Hi-Spec PEEK range, designed for the most demanding electrical applications in rail infrastructure, underground and public buildings, is the only non-metallic flexible conduit system fully compliant with both BS 6853 Class 1A requirement and LUL engineering standard 1-085

### Industry standards

As one of the worlds leading flexible conduit system manufacturers, Adaptaflex has achieved many international approvals, for our manufacturing as well as our product ranges.

Adaptaflex are able to use our experience and knowledge to ensure safety and quality levels are maintained now and in the future.



# Introduction

## Third party testing & approvals

1



### Third party testing & approvals

#### IEC61386 Performance classification standard

Adaptaflex has achieved third party accreditation to the IEC61386 Standard from the British Standards Institution (BSI). IEC61386 conformance guarantees that products meet performance specifications for fatigue life, operating temperature, non-flame propagation, IP ratings amongst other criteria.

#### BSI Kitemark

Adaptaflex manufacturer to third party accreditation through the BSI Kitemark scheme. The Kitemark is one of the world's premier symbols of trust, integrity and quality. Manufacturers with the Kitemark are an elite club of some of the world's best companies being annually tested to ensure continued compliance. Having the Kitemark associated with our products illustrates that we have satisfied the most rigorous of quality processes.

#### ISO9001 Quality standard

Adaptaflex conform to ISO 9001:2000, the internationally recognised standard for Quality Management Systems. This standard reflects the procedures and management processes throughout the whole of the company.

### BS EN ISO14001 Environmental standard

Controlling the impact of manufacturing activities on the environment is a major challenge. Again Adaptaflex lead the way by being the first conduit manufacturer to comply with this Standard.

We also meet the requirements of EU directive 2002/95/EC on the restriction of the use of certain hazardous substances (RoHS). This forms part of the legislation on waste management and is aligned with the waste electrical and electronic equipment (WEEE). Specifically no lead, mercury, cadmium, hexavalent chromium; polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) are used in the manufacture of metallic and non-metallic flexible conduit systems.

### Customer support

All our products are backed up by full technical support team, sales teams, customer care team and in-house marketing specialists. All dedicated teams working together to ensure that you have the best of support in the market place.



# Applications

## Construction applications



1



### Construction overview

In these environments there are ever increasing demands not only for quicker and easier to install solutions but also for increased safety and technical performances to meet the specific needs of municipal buildings. The ability to offer product ranges with enhanced low fire hazard properties for safety or overbraiding for security and EMI shielding. Where exposed interiors call for design consideration there is a choice such as conduit in different colours such as white or indifferent materials such as stainless steel to complement interior styling - Adaptaflex have a range to suit.

Typical Applications:

- Office buildings
- Schools
- Hospitals (EMC)
- Retail developments
- Leisure complexes / Sports stadiums

### Industry approved

Adaptaflex products are approved by a range of recognised industry standards including:

- BSI Kitemark to IEC61386
- CE marked to the Low Voltage Directive
- Fully compliant to BS7671 Wiring Regulations code of practice

### Product recommendation

- Low fire hazard PA conduit systems
- Adaptalok fittings
- LFH-SP Liquid resistant covered flexible steel conduit systems enhanced low fire hazard

# Applications

## Machinery applications

1



### Machinery overview

This market is driven by the needs to meet the best in lean manufacturing. To achieve this every piece of equipment in this sector is pushed for greater efficiency by working more intensely and faster. As a result any conduit installed in these applications will need to provide excellent mechanical strength, flexibility and abrasion resistance in order to supply the best possible solution to provide protection along the entire length of all the moving parts.

In this hardworking environment of both dynamic and static applications, it is essential that any cable management products continue to deliver performance in areas where resistance to oils and chemicals is paramount. Any down time in manufacturing can be very costly so products that can offer high ingress protection are fundamental and Adaptaflex can offer a wide range of solutions to meet all of these needs.

Technology is increasingly being used in modern machine tools and the need to interface conduit to multipin-connectors is escalating. Nylon systems continue to gain popularity in this sector due to their excellent performance, flexibility and low installed cost benefits. For this reason Adaptaflex has developed a wide range of liquid tight connector interfaces in the Adaptalok range.

### Typical Applications:

- Metal cutting and fabrication
- Milling machines
- CNC machine tool technology
- Moulding machinery
- Security & CCTV
- Robotics

### Industry approved

Adaptaflex products are approved by a range of recognised industry standards including:

- BSI Kitemark to IEC61386
- CE marked to the Low Voltage Directive
- Fully compliant to BS7671 Wiring Regulations code of practice
- UL / CSA
- UR

### Product recommendation

- SPL liquid tight conduit systems
- PA conduit systems
- SPUL for machinery USA export
- Overbraided conduit systems
- SPLHC conduit systems
- PI conduit systems
- Adapting fittings
- PADL conduit systems
- ATS fittings

# Applications

## Rail infrastructure applications



1



SIEMENS



### Rail overview

For more than 30 years we have worked with the foremost manufacturers and suppliers of public transportation systems throughout the world. We understand not just the Standards that you need to work to, but also the Industry issues that you face including your customer service delivery expectations.

Our systems need to perform in a wide variety of environments from high temperature to freezing subzero conditions. Our products can withstand constant vibrations, water ingress, offer corrosion resistance and are available in halogen free, low smoke and low toxicity materials. If your project involves rail stations, infrastructure, signalling, tunnels, surveillance or data and information systems our experience will provide the answer helping you to specify the correct flexible conduit system.

Typical Applications:

- Infrastructure projects - Stations, tunnels, signalling
- Low fire hazard systems
- Exposed Locations
- High impact resistance, low temperature flexing
- EMC Protection for safety critical systems
- OEM packages

### Industry approved

Adaptaflex products are approved by a range of recognised industry standards including:

- LUL 1-085
- NF F 16-101/102
- Deutsche Bahn (DIN 5510)
- BS6853
- Siemens Transportation
- BSI Kitemark to IEC61386
- CE marked to the Low Voltage Directive
- EN 45545-2

### Approvals & standards

- PA conduit systems
- PR enhanced low fire hazard conduit systems
- PF conduit systems
- PK conduit systems
- LFH-SP conduit systems
- CP conduit systems
- IP66/67/68/69 Adaptaflex / ATS fittings
- Overbraided systems

# Applications

## Marine applications

1



### Marine overview

Safety and reliability are vital considerations within one of the harshest operational environments to be found. Products specified and installed within this sector have to face the particular damaging effects from the wind, wave and salt spray conditions in exposed areas. Whilst this demands for the most robust of products it also calls for solutions where vibration and temperature extremes add to the challenge.

Adaptaflex offer a broad range of solutions to suit this sector which are abrasion, impact, corrosion and chemical resistant, offering long service life and low fire hazard properties. Utilising Adaptalok sealing systems also offers ingress protection particularly valuable in pressure washing applications and with our specialist insert seal raises the IP rating from IP66 to IP67/68/69.

Typical Applications:

- Ship / Boat engine rooms
- Ship and dock yards
- Leisure boats and cruisers
- Marina developments
- Ocean going craft

### Industry approved

Adaptaflex products are approved by a range of recognised industry standards including:

- UR
- BSI Kitemark to IEC61386
- CE marked to the Low Voltage Directive

### Product recommendation

- PA conduit systems
- PR conduit systems
- IP66/67/68/69 Adaptalok ATS™ systems
- Adaptaseal systems
- Stainless steel conduit systems
- SPL conduit systems
- LFH-SP conduit systems

# Applications

## Mechanical applications

1



### Mechanical overview

Adaptaflex offers a range of products suited for this market, providing abrasion, impact and corrosion resistance and ingress protection. Additionally, Adaptaflex offers a range of high specification systems, braided EMI screen options.

Adaptaflex Applications Engineers offer a breadth of experience gained internationally across all different market sectors. A bespoke design service and expert technical knowledge guarantees that Adaptaflex will find the perfect product solution for your application.

Examples of individual markets served:

- Hoists
- Cranes
- Lifts
- Escalators

### Industry approved

Adaptaflex products are approved by a range of recognised industry standards including:

- BSI Kitemark to IEC61386
- CE marked to the Low Voltage Directive
- Fully compliant to BS7671 Wiring Regulations code of practice
- UL / UR
- CSA

### Product recommendation

- SPL liquid tight conduit systems
- PA conduit systems
- Overbraided conduit systems
- Stainless steel conduit systems
- SPLHC conduit systems
- PI conduit systems
- Adapting fittings
- ATS fittings

# Non-metallic conduit systems

## Conduit, fittings & accessories

### Non-Metallic Conduit Systems

|                       |     |
|-----------------------|-----|
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### Non-Metallic Conduit

|           |      |
|-----------|------|
| Type PA   | 2/6  |
| Type PF   | 2/8  |
| Type PI   | 2/9  |
| Type PR   | 2/10 |
| Type CP   | 2/10 |
| Type PADL | 2/11 |

### Adaptalok Fittings

|                            |      |
|----------------------------|------|
| Type A - Adaptalok         | 2/12 |
| Type C90 - Adaptalok       | 2/13 |
| Type 45 - Adaptalok        | 2/14 |
| Push-in - Adaptalok        | 2/14 |
| 3-Way Coupler - Adaptalok  | 2/15 |
| Insert Seal - Adaptalok    | 2/15 |
| Type FL/A - Adaptalok      | 2/16 |
| Type FL/C90 - Adaptalok    | 2/16 |
| Type FL/45 - Adaptalok     | 2/17 |
| Swivel Coupler - Adaptalok | 2/17 |
| Type SA - Adaptalok        | 2/18 |
| Type CS90 - Adaptalok      | 2/18 |
| Type S45 - Adaptalok       | 2/19 |
| Type SFA - Adaptalok       | 2/19 |
| Type CSF90 - Adaptalok     | 2/20 |
| Type SF45 - Adaptalok      | 2/20 |

### Adaptalok UNEF Fittings

|                      |      |
|----------------------|------|
| Type A - Adaptalok   | 2/21 |
| Type C90 - Adaptalok | 2/22 |
| Type 45 - Adaptalok  | 2/23 |

### Adaptalok Jumbo Fittings

|                       |      |
|-----------------------|------|
| Type FL/A - Adaptalok | 2/24 |
| Type SK - Adaptalok   | 2/24 |

### Adaptalok ATSTM Non-Metallic Conduit Systems

|                                 |      |
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| Introduction to Adaptalok ATSTM | 2/26 |
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### Adaptalok ATSTM Fittings

|                              |      |
|------------------------------|------|
| Type A - Adaptalok ATSTM     | 2/27 |
| Type C90 - Adaptalok ATSTM   | 2/28 |
| Type 45 - Adaptalok ATSTM    | 2/29 |
| Type SA - Adaptalok ATSTM    | 2/30 |
| Type CS90 - Adaptalok ATSTM  | 2/30 |
| Type S45 - Adaptalok ATSTM   | 2/31 |
| Type SFA - Adaptalok ATSTM   | 2/31 |
| Type CSF90 - Adaptalok ATSTM | 2/32 |
| Type SF45 - Adaptalok ATSTM  | 2/32 |

### Adaptalok ATSTM Swivel Housing Fittings

|                               |      |
|-------------------------------|------|
| Type SFAJ - Adaptalok ATSTM   | 2/33 |
| Type CSF90J - Adaptalok ATSTM | 2/33 |
| Type SF45J - Adaptalok ATSTM  | 2/33 |

### Adaptalok ATSTM UNEF Fittings

|                              |      |
|------------------------------|------|
| Type SFA - Adaptalok ATSTM   | 2/34 |
| Type CSF90 - Adaptalok ATSTM | 2/35 |
| Type SF45 - Adaptalok ATSTM  | 2/36 |

### Adaptalok ATSTM IP68/69k Fittings

|                                  |      |
|----------------------------------|------|
| Swivel Coupler - Adaptalok ATSTM | 2/37 |
| Type FL/A - Adaptalok ATSTM      | 2/37 |
| Type FL/C90 - Adaptalok ATSTM    | 2/38 |
| Type FL/45 - Adaptalok ATSTM     | 2/38 |

### Adaptalok ATSTM T & Y Piece Fittings

|                          |      |
|--------------------------|------|
| Type T - Adaptalok ATSTM | 2/39 |
| Type Y - Adaptalok ATSTM | 2/40 |

### Corrosion-Resistant Composite Fittings

|                       |      |
|-----------------------|------|
| Introduction          | 2/41 |
| Type PCC/PCF - A Type | 2/42 |
| Type PCC/PCF - CS90   | 2/43 |
| Type PCC/PCF - S45    | 2/44 |

### Adaptaseal Fittings

|                              |      |
|------------------------------|------|
| Type A - Adaptaseal          | 2/45 |
| Type C90 - Adaptaseal        | 2/45 |
| Type FLC90/FL90 - Adaptaseal | 2/46 |
| Type T - Adaptaseal          | 2/46 |
| Type RK - Adaptaseal         | 2/47 |
| Type AWB - Adaptaseal        | 2/47 |

### Adaptaring Fittings

|                       |      |
|-----------------------|------|
| Type A - Adaptaring   | 2/48 |
| Type C90 - Adaptaring | 2/48 |
| Type T - Adaptaring   | 2/49 |
| Type AWB - Adaptaring | 2/49 |

### Korifit Conduit & Fittings

|                       |      |
|-----------------------|------|
| Type KF - Korifit     | 2/50 |
| Type KC/A - Korifit   | 2/51 |
| Type KC/C90 - Korifit | 2/51 |
| Type KF/A - Korifit   | 2/52 |
| Coupler - Korifit     | 2/52 |

### Polypropylene Adaptalok Conduit Systems

|                                      |      |
|--------------------------------------|------|
| Type PP - Polypropylene / Adaptalok  | 2/53 |
| Type PPA - Polypropylene / Adaptalok | 2/53 |

### PVC Xtraflex / RF Fittings

|                          |      |
|--------------------------|------|
| Type XF - PVC / Xtraflex | 2/54 |
| Type RF - PVC / RF       | 2/54 |
| Type A - PVC / XF        | 2/55 |
| Type C90 - PVC / XF      | 2/55 |
| Type A - PVC / RF        | 2/56 |
| Type C90 - PVC / RF      | 2/56 |

### Non-Metallic Accessories

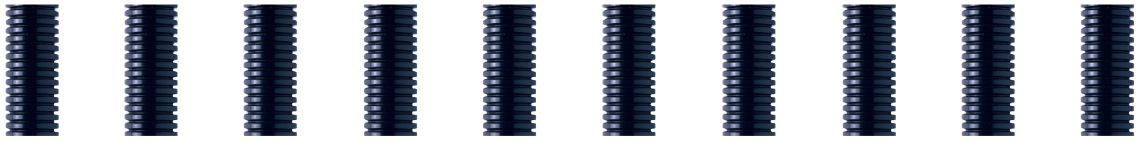
|                                  |      |
|----------------------------------|------|
| Type LNP - Nylon Locknut         | 2/57 |
| Type SW - Thread Sealing Washer  | 2/57 |
| Type AC - Conduit Clip           | 2/57 |
| Type GZ - End Sleeve             | 2/58 |
| Type EC - End Cap                | 2/58 |
| Type RT - Adaptalok Removal Tool | 2/58 |
| Type MB - Manifold Boxes         | 2/59 |
| Hinged T Pieces                  | 2/60 |
| Hinged Y Pieces                  | 2/61 |

### High-Spec Non-Metallic Conduit Systems

|                  |      |
|------------------|------|
| Type PK - Peek   | 2/62 |
| Type A - Peek    | 2/62 |
| Type PKTC        | 2/63 |
| Type PKSS        | 2/63 |
| Type PRTC        | 2/64 |
| Type PRSS        | 2/64 |
| Type A - Hi-Spec | 2/65 |
| Type B - Hi-Spec | 2/65 |

# Non-metallic conduit systems

## Quick selection guide



2

| Conduit Type       | Pitch  | Type PA     | Type PA          | Type PA         | Type PA     | Type PF         | Type PF     | Type PI         | Type PI     | Type PR         | Type PADL       |
|--------------------|--------|-------------|------------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-----------------|
| Part number        | Fine   | PAFL        | PAFL-S           | PAFS            | PAFH        | PFFS            | PFFH        | PIFS            | PIFH        | PRFS            | PADL            |
|                    | Coarse | PACL        | PACL-S           | PACS            | PACH        | PFCS            | PFCH        | PICS            | PICH        | PRCS            |                 |
| Conduit weight     |        | Lightweight | Lightweight slit | Standard weight | Heavyweight | Standard weight | Heavyweight | Standard weight | Heavyweight | Standard weight | Standard weight |
| Conduit material   |        | PA6         | PA6              | PA6             | PA6         | PA12            | PA12        | PA11            | PA11        | PA6             | PA6             |
| Covering/overbraid |        | -           | -                | -               | -           | -               | -           | -               | -           | -               | -               |

### Conduit colour

|            |   |   |   |   |   |   |   |   |   |   |   |
|------------|---|---|---|---|---|---|---|---|---|---|---|
| Black (BL) | • | • | • | • | • | • | • | • | • | • | • |
| Grey (GR)  | • | - | • | • | - | - | - | • | - | - | - |
| White (W)  | - | - | - | - | - | - | - | - | - | - | - |

### IP Rating (with appropriate fitting)

|      |   |   |   |   |   |   |   |   |   |   |   |
|------|---|---|---|---|---|---|---|---|---|---|---|
| IP40 | • | - | • | • | - | - | - | • | • | • | • |
| IP65 | - | - | - | - | - | - | - | - | - | - | - |
| IP66 | • | - | • | • | • | • | • | • | • | • | • |
| IP67 | • | - | • | • | • | • | • | • | • | • | • |
| IP68 | • | - | • | • | • | • | • | • | • | • | • |
| IP69 | - | - | • | - | • | • | • | • | - | • | • |

### Characteristics

#### Temperature Range

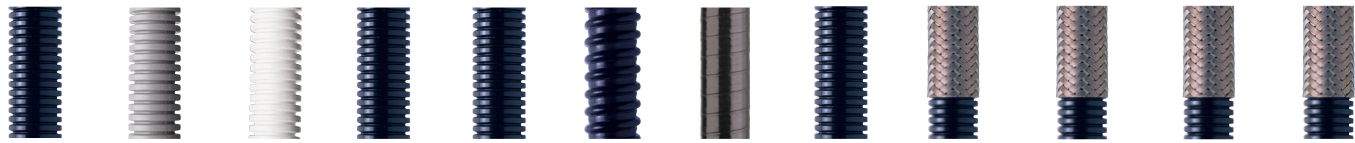
|                          |             |             |             |             |             |             |             |             |             |             |             |
|--------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Static applications (°C) | -40 to +120 | -40 to +120 | -40 to +120 | -40 to +120 | -50 to +110 | -50 to +110 | -50 to +110 | -50 to +110 | -50 to +110 | -40 to +120 | -40 to +120 |
| Moving applications (°C) | -5 to +120  | -5 to +120  | -5 to +120  | -5 to +120  | -45 to +120 | -45 to +120 | -45 to +120 | -45 to +120 | -45 to +120 | -5 to +120  | -18 to +120 |
| UV resistance            | Very high   | Very high   | Very high   | Very high   | Very high   | Very high   | Very high   | Very high   | Very high   | Very high   | Very high   |
| Flexibility              | High        | High        | High        | Medium      | Very high   | High        | Very high   | High        | High        | High        | Medium      |
| Fatigue life             | High        | High        | High        | Medium      | Very high   | High        | Very high   | Very high   | Very high   | Medium      | Medium      |
| Low fire hazard          | -           | -           | Standard    | Standard    | Standard    | Standard    | -           | -           | -           | Enhanced    | Standard    |
| Halogen free             | •           | •           | •           | •           | •           | •           | •           | •           | •           | •           | •           |
| Self extinguishing       | •           | •           | •           | •           | •           | •           | •           | •           | •           | •           | •           |
| EMI screen               | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           |
| High mechanical strength | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           |
| High abrasion resistance | -           | -           | •           | •           | •           | •           | -           | -           | -           | •           | •           |

### Approvals

|                  |   |   |   |   |   |   |   |   |   |   |   |
|------------------|---|---|---|---|---|---|---|---|---|---|---|
| BSI Kitemark     | • | • | • | • | • | • | • | • | • | • | - |
| CE               | • | • | • | • | • | • | • | • | • | • | • |
| UL / CSA         | - | - | • | • | • | • | - | - | - | - | • |
| DIN 5510-2       | • | • | • | • | • | • | • | • | • | • | - |
| NF F             | - | - | • | • | • | • | • | • | • | • | - |
| LUL 1-085        | - | - | - | - | - | - | - | - | - | • | - |
| UNI CEI 11170    | - | - | - | - | • | • | - | - | - | - | - |
| EN45545-2 to HL2 | - | - | - | - | • | • | - | - | - | • | - |
| EN45545-2 to HL3 | - | - | - | - | - | - | - | - | - | • | - |

|                      |     |     |     |     |     |     |     |     |      |      |
|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Section 2 / Page No. | 2/6 | 2/6 | 2/7 | 2/7 | 2/8 | 2/8 | 2/9 | 2/9 | 2/10 | 2/11 |
|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|





| Type CP       | Type KF     | Type KF         | Type KF       | Type PP       | Type XF         | Type RF         | Type PK         | Type PKTC       | Type PKSS       | Type PRTC       | Type PRSS       |
|---------------|-------------|-----------------|---------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| CPFM          | KFL         | KFS             | KFM           | PPFM          | XF              | RF              | PKFS            | PKFSTC          | PKFSSS          | PRFSTC          | PRFSSS          |
| CPCM          |             |                 |               |               |                 |                 | PKCS            | PKGSTC          | PKGSSS          | PRCSTC          | PRCSSS          |
| Medium weight | Lightweight | Standard weight | Medium weight | Medium weight | Standard weight | Standard weight | Standard weight | Standard weight | Standard weight | Standard weight | Standard weight |
| CPe           | PVCu        | PVCu            | PVCu          | PP            | PVC             | PVC             | PK              | PK              | PK              | PA6             | PA6             |
| -             | -           | -               | -             | -             | Plasticised PVC | Plasticised PVC | -               | Tinned copper   | Stainless steel | Tinned copper   | Stainless steel |
| •             | -           | -               | •             | •             | •               | •               | •               | -               | -               | -               | -               |
| -             | •           | -               | -             | -             | -               | •               | -               | -               | -               | -               | -               |
| -             | -           | •               | -             | -             | -               | -               | -               | -               | -               | -               | -               |
| •             | •           | •               | •             | •             | -               | -               | -               | -               | -               | -               | -               |
| •             | •           | •               | •             | -             | •               | -               | -               | -               | -               | -               | -               |
| •             | -           | -               | -             | •             | -               | -               | •               | •               | •               | •               | •               |
| •             | -           | -               | -             | •             | -               | •               | •               | •               | •               | •               | •               |
| •             | -           | -               | -             | •             | -               | -               | -               | -               | -               | -               | -               |
| •             | -           | -               | -             | -             | -               | -               | -               | -               | -               | -               | -               |
| -50 to +135   | -5 to +60   | -5 to +60       | -5 to +60     | -20 to +90    | -5 to +60       | -20 to +60      | -60 to +260     | -60 to +260     | -60 to +260     | -40 to +120     | -40 to +120     |
| -25 to +150   | -5 to +60   | -5 to +60       | -5 to +60     | -5 to +105    | -5 to +60       | -5 to +60       | -45 to +260     | -45 to +260     | -45 to +260     | -5 to +120      | -5 to +120      |
| Very high     | High        | High            | High          | Medium        | High            | High            | Very high       | Very high       | Very high       | Very high       | Very high       |
| Very high     | Pliable     | Pliable         | Pliable       | High          | Very high       | Medium          | High            | High            | High            | High            | High            |
| Very high     | Low         | Low             | Low           | Medium        | Medium          | Medium          | High            | High            | High            | Medium          | Medium          |
| Standard      | -           | -               | -             | -             | -               | -               | Super           | Super           | Super           | Enhanced        | Enhanced        |
| •             | -           | -               | -             | •             | -               | -               | •               | •               | •               | •               | •               |
| •             | •           | •               | •             | -             | •               | •               | •               | •               | •               | •               | •               |
| -             | -           | -               | -             | -             | -               | -               | -               | High            | Standard        | High            | Standard        |
| -             | -           | -               | -             | -             | -               | -               | -               | •               | •               | •               | •               |
| -             | -           | -               | -             | -             | -               | -               | •               | •               | •               | •               | •               |
| •             | •           | •               | •             | -             | -               | -               | •               | •               | •               | •               | •               |
| •             | •           | •               | •             | •             | -               | -               | •               | •               | •               | •               | •               |
| -             | -           | -               | -             | -             | -               | -               | -               | -               | -               | -               | -               |
| -             | -           | -               | -             | -             | -               | -               | •               | •               | •               | •               | •               |
| -             | -           | -               | -             | -             | -               | -               | -               | -               | -               | -               | -               |
| -             | -           | -               | -             | -             | -               | -               | -               | -               | -               | -               | -               |
| -             | -           | -               | -             | -             | -               | -               | -               | -               | -               | -               | -               |
| 2/10          | 2/50        | 2/50            | 2/50          | 2/53          | 2/54            | 2/54            | 2/62            | 2/63            | 2/63            | 2/64            | 2/64            |



# Non-metallic conduit systems

## Introduction

### Range overview

Adaptaflex have more than 20 different types of non-metallic conduit systems all providing different technical properties for your cable management applications.

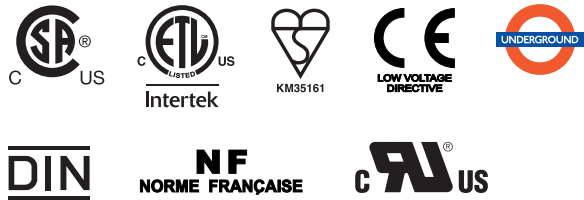
Our Conduit range is available in many different materials, ranging from lightweight to heavyweight with nominal conduit sizes from 10mm right up to the Jumbo size of 106mm.

For more demanding applications, there is a wide-ranging high specification series of conduit with enhanced low fire hazard properties, EMI screening and incorporating high fatigue life. Overbraided options are available for use in abrasive environments.

Standard product is manufactured in a wide range of materials. The corrugated construction provides good flexibility and low weight. Additionally, a range of fittings are specifically designed to maintain system integrity including the popular and easy to fit AdaptaLok system. Fitting types are available in straight, 90°, 45°, with metric, PG, PF, & NPT threads.

#### Advantages:

- Non metallic conduits do not corrode (rust)
- Wider variety of fittings - much larger solutions choice
- Quicker to install (cut & assemble fittings)
- Lighter in weight
- Better fatigue life
- Return to shape



Many of our conduit systems have industry recognised approvals including British Kitemark, CE Approval, UL 1696, NF, LUL and DIN amongst others.



# Non-metallic conduit systems

## Type PA

2



Type PA  
Lightweight Conduit

### Type PA

Lightweight Conduit / Materials: Polyamide (Nylon) 6 / Colour: Black (BL), Grey (GR)

| Part No. | Nominal Conduit Size | NW Conduit Size | Conduit Pitch | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|-----------------|---------------|------------------|-----------------|------------------|-------------|
| PAFL13   | 13mm                 | 10              | Fine          | 13.0mm           | 10.0mm          | 25mm             | 50m         |
| PAFL16   | 16mm                 | 13              | Fine          | 15.8mm           | 11.9mm          | 35mm             | 50m         |
| PAFL21   | 21mm                 | 17              | Fine          | 21.2mm           | 16.8mm          | 45mm             | 50m         |
| PAFL28   | 28mm                 | 23              | Coarse        | 28.5mm           | 22.2mm          | 50mm             | 50m         |
| PAFL34   | 34mm                 | 29              | Coarse        | 34.5mm           | 27.9mm          | 60mm             | 50m         |
| PAFL42   | 42mm                 | 36              | Coarse        | 42.5mm           | 35.2mm          | 65mm             | 25m         |
| PAFL54   | 54mm                 | 48              | Coarse        | 54.5mm           | 46.9mm          | 75mm             | 25m         |

To order quote part number, colour & reel length, e.g. PAFL13/BL/50M

#### Approvals



| IP Rating  | Appropriate Fitting                     | Temperature Range                        | UV Resistance |
|--|---|--|---------------|
| <b>For use with:</b> Adaptalok / ATS / Adaptaring / Adaptaseal |   | Static Applications: -40°C to +120°C     | Very High     |
| IP40   | Adaptaring                              | Moving Applications: -5°C to +120°C      |               |
| IP65   | N/A                                     | <b>Flexibility &amp; Fatigue Life</b>    |               |
| IP66   | Adaptalok, ATS or Adaptaseal            | High Flexibility - High Fatigue Life     |               |
| IP67   | Adaptalok + ALS Seal or ATS, Adaptaseal | <b>Fire Performance &amp; EMI Screen</b> |               |
| IP68   | Adaptalok + ALS Seal or ATS, Adaptaseal | Self Extinguishing                       |               |
| IP69   | N/A                                     | Halogen Free                             |               |



Type PA  
Lightweight Slit Conduit

### Type PA-Slit

Lightweight Slit Conduit / Materials: Polyamide (Nylon) 6 / Colour: Black (BL) Only

| Part No. | Nominal Conduit Size | NW Conduit Size | Conduit Pitch | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|-----------------|---------------|------------------|-----------------|------------------|-------------|
| PAFL13-S | 13mm                 | 10              | Fine          | 13.0mm           | 10.0mm          | 25mm             | 50m         |
| PAFL16-S | 16mm                 | 13              | Fine          | 15.8mm           | 11.9mm          | 35mm             | 50m         |
| PAFL21-S | 21mm                 | 17              | Fine          | 21.2mm           | 16.8mm          | 45mm             | 50m         |
| PAFL28-S | 28mm                 | 23              | Coarse        | 28.5mm           | 22.2mm          | 50mm             | 50m         |
| PAFL34-S | 34mm                 | 29              | Coarse        | 34.5mm           | 27.9mm          | 60mm             | 50m         |
| PAFL42-S | 42mm                 | 36              | Coarse        | 42.5mm           | 35.2mm          | 65mm             | 25m         |
| PAFL54-S | 54mm                 | 48              | Coarse        | 54.5mm           | 46.9mm          | 75mm             | 25m         |

To order quote part number, colour & reel length, e.g. PAFL13-S/BL/50M

#### Approvals



| IP Rating  | Appropriate Fitting | Temperature Range                        | UV Resistance |
|--|---------------------|--|---------------|
| <b>For use with:</b> Adaptalok / ATS / Adaptaring / Adaptaseal |                     | Static Applications: -40°C to +120°C     | Very High     |
| IP40   | N/A                 | Moving Applications: -5°C to +120°C      |               |
| IP65   | N/A                 | <b>Flexibility &amp; Fatigue Life</b>    |               |
| IP66   | N/A                 | High Flexibility - High Fatigue Life     |               |
| IP67   | N/A                 | <b>Fire Performance &amp; EMI Screen</b> |               |
| IP68   | N/A                 | Self Extinguishing                       |               |
| IP69   | N/A                 | Halogen Free                             |               |

# Non-metallic conduit systems

## Type PA



Type PA  
Standard Weight Conduit

### Type PA

**Standard Weight Conduit** / **Materials:** Polyamide (Nylon) 6 / **Colour:** Black (BL), Grey (GR)


| Part No. | Nominal Conduit Size | NW Conduit Size | Conduit Pitch | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length (BL) | (GR) |
|----------|----------------------|-----------------|---------------|------------------|-----------------|------------------|------------------|------|
| PAFS10*  | 10mm                 | 7.5             | Fine          | 10.0mm           | 6.5mm           | 15mm             | 50m              | 50m  |
| PAFS13*  | 13mm                 | 10              | Fine          | 13.0mm           | 9.6mm           | 25mm             | 50m              | 50m  |
| PAFS16   | 16mm                 | 13              | Fine          | 15.8mm           | 11.8mm          | 35mm             | 10/25/50m        | 50m  |
| PAFS21   | 21mm                 | 17              | Fine          | 21.2mm           | 16.5mm          | 45mm             | 10/25/50m        | 50m  |
| PAFS28   | 28mm                 | 23              | Fine          | 28.5mm           | 22.6mm          | 50mm             | 10/25/50m        | 50m  |
| PACS28   | 28mm                 | 23              | Coarse        | 28.5mm           | 21.7mm          | 50mm             | 10/25/50m        | 50m  |
| PAFS34   | 34mm                 | 29              | Fine          | 34.5mm           | 28.8mm          | 60mm             | 10/25/50m        | 50m  |
| PACS34   | 34mm                 | 29              | Coarse        | 34.5mm           | 27.7mm          | 60mm             | 10/25/50m        | 50m  |
| PACS42   | 42mm                 | 36              | Coarse        | 42.5mm           | 35.2mm          | 65mm             | 10/25m           | 25m  |
| PACS54   | 54mm                 | 48              | Coarse        | 54.5mm           | 46.5mm          | 75mm             | 10/25m           | 25m  |
| PACS80   | 80mm                 | 70              | Coarse        | 79.3mm           | 67.0mm          | 160mm            | 10m              | 10m  |
| PACS106  | 106mm                | 95              | Coarse        | 106.0mm          | 91.5mm          | 210mm            | 10m              | 10m  |

To order quote part number, colour & reel length, e.g. PAFS13/BL/50M

\*These parts are not covered by the RU certification

### Approvals



| IP Rating  | Appropriate Fitting                     | Temperature Range   | UV Resistance   |
|--|---|---|---|
| <b>For use with:</b> Adaptalok / ATS / Adapting / Adaptaseal / Jumbo |   | Static Applications: -40°C to +120°C<br>Moving Applications: -5°C to +120°C | Very High   |
| IP40   | Adapting & Jumbo                        | <b>Flexibility &amp; Fatigue Life</b>                                       |   |
| IP65   | Jumbo + SK Seal                         | High Flexibility - High Fatigue Life  |   |
| IP66   | Adaptalok, ATS or Adaptaseal            | <b>Fire Performance &amp; EMI Screen</b>                                    |   |
| IP67   | Adaptalok + ALS Seal or ATS, Adaptaseal | Self Extinguishing  |  |
| IP68   | Adaptalok + ALS Seal or ATS, Adaptaseal | Halogen Free  |   |
| IP69   | Adaptalok + ALS Seal or ATS             |   |   |



Type PA  
Heavyweight Conduit

### Type PA

**Heavyweight Conduit** / **Materials:** Polyamide (Nylon) 6 / **Colour:** Black (BL), Grey (GR)


| Part No. | Nominal Conduit Size | NW Conduit Size | Conduit Pitch | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|-----------------|---------------|------------------|-----------------|------------------|-------------|
| PAFH13*  | 13mm                 | 10              | Fine          | 13.0mm           | 9.0mm           | 35mm             | 50m         |
| PAFH16   | 16mm                 | 13              | Fine          | 15.8mm           | 11.3mm          | 45mm             | 50m         |
| PACH21   | 21mm                 | 17              | Coarse        | 21.2mm           | 14.5mm          | 60mm             | 50m         |
| PACH28   | 28mm                 | 23              | Coarse        | 28.5mm           | 21.3mm          | 70mm             | 50m         |
| PACH34   | 34mm                 | 29              | Coarse        | 34.5mm           | 26.8mm          | 75mm             | 50m         |
| PACH42   | 42mm                 | 36              | Coarse        | 42.5mm           | 34.6mm          | 90mm             | 25m         |
| PACH54   | 54mm                 | 48              | Coarse        | 54.5mm           | 46.0mm          | 95mm             | 25m         |

To order quote part number, colour & reel length, e.g. PAFH13/BL/50M

\*These parts are not covered by the RU certification

### Approvals



| IP Rating  | Appropriate Fitting                     | Temperature Range   | UV Resistance   |
|--|---|---|---|
| <b>For use with:</b> Adaptalok / ATS / Adapting / Adaptaseal |   | Static Applications: -40°C to +120°C<br>Moving Applications: -5°C to +120°C | Very High   |
| IP40   | Adapting                                | <b>Flexibility &amp; Fatigue Life</b>                                       |   |
| IP65   | N/A                                     | Medium Flexibility - Medium Fatigue Life                                    |   |
| IP66   | Adaptalok, ATS or Adaptaseal            | <b>Fire Performance &amp; EMI Screen</b>                                    |   |
| IP67   | Adaptalok + ALS Seal or ATS, Adaptaseal | Self Extinguishing  |  |
| IP68   | Adaptalok + ALS Seal or ATS, Adaptaseal | Halogen Free  |   |
| IP69   | N/A                                     |   |   |

# Non-metallic conduit systems

## Type PF

2



Type PF  
Standard Weight Conduit

### Type PF

**Standard Weight Conduit** / **Materials:** Modified Polyamide 12 / **Colour:** Black (BL) Only

| Part No. | Nominal Conduit Size | NW Conduit Size | Conduit Pitch | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|-----------------|---------------|------------------|-----------------|------------------|-------------|
| PFFS10*  | 10mm                 | 7.5             | Fine          | 10.0mm           | 6.2mm           | 20mm             | 50m         |
| PFFS13*  | 13mm                 | 10              | Fine          | 13.0mm           | 9.9mm           | 30mm             | 50m         |
| PFFS16   | 16mm                 | 13              | Fine          | 15.8mm           | 11.7mm          | 35mm             | 50m         |
| PFFS21   | 21mm                 | 17              | Fine          | 21.2mm           | 16.6mm          | 40mm             | 50m         |
| PFCS28   | 28mm                 | 23              | Coarse        | 28.5mm           | 21.7mm          | 50mm             | 50m         |
| PFCS34   | 34mm                 | 29              | Coarse        | 34.5mm           | 27.7mm          | 60mm             | 25m         |
| PFCS42   | 42mm                 | 36              | Coarse        | 42.5mm           | 35.5mm          | 65mm             | 25m         |
| PFCS54   | 54mm                 | 48              | Coarse        | 54.5mm           | 46.6mm          | 75mm             | 25m         |

To order quote part number, colour & reel length, e.g. PFFS13/BL/50M

\*These parts are not covered by the RU certification

#### Approvals



| IP Rating   | Appropriate Fitting       | Temperature Range                              | UV Resistance |
|---|---------------------------|--|---------------|
| <b>For use with:</b> Adaptalok / ATS / Adapting / ALS |                           | Static Applications: -50°C to +110°C           | Very High     |
| IP40  | Adapting                  | Moving Applications: -45°C to +120°C           |               |
| IP65  | N/A                       |  |               |
| IP66  | ATS, Adaptalok            | <b>Flexibility &amp; Fatigue Life</b>          |               |
| IP67  | ATS, Adaptalok + ALS Seal | Very High Flexibility - Very High Fatigue Life |               |
| IP68  | ATS, Adaptalok + ALS Seal | <b>Fire Performance &amp; EMI Screen</b>       |               |
| IP69  | ATS, Adaptalok + ALS Seal | Self Extinguishing                             |               |
|   |                           | Halogen Free                                   |               |



Type PF  
Heavyweight Conduit

### Type PF

**Heavyweight Conduit** / **Materials:** Modified Polyamide 12 / **Colour:** Black (BL) Only

| Part No. | Nominal Conduit Size | NW Conduit Size | Conduit Pitch | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|-----------------|---------------|------------------|-----------------|------------------|-------------|
| PFFH13*  | 13mm                 | 10              | Fine          | 13.0mm           | 9.7mm           | 40mm             | 50m         |
| PFFH16   | 16mm                 | 13              | Fine          | 15.8mm           | 11.5mm          | 45mm             | 50m         |
| PFCH21   | 21mm                 | 17              | Coarse        | 21.2mm           | 15.3mm          | 50mm             | 50m         |
| PFCH28   | 28mm                 | 23              | Coarse        | 28.5mm           | 21.5mm          | 60mm             | 50m         |
| PFCH34   | 34mm                 | 29              | Coarse        | 34.5mm           | 27.5mm          | 70mm             | 25m         |
| PFCH42   | 42mm                 | 36              | Coarse        | 42.5mm           | 35.5mm          | 75mm             | 25m         |
| PFCH54   | 54mm                 | 48              | Coarse        | 54.5mm           | 46.4mm          | 85mm             | 25m         |

To order quote part number, colour & reel length, e.g. PFFH13/BL/50M

\*These parts are not covered by the RU certification

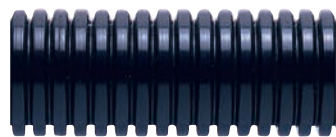
#### Approvals



| IP Rating   | Appropriate Fitting       | Temperature Range                        | UV Resistance |
|---|---------------------------|--|---------------|
| <b>For use with:</b> Adaptalok / ATS / Adapting / ALS |                           | Static Applications: -50°C to +110°C     | Very High     |
| IP40  | Adapting                  | Moving Applications: -45°C to +120°C     |               |
| IP65  | N/A                       |  |               |
| IP66  | ATS, Adaptalok            | <b>Flexibility &amp; Fatigue Life</b>    |               |
| IP67  | ATS, Adaptalok + ALS Seal | High Flexibility - High Fatigue Life     |               |
| IP68  | ATS, Adaptalok + ALS Seal | <b>Fire Performance &amp; EMI Screen</b> |               |
| IP69  | ATS, Adaptalok + ALS Seal | Self Extinguishing                       |               |
|   |                           | Halogen Free                             |               |

# Non-metallic conduit systems

## Type PI



Type PI  
Standard Weight Conduit

### Type PI

**Standard Weight Conduit** / **Materials:** Modified Polyamide 11 / **Colour:** Black (BL), Grey (GR)

| Part No. | Nominal Conduit Size | NW Conduit Size | Conduit Pitch | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length (BL) |
|----------|----------------------|-----------------|---------------|------------------|-----------------|------------------|------------------|
| PIFS10   | 10mm                 | 7.5             | Fine          | 10.0mm           | 6.2mm           | 15mm             | 50m              |
| PIFS13   | 13mm                 | 10              | Fine          | 13.0mm           | 9.9mm           | 25mm             | 50m              |
| PIFS16   | 16mm                 | 13              | Fine          | 15.8mm           | 11.7mm          | 30mm             | 50m              |
| PIFS21   | 21mm                 | 17              | Fine          | 21.2mm           | 16.6mm          | 35mm             | 50m              |
| PICS28   | 28mm                 | 23              | Coarse        | 28.5mm           | 21.7mm          | 45mm             | 50m              |
| PICS34   | 34mm                 | 29              | Coarse        | 34.5mm           | 27.7mm          | 55mm             | 25m              |
| PICS42   | 42mm                 | 36              | Coarse        | 42.5mm           | 35.5mm          | 60mm             | 25m              |
| PICS54   | 54mm                 | 48              | Coarse        | 54.5mm           | 46.6mm          | 70mm             | 25m              |
| PICS80   | 80mm                 | 70              | Coarse        | 79.3mm           | 67.0mm          | 160mm            | 10m              |
| PICS106  | 106mm                | 95              | Coarse        | 106.0mm          | 91.0mm          | 210mm            | 10m              |

To order quote part number, colour & reel length, e.g. PIFS13/BL/50M

### Approvals



| IP Rating  | Appropriate Fitting                     | Temperature Range  | UV Resistance |
|--|---|--|---------------|
| <b>For use with:</b> Adaptalok / ATS / Adapting / Adaptaseal / Jumbo |   | Static Applications: -50°C to +110°C<br>Moving Applications: -45°C to +120°C | Very High     |
| IP40   | Adapting & Jumbo                        |  |               |
| IP65   | Jumbo + SK Seal                         | <b>Flexibility &amp; Fatigue Life</b>  |               |
| IP66   | Adaptalok, ATS or Adaptaseal            | Very High Flexibility - Very High Fatigue Life                               |               |
| IP67   | Adaptalok + ALS Seal or ATS, Adaptaseal | <b>Fire Performance &amp; EMI Screen</b>                                     |               |
| IP68   | Adaptalok + ALS Seal or ATS, Adaptaseal | Self Extinguishing   |               |
| IP69   | Adaptalok + ALS Seal or ATS             | Halogen Free   |               |



Type PI  
Heavyweight Conduit

### Type PI

**Heavyweight Conduit** / **Materials:** Modified Polyamide 11 / **Colour:** Black (BL) Only

| Part No. | Nominal Conduit Size | NW Conduit Size | Conduit Pitch | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|-----------------|---------------|------------------|-----------------|------------------|-------------|
| PIFH13   | 13mm                 | 10              | Fine          | 13.0mm           | 9.7mm           | 30mm             | 50m         |
| PIFH16   | 16mm                 | 13              | Fine          | 15.8mm           | 11.5mm          | 35mm             | 50m         |
| PICH21   | 21mm                 | 17              | Coarse        | 21.2mm           | 15.3mm          | 40mm             | 50m         |
| PICH28   | 28mm                 | 23              | Coarse        | 28.5mm           | 21.5mm          | 50mm             | 50m         |
| PICH34   | 34mm                 | 29              | Coarse        | 34.5mm           | 27.5mm          | 60mm             | 25m         |
| PICH42   | 42mm                 | 36              | Coarse        | 42.5mm           | 35.3mm          | 65mm             | 25m         |
| PICH54   | 54mm                 | 48              | Coarse        | 54.5mm           | 46.4mm          | 75mm             | 25m         |

To order quote part number, colour & reel length, e.g. PIFH13/BL/50M

### Approvals



| IP Rating  | Appropriate Fitting                     | Temperature Range  | UV Resistance |
|--|---|--|---------------|
| <b>For use with:</b> Adaptalok / ATS / Adapting / Adaptaseal |   | Static Applications: -50°C to +110°C<br>Moving Applications: -45°C to +120°C | Very High     |
| IP40   | Adapting                                |  |               |
| IP65   | N/A                                     | <b>Flexibility &amp; Fatigue Life</b>  |               |
| IP66   | Adaptalok, ATS or Adaptaseal            | High Flexibility - Very High Fatigue Life                                    |               |
| IP67   | Adaptalok + ALS Seal or ATS, Adaptaseal | <b>Fire Performance &amp; EMI Screen</b>                                     |               |
| IP68   | Adaptalok + ALS Seal or ATS, Adaptaseal | Self Extinguishing   |               |
| IP69   | N/A                                     | Halogen Free   |               |

# Non-metallic conduit systems

## Type PR & CP

2



Type PR  
Standard Weight Conduit

### Type PR

**Standard Weight Conduit** / **Materials:** Modified Polyamide (Nylon) 6 / **Colour:** Black (BL) Only

| Part No. | Nominal Conduit Size | NW Conduit Size | Conduit Pitch | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|-----------------|---------------|------------------|-----------------|------------------|-------------|
| PRFS13   | 13mm                 | 10              | Fine          | 13.0mm           | 9.4mm           | 35mm             | 50m         |
| PRFS16   | 16mm                 | 13              | Fine          | 15.8mm           | 11.7mm          | 45mm             | 50m         |
| PRFS21   | 21mm                 | 17              | Fine          | 21.2mm           | 16.6mm          | 60mm             | 50m         |
| PRCS21   | 21mm                 | 17              | Coarse        | 21.2mm           | 14.7mm          | 60mm             | 50m         |
| PRCS28   | 28mm                 | 23              | Coarse        | 28.5mm           | 21.7mm          | 70mm             | 50m         |
| PRCS34   | 34mm                 | 29              | Coarse        | 34.5mm           | 27.7mm          | 75mm             | 50m         |
| PRCS42   | 42mm                 | 36              | Coarse        | 42.5mm           | 35.1mm          | 90mm             | 25m         |
| PRCS54   | 54mm                 | 48              | Coarse        | 54.5mm           | 46.6mm          | 95mm             | 25m         |

To order quote part number, colour & reel length, e.g. PRFS13/BL/50M

### Approvals



EN45545-2 HL3 - R22 & R23

| IP Rating  | Appropriate Fitting                | Temperature Range                        | UV Resistance |
|--|------------------------------------|--|---------------|
| <b>For use with:</b> Adaptalok / ATS / Adapting / Adaptaseal |                                    | Static Applications: -40°C to +120°C     | Very High     |
| IP40   | Adapting                           | Moving Applications: -5°C to +120°C      |               |
| IP65   | N/A                                | <b>Flexibility &amp; Fatigue Life</b>    |               |
| IP66   | Adaptalok or Adaptaseal            | High Flexibility - Medium Fatigue Life   |               |
| IP67   | Adaptalok + ALS Seal or Adaptaseal | <b>Fire Performance &amp; EMI Screen</b> |               |
| IP68   | Adaptalok + ALS Seal or Adaptaseal | Self Extinguishing                       |               |
| IP69   | Adaptalok + ALS Seal               | Halogen Free                             |               |



Type CP  
Medium Weight Conduit

### Type CP

**Medium Weight Conduit** / **Materials:** Polyester / **Colour:** Black (BL) Only

| Part No. | Nominal Conduit Size | NW Conduit Size | Conduit Pitch | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|-----------------|---------------|------------------|-----------------|------------------|-------------|
| CPFM13   | 13mm                 | 10              | Fine          | 13.0mm           | 9.5mm           | 25mm             | 50m         |
| CPFM16   | 16mm                 | 13              | Fine          | 15.8mm           | 11.3mm          | 30mm             | 50m         |
| CPFM21   | 21mm                 | 17              | Fine          | 21.2mm           | 16.0mm          | 35mm             | 50m         |
| CPCM28   | 28mm                 | 23              | Coarse        | 28.5mm           | 21.3mm          | 45mm             | 50m         |
| CPCM34   | 34mm                 | 29              | Coarse        | 34.5mm           | 27.2mm          | 55mm             | 50m         |
| CPCM42   | 42mm                 | 36              | Coarse        | 42.5mm           | 34.2mm          | 60mm             | 25m         |
| CPCM54   | 54mm                 | 48              | Coarse        | 54.5mm           | 46.0mm          | 70mm             | 25m         |

To order quote part number, colour & reel length, e.g. CPFM13/BL/50M

### Approvals



| IP Rating                                   | Appropriate Fitting               | Temperature Range                              | UV Resistance |
|---|-----------------------------------|--|---------------|
| <b>For use with:</b> Adaptalok / Adaptaseal |                                   | Static Applications: -50°C to +135°C           | Very High     |
| IP40  | N/A                               | Moving Applications: -25°C to +150°C           |               |
| IP65  | N/A                               | <b>Flexibility &amp; Fatigue Life</b>          |               |
| IP66  | Adaptalok or Adaptaseal           | Very High Flexibility - Very High Fatigue Life |               |
| IP67  | Adaptalok + ALS Seal & Adaptaseal | <b>Fire Performance &amp; EMI Screen</b>       |               |
| IP68  | Adaptalok + ALS Seal & Adaptaseal | Self Extinguishing                             |               |
| IP69  | Adaptalok + ALS Seal              | Halogen Free                                   |               |



# Non-metallic conduit systems

## Type PADL



Type PADL  
Standard Weight Conduit

### Type PADL

**Standard Weight Conduit** / **Materials:** Modified Polyamide (Nylon) 6 / **Colour:** Black (BL) Only

| Part No. | Nominal Conduit Size | NW Conduit Size | Conduit Pitch | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|-----------------|---------------|------------------|-----------------|------------------|-------------|
| PADL16   | 16mm                 | 13              | Coarse        | 15.8mm           | 11.3mm          | 45mm             | 100ft       |
| PADL21   | 21mm                 | 17              | Coarse        | 21.2mm           | 14.5mm          | 60mm             | 100ft       |
| PADL28   | 28mm                 | 23              | Coarse        | 28.5mm           | 22.6mm          | 70mm             | 100ft       |
| PADL34   | 34mm                 | 29              | Coarse        | 34.5mm           | 27.7mm          | 75mm             | 100ft       |
| PADL42   | 42mm                 | 36              | Coarse        | 42.5mm           | 35.2mm          | 80mm             | 100ft       |
| PADL54   | 54mm                 | 48              | Coarse        | 54.5mm           | 46.0mm          | 95mm             | 100ft       |

To order quote part number, colour & reel length, e.g. PADL16/BL/100

### Approvals



| IP Rating                            | Appropriate Fitting  | Temperature Range   | UV Resistance |
|--------------------------------------|----------------------|---|---------------|
| <b>For use with:</b> Adaptalok / ATS |                      | Static Applications: -40°C to +120°C<br>Moving Applications: -18°C to +120°C      | Very High     |
| IP40                                 | N/A                  | <b>Flexibility &amp; Fatigue Life</b><br>Medium Flexibility - Medium Fatigue Life |               |
| IP65                                 | N/A                  |   |               |
| IP66                                 | AL or ATS            | <b>Fire Performance &amp; EMI Screen</b><br>Self Extinguishing<br>Halogen Free    |               |
| IP67                                 | AL + ALS Seal or ATS |   |               |
| IP68                                 | AL + ALS Seal or ATS |   |               |
| IP69                                 | AL + ALS Seal or ATS |   |               |



# Non-metallic conduit systems

## Type A - Adaptalok

2



Type A  
Straight Fitting

### Type A - Adaptalok

**Straight Fitting - Fixed External Male Thread** / For insertion into knockouts using a locknut. Locknut supplied with METRIC THREAD ONLY

**Materials:** Polyamide (Nylon) 66 / **Colour:** Black (BL), Grey (GR)

| Part No.    | Nominal Conduit Size | Metric Thread | Part No.     | Nominal Conduit Size | PG Thread |
|-------------|----------------------|---------------|--------------|----------------------|-----------|
| AL10/M12/A* | 10mm                 | M16           | AL10/PG7/A*  | 10mm                 | PG7       |
|             |                      |               | AL10/PG9/A*  | 10mm                 | PG9       |
| AL13/M16/A* | 13mm                 | M16           | AL13/PG9/A*  | 13mm                 | PG9       |
| AL13/M20/A* | 13mm                 | M20           | AL13/PG11/A* | 13mm                 | PG11      |
|             |                      |               | AL13/PG13/A* | 13mm                 | PG13,5    |
| AL16/M16/A  | 16mm                 | M16           | AL16/PG9/A   | 16mm                 | PG9       |
| AL16/M20/A  | 16mm                 | M20           | AL16/PG11/A  | 16mm                 | PG11      |
|             |                      |               | AL16/PG13/A  | 16mm                 | PG13,5    |
|             |                      |               | AL16/PG16/A  | 16mm                 | PG16      |
| AL21/M20/A  | 21mm                 | M20           | AL21/PG11/A  | 21mm                 | PG11      |
|             |                      |               | AL21/PG13/A  | 21mm                 | PG13,5    |
| AL21/M25/A  | 21mm                 | M25           | AL21/PG16/A  | 21mm                 | PG16      |
| AL28/M25/A  | 28mm                 | M25           | AL28/PG21/A  | 28mm                 | PG21      |
| AL28/M32/A  | 28mm                 | M32           |              |                      |           |
| AL34/M32/A  | 34mm                 | M32           | AL34/PG29/A  | 34mm                 | PG29      |
| AL34/M40/A  | 34mm                 | M40           |              |                      |           |
| AL42/M40/A  | 42mm                 | M40           | AL42/PG36/A  | 42mm                 | PG36      |
| AL42/M50/A  | 42mm                 | M50           |              |                      |           |
| AL54/M50/A  | 54mm                 | M50           | AL54/PG48/A  | 54mm                 | PG48      |
| AL54/M63/A  | 54mm                 | M63           |              |                      |           |

| Part No.      | Nominal Conduit Size | PF Thread | Part No.    | Nominal Conduit Size | NPT Thread |
|---------------|----------------------|-----------|-------------|----------------------|------------|
| AL10/PF025/A* | 10mm                 | 1/4"      | AL13/038/A* | 13mm                 | 3/8"       |
| AL13/PF038/A* | 13mm                 | 3/8"      | AL16/038/A  | 16mm                 | 3/8"       |
| AL16/PF038/A  | 16mm                 | 3/8"      | AL16/050/A  | 16mm                 | 1/2"       |
| AL16/PF050/A  | 16mm                 | 1/2"      | AL21/050/A  | 21mm                 | 1/2"       |
| AL21/PF050/A  | 21mm                 | 1/2"      | AL28/075/A  | 28mm                 | 3/4"       |
| AL28/PF075/A  | 28mm                 | 3/4"      | AL34/100/A  | 34mm                 | 1"         |
| AL34/PF100/A  | 34mm                 | 1"        | AL42/125/A  | 42mm                 | 1 1/4"     |
| AL42/PF125/A  | 42mm                 | 1 1/4"    | AL54/150/A  | 54mm                 | 1 1/2"     |
| AL54/PF150/A  | 54mm                 | 1 1/2"    |             |                      |            |
| AL54/PF200/A  | 54mm                 | 2"        |             |                      |            |

To order quote part number & body colour, e.g. AL10/M12/A/BL

\*These parts are not covered by the RU certification

#### Approvals



#### IP Rating

#### Appropriate Conduit

For use with: Type PA / PI / CP / PR / PF

|      |                |
|------|----------------|
| IP66 | Yes            |
| IP67 | Yes + ALS Seal |
| IP68 | Yes + ALS Seal |
| IP69 | Yes + ALS Seal |

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics



# Non-metallic conduit systems

## Type C90 - Adaptalok



Type C90  
90° Elbow Fitting

### Type C90 - Adaptalok

**90° Elbow Fitting - Fixed External Male Thread** / For insertion into knockouts using a locknut. Locknut supplied with METRIC THREAD ONLY

**Materials:** Polyamide (Nylon) 66 / **Colour:** Black (BL), Grey (GR)

| Part No.      | Nominal Conduit Size | Metric Thread | Part No.      | Nominal Conduit Size | PG Thread |
|---------------|----------------------|---------------|---------------|----------------------|-----------|
| AL10/M12/C90* | 10mm                 | M12           | AL10/PG7/C90* | 10mm                 | PG7       |
| AL13/M16/C90* | 13mm                 | M16           | AL13/PG9/C90* | 13mm                 | PG9       |
| AL16/M16/C90  | 16mm                 | M16           | AL16/PG9/C90  | 16mm                 | PG9       |
| AL16/M20/C90  | 16mm                 | M20           | AL16/PG11/C90 | 16mm                 | PG11      |
|               |                      |               | AL16/PG13/C90 | 16mm                 | PG13,5    |
| AL21/M20/C90  | 21mm                 | M20           | AL21/PG13/C90 | 21mm                 | PG13,5    |
|               |                      |               | AL21/PG16/C90 | 21mm                 | PG16      |
| AL28/M25/C90  | 28mm                 | M25           | AL28/PG21/C90 | 28mm                 | PG21      |
| AL34/M32/C90  | 34mm                 | M32           | AL34/PG29/C90 | 34mm                 | PG29      |
| AL42/M40/C90  | 42mm                 | M40           | AL42/PG36/C90 | 42mm                 | PG36      |
| AL54/M50/C90  | 54mm                 | M50           | AL54/PG48/C90 | 54mm                 | PG48      |
| AL54/M63/C90  | 54mm                 | M63           |               |                      |           |

| Part No.        | Nominal Conduit Size | PF Thread | Part No.      | Nominal Conduit Size | NPT Thread |
|-----------------|----------------------|-----------|---------------|----------------------|------------|
| AL13/PF038/C90* | 13mm                 | 3/8"      | AL13/038/C90* | 13mm                 | 3/8"       |
| AL16/PF038/C90  | 16mm                 | 3/8"      | AL16/038/C90  | 16mm                 | 3/8"       |
| AL16/PF050/C90  | 16mm                 | 1/2"      | AL16/050/C90  | 16mm                 | 1/2"       |
| AL21/PF050/C90  | 21mm                 | 1/2"      | AL21/050/C90  | 21mm                 | 1/2"       |
| AL28/PF075/C90  | 28mm                 | 3/4"      | AL28/075/C90  | 28mm                 | 3/4"       |
| AL34/PF100/C90  | 34mm                 | 1"        | AL34/100/C90  | 34mm                 | 1"         |
| AL42/PF125/C90  | 42mm                 | 1 1/4"    | AL42/125/C90  | 42mm                 | 1 1/4"     |
| AL54/PF150/C90  | 54mm                 | 1 1/2"    | AL54/150/C90  | 54mm                 | 1 1/2"     |
| AL54/PF200/C90  | 54mm                 | 2"        | AL54/200/C90  | 54mm                 | 2"         |

To order quote part number & body colour, e.g. AL16/M20/C90/BL

\*These parts are not covered by the RU certification

### Approvals



| IP Rating  | Appropriate Conduit | Temperature Range                    |
|--|---------------------|--------------------------------------|
| <b>For use with:</b> Type PA / PI / CP / PR / PF |                     | Static Applications: -50°C to +120°C |
| IP66   | Yes                 | Moving Applications: -45°C to +120°C |
| IP67   | Yes + ALS Seal      |                                      |
| IP68   | Yes + ALS Seal      |                                      |
| IP69   | Yes + ALS Seal      |                                      |

# Non-metallic conduit systems

## Type 45 & Push-in - Adaptalok

2



Type 45  
45° Elbow Fitting

### Type 45 - Adaptalok

**45° Elbow Fitting - Fixed External Male Thread** / For insertion into knockouts using a locknut. Locknut supplied with METRIC THREAD ONLY

**Materials:** Polyamide (Nylon) 66 / **Colour:** Black (BL), Grey (GR)

| Part No.     | Nominal Conduit Size | Metric Thread | Part No.     | Nominal Conduit Size | PG Thread |
|--------------|----------------------|---------------|--------------|----------------------|-----------|
| AL13/M16/45* | 13mm                 | M16           | AL13/PG9/45* | 13mm                 | PG9       |
| AL16/M16/45  | 16mm                 | M16           | AL16/PG11/45 | 16mm                 | PG11      |
| AL16/M20/45  | 16mm                 | M20           | AL16/PG13/45 | 16mm                 | PG13,5    |
| AL21/M20/45  | 21mm                 | M20           | AL21/PG13/45 | 21mm                 | PG13,5    |
|              |                      |               | AL21/PG16/45 | 21mm                 | PG16      |
| AL28/M25/45  | 28mm                 | M25           | AL28/PG21/45 | 28mm                 | PG21      |
| AL34/M32/45  | 34mm                 | M32           | AL34/PG29/45 | 34mm                 | PG29      |
| AL42/M50/45  | 42mm                 | M40           | AL42/PG36/45 | 42mm                 | PG36      |
| AL54/M50/45  | 54mm                 | M50           | AL54/PG48/45 | 54mm                 | PG48      |
| AL54/M63/45  | 54mm                 | M63           |              |                      |           |

To order quote part number & body colour, e.g. AL21/M20/45/BL

\*These parts are not covered by the RU certification

#### Approvals



| IP Rating  | Appropriate Conduit | Temperature Range                    |
|--|---------------------|--------------------------------------|
| <b>For use with:</b> Type PA / PI / CP / PR / PF |                     |                                      |
| IP66   | Yes                 | Static Applications: -50°C to +120°C |
| IP67   | Yes + ALS Seal      | Moving Applications: -45°C to +120°C |
| IP68   | Yes + ALS Seal      |                                      |
| IP69   | Yes + ALS Seal      |                                      |



Push-in  
Straight Fitting

### Push-in - Adaptalok

**Straight Fitting** / Inserts into a 20mm knockout, panel thickness up to 4mm, no locknut required

**Materials:** Polyamide (Nylon) 66 / **Colour:** Black (BL), Grey (GR)

| Part No.    | Nominal Conduit Size |
|-------------|----------------------|
| AL16/KM20/A | 16mm                 |
| AL21/KM20/A | 21mm                 |

To order quote part number & body colour, e.g. AL21/KM20/A/BL

#### Approvals



| IP Rating  | Appropriate Conduit | Temperature Range                    |
|--|---------------------|--------------------------------------|
| <b>For use with:</b> Type PA / PI / CP / PR / PF |                     |                                      |
| IP40   | Yes                 | Static Applications: -50°C to +120°C |
| IP66   | N/A                 | Moving Applications: -45°C to +120°C |
| IP67   | N/A                 |                                      |
| IP68   | N/A                 |                                      |
| IP69   | N/A                 |                                      |

# Non-metallic conduit systems

## 3-Way Coupler & Insert Seal - Adaptalok



3-Way Coupler  
3-Way PA66 Fitting

### 3-Way Coupler - Adaptalok

**3-Way PA66 Fitting** / For coupling three corrugated flexible conduits

**Materials:** Polyamide (Nylon) 66 / **Colour:** Black (BL), Grey (GR)

| Part No.   | Nominal Conduit Size Combination |
|------------|----------------------------------|
| AL131010/Y | 13x10x10mm                       |
| AL161313/Y | 16x13x13mm                       |
| AL211616/Y | 21x16x16mm                       |
| AL282121/Y | 28x21x21mm                       |

To order quote part number & body colour, e.g. AL131010/Y/BL

#### Approvals



| IP Rating   | Appropriate Conduit | Temperature Range                    |
|---|---------------------|--------------------------------------|
| <b>For use with:</b> Type PA / PI / CP / PR / PF / PK |                     | Static Applications: -50°C to +120°C |
| IP66  | Yes                 | Moving Applications: -45°C to +120°C |
| IP67  | Yes + ALS Seal      |                                      |
| IP68  | Yes + ALS Seal      |                                      |
| IP69  | Yes + ALS Seal      |                                      |



Insert Seal  
IP67/68/69k Insert Seal

### Insert Seal - Adaptalok

**IP67/68/69k Insert Seal** / Suitable for standard weight PA/PI/PR conduit (Black or Grey)

**Materials:** Thermoplastic Elastomer / **Colour:** Yellow (Y) Only

| Part No. | Conduit Pitch |
|----------|---------------|
| ALS13/F  | Fine          |
| ALS16/F  | Fine          |
| ALS21/F  | Fine          |
| ALS28/C  | Coarse        |
| ALS34/C  | Coarse        |
| ALS42/C  | Coarse        |
| ALS54/C  | Coarse        |

To order quote part number, e.g. ALS13/F

Note: Seal needs to be inserted into the appropriate conduit to upgrade fitting system

#### Approvals



| IP Rating   | Appropriate Conduit  | Temperature Range                    |
|---|----------------------|--------------------------------------|
| <b>For use with:</b> Type PA / PI / CP / PR / PF / PK |                      | Static Applications: -50°C to +120°C |
| IP66  | N/A                  | Moving Applications: -45°C to +120°C |
| IP67  | Yes                  |                                      |
| IP68  | Yes (1.1 bar 35mins) |                                      |
| IP69  | Yes (DIN 40050)      |                                      |

# Non-metallic conduit systems

## Type FL/A, FL/C90 & FL/90 - Adaptalok

2



Type FL/A  
Straight Panel Mounting  
Swivel Flange

### Type FL/A - Adaptalok

Straight Panel Mounting Swivel Flange / With integral face seal

Materials: Polyamide (Nylon) 66 / Colour: Black (BL), Grey (GR)

| Part No.  | Nominal Conduit Size |
|-----------|----------------------|
| AL16/FL/A | 16mm                 |
| AL21/FL/A | 21mm                 |
| AL28/FL/A | 28mm                 |
| AL54/FL/A | 54mm                 |

To order quote part number & body colour, e.g. AL16/FL/A/BL

#### Approvals



| IP Rating  | Appropriate Conduit | Temperature Range  |
|--|---------------------|--|
| <b>For use with:</b> Type PA / PI / CP / PR / PF |                     |  |
| IP66   | Yes                 | Static Applications: -50°C to +120°C<br>Moving Applications: -45°C to +120°C |
| IP67   | Yes + ALS Seal      | <b>Fitting Characteristics</b>   |
| IP68   | Yes + ALS Seal      |  |
| IP69   | Yes + ALS Seal      |  |



Type FL/C90  
90° Elbow Body

### Type FL/C90 - Adaptalok

90° Elbow Body - Panel Mount Swivel Flange / For panel mounting via 2 hole fixing & integral face seal

Materials: Polyamide (Nylon) 66 / Colour: Black (BL), Grey (GR)

| Part No.    | Nominal Conduit Size |
|-------------|----------------------|
| AL13/FL/C90 | 13mm                 |
| AL16/FL/C90 | 16mm                 |
| AL21/FL/C90 | 21mm                 |
| AL28/FL/C90 | 28mm                 |

To order quote part number & body colour, e.g. AL13/FL/C90/BL



Type FL/90  
90° Elbow Fitting

### Type FL/90 - Adaptalok

90° Elbow Fitting - Panel Mount Flange / For panel mounting via 4 hole fixing & integral face seal

Materials: Polyamide (Nylon) 66 / Colour: Black (BL), Grey (GR)

| Part No.   | Nominal Conduit Size |
|------------|----------------------|
| AL34/FL/90 | 34mm                 |
| AL42/FL/90 | 42mm                 |
| AL54/FL/90 | 54mm                 |

To order quote part number & body colour, e.g. AL34/FL/C90/BL

#### Approvals



| IP Rating  | Appropriate Conduit | Temperature Range  |
|--|---------------------|--|
| <b>For use with:</b> Type PA / PI / CP / PR / PF |                     |  |
| IP66   | Yes                 | Static Applications: -50°C to +120°C<br>Moving Applications: -45°C to +120°C |
| IP67   | Yes + ALS Seal      | <b>Fitting Characteristics (FLC/90 ONLY)</b>                                 |
| IP68   | Yes + ALS Seal      |  |
| IP69   | Yes + ALS Seal      |  |

# Non-metallic conduit systems

## Type FL/45 & Swivel Coupler - Adaptalok



Type FL/45  
45° Panel Mounting Swivel Flange

### Type FL/45 - Adaptalok

45° Panel Mounting Swivel Flange / With integral face seal


**Materials:** Polyamide (Nylon) 66 / **Colour:** Black (BL), Grey (GR)

| Part No.   | Nominal Conduit Size |
|------------|----------------------|
| AL16/FL/45 | 16mm                 |
| AL21/FL/45 | 21mm                 |
| AL28/FL/45 | 28mm                 |
| AL54/FL/45 | 54mm                 |

To order quote part number & body colour, e.g. AL16/FL/45/BL

#### Approvals



| IP Rating  | Appropriate Conduit | Temperature Range  |
|--|---------------------|--|
| <b>For use with:</b> Type PA / PI / CP / PR / PF |                     | Static Applications: -50°C to +120°C   |
| IP66   | Yes                 | Moving Applications: -45°C to +120°C   |
| IP67   | Yes + ALS Seal      | <b>Fitting Characteristics</b>  |
| IP68   | Yes + ALS Seal      |  |
| IP69   | Yes + ALS Seal      |  |



Swivel Coupler  
Straight PA66 Body Swivel Coupler

### Swivel Coupler - Adaptalok

Straight PA66 Body Swivel Coupler / For coupling two corrugated flexible conduits


**Materials:** Polyamide (Nylon) 66 + Aluminium / **Colour:** Black (BL) Only

| Part No.    | Nominal Conduit Size |
|-------------|----------------------|
| AL13/A/U/BL | 13mm                 |
| AL16/A/U/BL | 16mm                 |
| AL21/A/U/BL | 21mm                 |
| AL28/A/U/BL | 28mm                 |
| AL34/A/U/BL | 34mm                 |
| AL42/A/U/BL | 42mm                 |
| AL54/A/U/BL | 54mm                 |

To order quote part number, e.g. AL13/A/U/BL

#### Approvals



| IP Rating  | Appropriate Conduit | Temperature Range  |
|--|---------------------|--|
| <b>For use with:</b> Type PA / PI / CP / PR / PF |                     | Static Applications: -50°C to +120°C   |
| IP66   | Yes                 | Moving Applications: -45°C to +120°C   |
| IP67   | Yes + ALS Seal      | <b>Fitting Characteristics</b>  |
| IP68   | Yes + ALS Seal      |  |
| IP69   | Yes + ALS Seal      |  |

# Non-metallic conduit systems

## Type SA & CS90 - Adapталок

2



Type SA  
Straight Fitting

### Type SA - Adapталок

**Straight Fitting - Swivel External Male Thread** / For insertion into threaded entries & knockouts using a locknut. Order locknut separately

**Materials:** Polyamide (Nylon) 66, Nickel Plated Brass Thread / **Colour:** Black (BL), Grey (GR)

| Part No.     | Nominal Conduit Size | Metric Thread | Part No.     | Nominal Conduit Size | PG Thread |
|--------------|----------------------|---------------|--------------|----------------------|-----------|
| AL13/M16/SA* | 13mm                 | M16           | AL13/PG9/SA* | 13mm                 | PG9       |
| AL16/M16/SA  | 16mm                 | M16           | AL16/PG11/SA | 16mm                 | PG11      |
| AL21/M20/SA  | 21mm                 | M20           | AL21/PG13/SA | 21mm                 | PG13,5    |
|              |                      |               | AL21/PG16/SA | 21mm                 | PG16      |
| AL28/M25/SA  | 28mm                 | M25           | AL28/PG21/SA | 28mm                 | PG21      |
| AL34/M32/SA  | 34mm                 | M32           | AL34/PG29/SA | 34mm                 | PG29      |
| AL42/M40/SA  | 42mm                 | M40           | AL42/PG36/SA | 42mm                 | PG36      |
| AL54/M50/SA  | 54mm                 | M50           | AL54/PG48/SA | 54mm                 | PG48      |
| AL54/M63/SA  | 54mm                 | M63           |              |                      |           |

To order quote part number & body colour, e.g. AL13/M16/SA/BL. NPT also available

\*These parts are not covered by the RU certification

#### Approvals



#### IP Rating

#### Appropriate Conduit

**For use with:** Type PA / PI / CP / PR / PF

|      |                |
|------|----------------|
| IP66 | Yes            |
| IP67 | Yes + ALS Seal |
| IP68 | Yes + ALS Seal |
| IP69 | Yes + ALS Seal |

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics



Type CS90  
90° Elbow Fitting

### Type CS90 - Adapталок

**90° Elbow Fitting - Swivel External Male Thread** / For insertion into threaded entries & knockouts using a locknut. Order locknut separately

**Materials:** Polyamide (Nylon) 66, Nickel Plated Brass Thread / **Colour:** Black (BL), Grey (GR)

| Part No.       | Nominal Conduit Size | Metric Thread | Part No.       | Nominal Conduit Size | PG Thread |
|----------------|----------------------|---------------|----------------|----------------------|-----------|
| AL13/M16/CS90* | 13mm                 | M16           | AL13/PG9/CS90* | 13mm                 | PG9       |
| AL16/M16/CS90  | 16mm                 | M16           | AL16/PG11/CS90 | 16mm                 | PG11      |
| AL21/M20/CS90  | 21mm                 | M20           | AL21/PG13/CS90 | 21mm                 | PG13,5    |
|                |                      |               | AL21/PG16/CS90 | 21mm                 | PG16      |
| AL28/M25/CS90  | 28mm                 | M25           | AL28/PG21/CS90 | 28mm                 | PG21      |
| AL34/M32/CS90  | 34mm                 | M32           | AL34/PG29/CS90 | 34mm                 | PG29      |
| AL42/M40/CS90  | 42mm                 | M40           | AL42/PG36/CS90 | 42mm                 | PG36      |
| AL54/M50/CS90  | 54mm                 | M50           | AL54/PG48/CS90 | 54mm                 | PG48      |
| AL54/M63/CS90  | 54mm                 | M63           |                |                      |           |

To order quote part number & body colour, e.g. AL13/M16/CS90/BL. NPT also available

\*These parts are not covered by the RU certification

#### Approvals



#### IP Rating

#### Appropriate Conduit

**For use with:** Type PA / PI / CP / PR / PF

|      |                |
|------|----------------|
| IP66 | Yes            |
| IP67 | Yes + ALS Seal |
| IP68 | Yes + ALS Seal |
| IP69 | Yes + ALS Seal |

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics





# Non-metallic conduit systems

## Type S45 & SFA - Adaptalok



Type S45  
45° Elbow Body

### Type S45 - Adaptalok

**45° Elbow Body - Swivel External Male Thread** / For insertion into threaded entries & knockouts using a locknut. Order locknut separately

**Materials:** Polyamide (Nylon) 66, Nickel Plated Brass Thread / **Colour:** Black (BL), Grey (GR)

| Part No.      | Nominal Conduit Size | Metric Thread | Part No.      | Nominal Conduit Size | PG Thread |
|---------------|----------------------|---------------|---------------|----------------------|-----------|
| AL13/M16/S45* | 13mm                 | M16           | AL13/PG9/S45* | 13mm                 | PG9       |
| AL16/M16/S45  | 16mm                 | M16           | AL16/PG11/S45 | 16mm                 | PG11      |
| AL21/M20/S45  | 21mm                 | M20           | AL21/PG13/S45 | 21mm                 | PG13,5    |
|               |                      |               | AL21/PG16/S45 | 21mm                 | PG16      |
| AL28/M25/S45  | 28mm                 | M25           | AL28/PG21/S45 | 28mm                 | PG21      |
| AL34/M32/S45  | 34mm                 | M32           | AL34/PG29/S45 | 34mm                 | PG29      |
| AL42/M40/S45  | 42mm                 | M40           | AL42/PG36/S45 | 42mm                 | PG36      |
| AL54/M50/S45  | 54mm                 | M50           | AL54/PG48/S45 | 54mm                 | PG48      |
| AL54/M63/S45  | 54mm                 | M63           |               |                      |           |

To order quote part number & body colour, e.g. AL13/M16/S45/BL. NPT also available

\*These parts are not covered by the RU certification

#### Approvals



| IP Rating  | Appropriate Conduit | Temperature Range                    |
|--|---------------------|--------------------------------------|
| <b>For use with:</b> Type PA / PI / CP / PR / PF |                     |                                      |
| IP66   | Yes                 | Static Applications: -50°C to +120°C |
| IP67   | Yes + ALS Seal      | Moving Applications: -45°C to +120°C |
| IP68   | Yes + ALS Seal      | <b>Fitting Characteristics</b>       |
| IP69   | Yes + ALS Seal      |                                      |



Type SFA  
Straight Body

### Type SFA - Adaptalok

**Straight Body - Swivel Internal Female Thread** / For attaching to external threads & other fittings

**Materials:** Polyamide (Nylon) 66, Nickel Plated Brass Thread / **Colour:** Black (BL), Grey (GR)

| Part No.     | Nominal Conduit Size | Metric Thread | Part No.      | Nominal Conduit Size | PG Thread |
|--------------|----------------------|---------------|---------------|----------------------|-----------|
| AL13/M16/SFA | 13mm                 | M16           | AL13/PG9/SFA  | 13mm                 | PG9       |
| AL16/M16/SFA | 16mm                 | M16           | AL16/PG11/SFA | 16mm                 | PG11      |
| AL21/M20/SFA | 21mm                 | M20           | AL21/PG13/SFA | 21mm                 | PG13,5    |
|              |                      |               | AL21/PG16/SFA | 21mm                 | PG16      |
| AL28/M25/SFA | 28mm                 | M25           | AL28/PG21/SFA | 28mm                 | PG21      |
| AL34/M32/SFA | 34mm                 | M32           | AL34/PG29/SFA | 34mm                 | PG29      |
| AL42/M40/SFA | 42mm                 | M40           | AL42/PG36/SFA | 42mm                 | PG36      |
| AL54/M50/SFA | 54mm                 | M50           | AL54/PG48/SFA | 54mm                 | PG48      |
| AL54/M63/SFA | 54mm                 | M63           |               |                      |           |

To order quote part number & body colour, e.g. AL13/M16/SFA/BL

NPT also available

#### Approvals



| IP Rating  | Appropriate Conduit | Temperature Range                    |
|--|---------------------|--------------------------------------|
| <b>For use with:</b> Type PA / PI / CP / PR / PF |                     |                                      |
| IP66   | Yes                 | Static Applications: -50°C to +120°C |
| IP67   | Yes + ALS Seal      | Moving Applications: -45°C to +120°C |
| IP68   | Yes + ALS Seal      | <b>Fitting Characteristics</b>       |
| IP69   | Yes + ALS Seal      |                                      |

# Non-metallic conduit systems

## Type CSF90 & SF45 - Adaptalok

2



Type CSF90  
90° Elbow Fitting

### Type CSF90 - Adaptalok

90° Elbow Fitting - Swivel Internal Female Thread / For attachment to external threads & other fittings

**Materials:** Polyamide (Nylon) 66, Nickel Plated Brass Thread / **Colour:** Black (BL), Grey (GR)

| Part No.       | Nominal Conduit Size | Metric Thread | Part No.        | Nominal Conduit Size | PG Thread |
|----------------|----------------------|---------------|-----------------|----------------------|-----------|
| AL13/M16/CSF90 | 13mm                 | M16           | AL13/PG9/CSF90  | 13mm                 | PG9       |
| AL16/M16/CSF90 | 16mm                 | M16           | AL16/PG11/CSF90 | 16mm                 | PG11      |
| AL21/M20/CSF90 | 21mm                 | M20           | AL21/PG13/CSF90 | 16mm                 | PG13,5    |
|                |                      |               | AL21/PG16/CSF90 | 21mm                 | PG16      |
| AL28/M25/CSF90 | 28mm                 | M25           | AL28/PG21/CSF90 | 28mm                 | PG21      |
| AL34/M32/CSF90 | 34mm                 | M32           | AL34/PG29/CSF90 | 34mm                 | PG29      |
| AL42/M40/CSF90 | 42mm                 | M40           | AL42/PG36/CSF90 | 42mm                 | PG36      |
| AL54/M50/CSF90 | 54mm                 | M50           | AL54/PG48/CSF90 | 54mm                 | PG48      |

To order quote part number & body colour, e.g. AL13/M16/CSF90/BL  
NPT also available

#### Approvals



#### IP Rating

#### Appropriate Conduit

#### Temperature Range

**For use with:** Type PA / PI / CP / PR / PF

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

|      |                |
|------|----------------|
| IP66 | Yes            |
| IP67 | Yes + ALS Seal |
| IP68 | Yes + ALS Seal |
| IP69 | Yes + ALS Seal |

#### Fitting Characteristics



Type SF45  
45° Elbow Fitting

### Type SF45 - Adaptalok

45° Elbow Fitting - Swivel Internal Female Thread / For attachment to external threads & other fittings

**Materials:** Polyamide (Nylon) 66, Nickel Plated Brass Thread / **Colour:** Black (BL), Grey (GR)

| Part No.      | Nominal Conduit Size | Metric Thread | Part No.       | Nominal Conduit Size | PG Thread |
|---------------|----------------------|---------------|----------------|----------------------|-----------|
| AL13/M16/SF45 | 13mm                 | M16           | AL13/PG9/SF45  | 13mm                 | PG9       |
| AL16/M16/SF45 | 16mm                 | M16           | AL16/PG11/SF45 | 16mm                 | PG11      |
| AL21/M20/SF45 | 21mm                 | M20           | AL21/PG13/SF45 | 16mm                 | PG13,5    |
|               |                      |               | AL21/PG16/SF45 | 21mm                 | PG16      |
| AL28/M25/SF45 | 28mm                 | M25           | AL28/PG21/SF45 | 28mm                 | PG21      |
| AL34/M32/SF45 | 34mm                 | M32           | AL34/PG29/SF45 | 42mm                 | PG29      |
| AL42/M40/SF45 | 40mm                 | M40           | AL42/PG36/SF45 | 48mm                 | PG36      |
| AL54/M50/SF45 | 50mm                 | M50           | AL54/PG48/SF45 | 54mm                 | PG48      |
| AL54/M63/SF45 | 63mm                 | M63           |                |                      |           |

To order quote part number & body colour, e.g. AL13/M16/SF90/BL  
NPT also available

#### Approvals



#### IP Rating

#### Appropriate Conduit

#### Temperature Range

**For use with:** Type PA / PI / CP / PR / PF

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

|      |                |
|------|----------------|
| IP66 | Yes            |
| IP67 | Yes + ALS Seal |
| IP68 | Yes + ALS Seal |
| IP69 | Yes + ALS Seal |

#### Fitting Characteristics



# Non-metallic conduit systems

## UNEF Type A



UNEF Type A  
Straight Body

### UNEF Type A - Adaptalok

**Straight Body - Swivel Internal Female Thread** / For coupling to UNEF circular connectors

**Materials:** Polyamide (Nylon) 66 & Aluminium / **Colour:** Black (BL) Only

| Part No.    | Nominal Conduit Size | Connector UNEF Thread | Part No.    | Nominal Conduit Size | Connector UNEF Thread |
|-------------|----------------------|-----------------------|-------------|----------------------|-----------------------|
| AL13/U063/A | 13mm                 | 5/8" - 24             | AL21/U144/A | 21mm                 | 1 7/16" - 18          |
| AL13/U075/A | 13mm                 | 3/4" - 20             | AL21/U175/A | 21mm                 | 1 3/4" - 18           |
| AL13/U088/A | 13mm                 | 7/8" - 20             | AL28/U088/A | 28mm                 | 7/8" - 20             |
| AL16/U063/A | 16mm                 | 5/8" - 24             | AL28/U094/A | 28mm                 | 15/16" - 20           |
| AL16/U075/A | 16mm                 | 3/4" - 20             | AL28/U100/A | 28mm                 | 1" - 20               |
| AL16/U081/A | 16mm                 | 13/16" - 20           | AL28/U119/A | 28mm                 | 1 3/16" - 18          |
| AL16/U088/A | 16mm                 | 7/8" - 20             | AL28/U138/A | 28mm                 | 1 3/8" - 18           |
| AL16/U094/A | 16mm                 | 15/16" - 20           | AL28/U144/A | 28mm                 | 1 7/16" - 18          |
| AL16/U100/A | 16mm                 | 1" - 20               | AL28/U175/A | 28mm                 | 1 3/4" - 18           |
| AL16/U119/A | 16mm                 | 1 3/16" - 18          | AL28/U200/A | 28mm                 | 2" - 16               |
| AL16/U131/A | 16mm                 | 1 5/16" - 18          | AL28/U225/A | 28mm                 | 2 1/4" - 16           |
| AL21/U075/A | 21mm                 | 3/4" - 20             | AL34/U100/A | 34mm                 | 1" - 20               |
| AL21/U088/A | 21mm                 | 7/8" - 20             | AL34/U119/A | 34mm                 | 1 3/16" - 18          |
| AL21/U094/A | 21mm                 | 15/16" - 20           | AL34/U144/A | 34mm                 | 1 7/16" - 18          |
| AL21/U100/A | 21mm                 | 1" - 20               | AL34/U175/A | 34mm                 | 1 3/4" - 18           |
| AL21/U113/A | 21mm                 | 1 1/8" - 18           | AL34/U200/A | 34mm                 | 2" - 16               |
| AL21/U119/A | 21mm                 | 1 3/16" - 18          | AL42/U175/A | 42mm                 | 1 3/4" - 18           |
| AL21/U131/A | 21mm                 | 1 5/16" - 18          | AL42/U200/A | 42mm                 | 2" - 16               |
| AL21/U138/A | 21mm                 | 1 3/8" - 18           |             |                      |                       |

To order quote part number, e.g. AL13/U063/A and add 000620

#### Approvals



#### IP Rating

#### Appropriate Conduit

**For use with:** Type PA / PI / CP / PR / PF

|      |                |
|------|----------------|
| IP66 | Yes            |
| IP67 | Yes + ALS Seal |
| IP68 | Yes + ALS Seal |
| IP69 | Yes + ALS Seal |

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics



# Non-metallic conduit systems

## UNEF Type C90 - Adaptalok

2



UNEF Type C90  
90° Elbow Body

### UNEF Type C90 - Adaptalok

90° Elbow Body - Swivel Internal Female Thread / For coupling to UNEF circular connectors

**Materials:** Polyamide (Nylon) 66 & Aluminium / **Colour:** Black (BL) Only

| Part No.      | Nominal Conduit Size | Connector UNEF Thread | Part No.      | Nominal Conduit Size | Connector UNEF Thread |
|---------------|----------------------|-----------------------|---------------|----------------------|-----------------------|
| AL13/U063/C90 | 13mm                 | 5/8" - 24             | AL21/U144/C90 | 21mm                 | 1 7/16" - 18          |
| AL13/U075/C90 | 13mm                 | 3/4" - 20             | AL21/U175/C90 | 21mm                 | 1 3/4" - 18           |
| AL13/U088/C90 | 13mm                 | 7/8" - 20             | AL28/U088/C90 | 28mm                 | 7/8" - 20             |
| AL16/U063/C90 | 16mm                 | 5/8" - 24             | AL28/U094/C90 | 28mm                 | 15/16" - 20           |
| AL16/U075/C90 | 16mm                 | 3/4" - 20             | AL28/U100/C90 | 28mm                 | 1" - 20               |
| AL16/U081/C90 | 16mm                 | 13/16" - 20           | AL28/U119/C90 | 28mm                 | 1 3/16" - 18          |
| AL16/U088/C90 | 16mm                 | 7/8" - 20             | AL28/U138/C90 | 28mm                 | 1 3/8" - 18           |
| AL16/U094/C90 | 16mm                 | 15/16" - 20           | AL28/U144/C90 | 28mm                 | 1 7/16" - 18          |
| AL16/U100/C90 | 16mm                 | 1" - 20               | AL28/U175/C90 | 28mm                 | 1 3/4" - 18           |
| AL16/U119/C90 | 16mm                 | 1 3/16" - 18          | AL28/U200/C90 | 28mm                 | 2" - 16               |
| AL16/U131/C90 | 16mm                 | 1 5/16" - 18          | AL28/U225/C90 | 28mm                 | 2 1/4" - 16           |
| AL21/U075/C90 | 21mm                 | 3/4" - 20             | AL34/U100/C90 | 34mm                 | 1" - 20               |
| AL21/U088/C90 | 21mm                 | 7/8" - 20             | AL34/U119/C90 | 34mm                 | 1 3/16" - 18          |
| AL21/U094/C90 | 21mm                 | 15/16" - 20           | AL34/U144/C90 | 34mm                 | 1 7/16" - 18          |
| AL21/U100/C90 | 21mm                 | 1" - 20               | AL34/U175/C90 | 34mm                 | 1 3/4" - 18           |
| AL21/U113/C90 | 21mm                 | 1 1/8" - 18           | AL34/U200/C90 | 34mm                 | 2" - 16               |
| AL21/U119/C90 | 21mm                 | 1 3/16" - 18          | AL42/U175/C90 | 42mm                 | 1 3/4" - 18           |
| AL21/U131/C90 | 21mm                 | 1 5/16" - 18          | AL42/U200/C90 | 42mm                 | 2" - 16               |
| AL21/U138/C90 | 21mm                 | 1 3/8" - 18           |               |                      |                       |

To order quote part number, e.g. AL13/U065/C90 and add 000620

#### Approvals



#### IP Rating

#### Appropriate Conduit

For use with: Type PA / PI / CP / PR / PF

|      |                |
|------|----------------|
| IP66 | Yes            |
| IP67 | Yes + ALS Seal |
| IP68 | Yes + ALS Seal |
| IP69 | Yes + ALS Seal |

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics



# Non-metallic conduit systems

## UNEF Type 45 - Adaptalok



UNEF Type 45  
45° Elbow Fitting

### UNEF Type 45 - Adaptalok

45° Elbow Fitting - Swivel Internal Female Thread / For coupling to UNEF circular connectors

Materials: Polyamide (Nylon) 66 & Aluminium / Colour: Black (BL) Only

| Part No.     | Nominal Conduit Size | Connector UNEF Thread | Part No.     | Nominal Conduit Size | Connector UNEF Thread |
|--------------|----------------------|-----------------------|--------------|----------------------|-----------------------|
| AL13/U063/45 | 13mm                 | 5/8" - 24             | AL21/U144/45 | 21mm                 | 1 7/16" - 18          |
| AL13/U075/45 | 13mm                 | 3/4" - 20             | AL21/U175/45 | 21mm                 | 1 3/4" - 18           |
| AL13/U088/45 | 13mm                 | 7/8" - 20             | AL28/U088/45 | 28mm                 | 7/8" - 20             |
| AL16/U063/45 | 16mm                 | 5/8" - 24             | AL28/U094/45 | 28mm                 | 15/16" - 20           |
| AL16/U075/45 | 16mm                 | 3/4" - 20             | AL28/U100/45 | 28mm                 | 1" - 20               |
| AL16/U081/45 | 16mm                 | 13/16" - 20           | AL28/U119/45 | 28mm                 | 1 3/16" - 18          |
| AL16/U088/45 | 16mm                 | 7/8" - 20             | AL28/U138/45 | 28mm                 | 1 3/8" - 18           |
| AL16/U094/45 | 16mm                 | 15/16" - 20           | AL28/U144/45 | 28mm                 | 1 7/16" - 18          |
| AL16/U100/45 | 16mm                 | 1" - 20               | AL28/U175/45 | 28mm                 | 1 3/4" - 18           |
| AL16/U119/45 | 16mm                 | 1 3/16" - 18          | AL28/U200/45 | 28mm                 | 2" - 16               |
| AL16/U131/45 | 16mm                 | 1 5/16" - 18          | AL28/U225/45 | 28mm                 | 2 1/4" - 16           |
| AL21/U075/45 | 21mm                 | 3/4" - 20             | AL34/U100/45 | 34mm                 | 1" - 20               |
| AL21/U088/45 | 21mm                 | 7/8" - 20             | AL34/U119/45 | 34mm                 | 1 3/16" - 18          |
| AL21/U094/45 | 21mm                 | 15/16" - 20           | AL34/U144/45 | 34mm                 | 1 7/16" - 18          |
| AL21/U100/45 | 21mm                 | 1" - 20               | AL34/U175/45 | 34mm                 | 1 3/4" - 18           |
| AL21/U113/45 | 21mm                 | 1 1/8" - 18           | AL34/U200/45 | 34mm                 | 2" - 16               |
| AL21/U119/45 | 21mm                 | 1 3/16" - 18          | AL42/U175/45 | 42mm                 | 1 3/4" - 18           |
| AL21/U131/45 | 21mm                 | 1 5/16" - 18          | AL42/U200/45 | 42mm                 | 2" - 16               |
| AL21/U138/45 | 21mm                 | 1 3/8" - 18           |              |                      |                       |

To order quote part number, e.g. AL13/U065/45 and add 000620

#### Approvals



#### IP Rating

#### Appropriate Conduit

For use with: Type PA / PI / CP / PR / PF

|      |                |
|------|----------------|
| IP66 | Yes            |
| IP67 | Yes + ALS Seal |
| IP68 | Yes + ALS Seal |
| IP69 | Yes + ALS Seal |

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics



# Non-metallic conduit systems

## Jumbo Type FL/A - Adaptalok / Jumbo Type SK

2



Jumbo Type FL/A  
Straight Panel Mounting  
Swivel Flange

### Approvals



### Jumbo Type FL/A - Adaptalok Straight Panel Mounting Swivel Flange

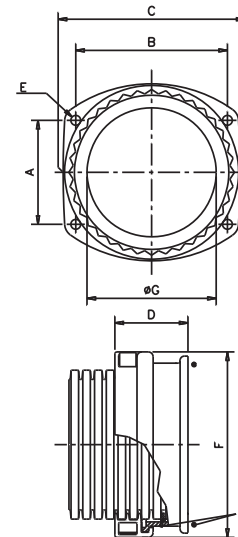
**Materials:** Polyamide (Nylon) 66 / **Colour:** Black (BL) Only

| Part No.    | Nominal Conduit Size |
|-------------|----------------------|
| ADC80/FL/A  | 80mm                 |
| ADC106/FL/A | 106mm                |

To order quote part number, e.g. ADC80/FL/A/BL

| IP Rating                                     | Appropriate Conduit | Temperature Range                    |
|---|---------------------|--------------------------------------|
| <b>For use with:</b> Type PA / PI / PR 80/106 |                     | Static Applications: -50°C to +120°C |
| IP40  | Yes                 | Moving Applications: -45°C to +120°C |
| IP65  | Yes + SK Seal       |                                      |
| IP68  | N/A                 |                                      |
| IP69  | N/A                 |                                      |

| Nominal Size    | Part No.   |             |
|-----------------|------------|-------------|
|                 | ADC80/FL/A | ADC106/FL/A |
| A               | 60mm       | 74mm        |
| B               | 80mm       | 108mm       |
| C               | 98mm       | 126mm       |
| D               | 52.5mm     | 52.5mm      |
| E $\varnothing$ | 7mm        | 7mm         |
| F               | 106mm      | 132mm       |



Seal (Optional)  
for IP65



Jumbo Type SK  
Sealing Kit

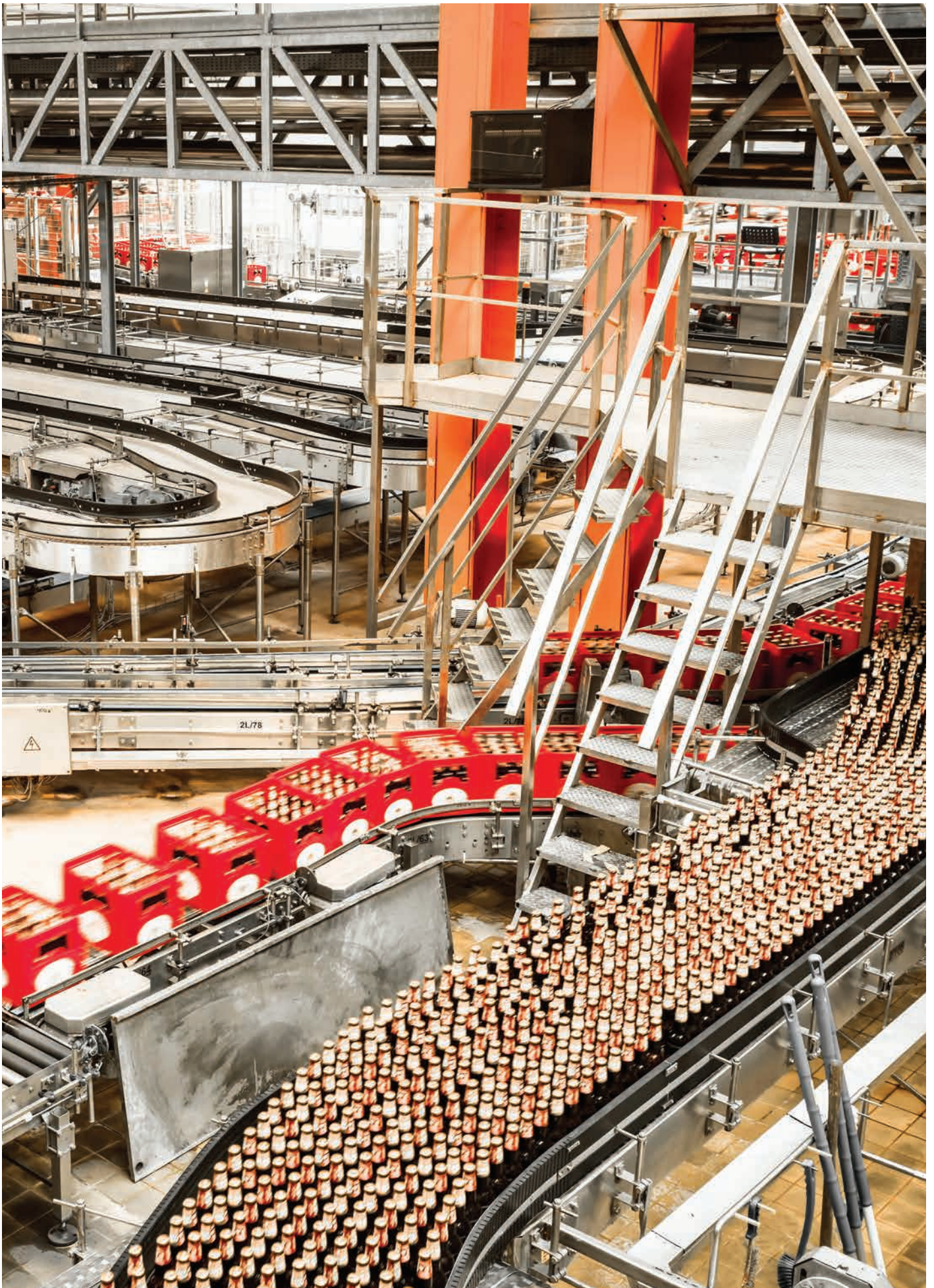
### Jumbo Type SK

**Sealing Kit** / For use with Jumbo fittings to achieve IP65. Consists of two sealing washers & O-ring per kit

**Materials:** Rubber / **Colour:** Black (BL) Only

| Part No. | Nominal Conduit Size |
|----------|----------------------|
| SK80     | 80mm                 |
| SK106    | 106mm                |

To order quote part number, e.g. SK80/BL



# Non-metallic conduit systems

## Introduction to Adaptalok ATS™

2

Adaptalok ATS™ represents a unique and innovative solution in flexible conduit systems. Until now, manufacturers have produced fittings and seals separately, and assembled them together, or had the customer assemble them. This increases assembly time and introduces the possibility for errors.

Adaptalok ATS™ uses a sophisticated moulding process to mould an internal conduit seal and a face seal washer. This makes installation times very fast, and extremely reliable, because the seals cannot be left out. The conduit system also benefits from the highest IP rating possible.

Additional key features:

- Nylon 66 Body
- Lighter in weight
- Quicker to install (cut & assemble fittings)
- Wider variety of fittings - much larger solutions choice
- Better fatigue life
- Return to shape





# Non-metallic conduit systems

## Type A - Adaptalok ATS™



Type A  
Straight Fitting

### Approvals



Type A  
Straight Fitting

### Approvals



### Type A - Adaptalok ATS™

**Straight Fitting - Fixed External Male Thread** / For insertion into knockouts using a locknut. Locknut supplied with METRIC thread

**Materials:** Polyamide (Nylon) 66/TPE / **Colour:** Black (BL), Grey (GR) / Yellow (Y) Elastomer

| Part No.   | Nominal Conduit Size | Metric Thread | Part No.     | Nominal Conduit Size | PF Thread | Part No.   | Nominal Conduit Size | NPT Thread |
|------------|----------------------|---------------|--------------|----------------------|-----------|------------|----------------------|------------|
| AT13/M16/A | 13mm                 | M16           | AT13/PF038/A | 13mm                 | 3/8"      | AT13/038/A | 13mm                 | 3/8"       |
| AT16/M16/A | 16mm                 | M16           | AT16/PF038/A | 16mm                 | 3/8"      | AT16/038/A | 16mm                 | 3/8"       |
| AT16/M20/A | 16mm                 | M20           | AT16/PF050/A | 16mm                 | 1/2"      | AT16/050/A | 16mm                 | 1/2"       |
| AT21/M20/A | 21mm                 | M20           | AT21/PF050/A | 21mm                 | 1/2"      | AT21/050/A | 21mm                 | 1/2"       |
| AT21/M25/A | 21mm                 | M25           |              |                      |           |            |                      |            |
| AT28/M25/A | 28mm                 | M25           | AT28/PF075/A | 28mm                 | 3/4"      | AT28/075/A | 28mm                 | 3/4"       |
| AT28/M32/A | 28mm                 | M32           |              |                      |           |            |                      |            |
| AT34/M32/A | 34mm                 | M32           | AT34/PF100/A | 34mm                 | 1"        | AT34/100/A | 34mm                 | 1"         |
| AT34/M40/A | 34mm                 | M40           |              |                      |           |            |                      |            |
| AT42/M40/A | 42mm                 | M40           | AT42/PF125/A | 42mm                 | 1 1/4"    | AT42/125/A | 42mm                 | 1 1/4"     |
| AT42/M50/A | 42mm                 | M50           |              |                      |           |            |                      |            |
| AT48/M50/A | 48mm                 | M50           | AT48/PF150/A | 48mm                 | 1 1/2"    | AT48/150/A | 48mm                 | 1 1/2"     |
| AT54/M50/A | 54mm                 | M50           |              |                      |           |            |                      |            |
| AT54/M63/A | 54mm                 | M63           | AT54/PF200/A | 48mm                 | 2"        | AT54/200/A | 54mm                 | 2"         |

To order quote part number, body colour & Elastomer colour, e.g. AT21/M20/A/BLY

### Type A - Adaptalok ATS™

**Straight Fitting - Fixed External Male Thread** / For insertion into knockouts using a locknut. Locknut supplied with METRIC thread

**Materials:** Polyamide (Nylon) 66/TPE / **Colour:** Black (BL), Grey (GR) / Blue (B) Elastomer

| Part No.   | Nominal Conduit Size | Metric Thread | Part No.   | Nominal Conduit Size | NPT Thread |
|------------|----------------------|---------------|------------|----------------------|------------|
| AT13/M16/A | 13mm                 | M16           | AT13/038/A | 13mm                 | 3/8"       |
| AT16/M16/A | 16mm                 | M16           | AT16/038/A | 16mm                 | 3/8"       |
| AT16/M20/A | 16mm                 | M20           | AT16/050/A | 16mm                 | 1/2"       |
| AT21/M20/A | 21mm                 | M20           | AT21/050/A | 21mm                 | 1/2"       |
| AT21/M25/A | 21mm                 | M25           |            |                      |            |
| AT28/M25/A | 28mm                 | M25           | AT28/075/A | 28mm                 | 3/4"       |
| AT28/M32/A | 28mm                 | M32           |            |                      |            |
| AT34/M32/A | 34mm                 | M32           | AT34/100/A | 34mm                 | 1"         |
| AT34/M40/A | 34mm                 | M40           |            |                      |            |
| AT42/M40/A | 42mm                 | M40           | AT42/125/A | 42mm                 | 1 1/4"     |
| AT42/M50/A | 42mm                 | M50           |            |                      |            |
| AT48/M50/A | 48mm                 | M50           | AT48/150/A | 48mm                 | 1 1/2"     |
| AT54/M50/A | 54mm                 | M50           |            |                      |            |
| AT54/M63/A | 54mm                 | M63           | AT54/200/A | 54mm                 | 2"         |

To order quote part number, body colour & Elastomer colour, e.g. AT21/M20/A/BLB

| IP Rating  | Appropriate Conduit | Temperature Range                    |
|--|---------------------|--------------------------------------|
| <b>For use with:</b> Type PA / PI / PR / PADL / PF |                     | Static Applications: -50°C to +120°C |
| IP40   | Yes                 | Moving Applications: -45°C to +120°C |
| IP65   | Yes                 |                                      |
| IP68   | Yes (4 bar 30mins)  |                                      |
| IP69   | Yes                 |                                      |

# Non-metallic conduit systems

## Type C90 - Adaptalok ATS™

2



Type C90  
90° Elbow Fitting

### Type C90 - Adaptalok ATS™

90° Elbow Fitting - Fixed External Male Thread / For insertion into knockouts using a locknut. Locknut supplied with METRIC thread

Materials: Polyamide (Nylon) 66/TPE / Colour: Black (BL), Grey (GR) / Yellow (Y) Elastomer

| Part No.     | Nominal Conduit Size | Metric Thread | Part No.       | Nominal Conduit Size | PF Thread | Part No.     | Nominal Conduit Size | NPT Thread |
|--------------|----------------------|---------------|----------------|----------------------|-----------|--------------|----------------------|------------|
| AT13/M16/C90 | 13mm                 | M16           | AT13/PF038/C90 | 13mm                 | 3/8"      | AT13/038/C90 | 13mm                 | 3/8"       |
| AT16/M16/C90 | 16mm                 | M16           | AT16/PF038/C90 | 16mm                 | 3/8"      | AT16/038/C90 | 16mm                 | 3/8"       |
| AT16/M20/C90 | 16mm                 | M20           | AT16/PF050/C90 | 16mm                 | 1/2"      | AT16/050/C90 | 16mm                 | 1/2"       |
| AT21/M20/C90 | 21mm                 | M20           | AT21/PF050/C90 | 21mm                 | 1/2"      | AT21/050/C90 | 21mm                 | 1/2"       |
| AT28/M25/C90 | 28mm                 | M25           | AT28/PF075/C90 | 28mm                 | 3/4"      | AT28/075/C90 | 28mm                 | 3/4"       |
| AT34/M32/C90 | 34mm                 | M32           | AT34/PF100/C90 | 34mm                 | 1"        | AT34/100/C90 | 34mm                 | 1"         |
| AT42/M40/C90 | 42mm                 | M40           | AT42/PF125/C90 | 42mm                 | 1 1/4"    | AT42/125/C90 | 42mm                 | 1 1/4"     |
| AT48/M50/C90 | 48mm                 | M50           | AT48/PF150/C90 | 48mm                 | 1 1/2"    | AT48/150/C90 | 48mm                 | 1 1/2"     |
| AT54/M50/C90 | 54mm                 | M50           | AT54/PF150/C90 | 54mm                 | 1 1/2"    | AT54/150/C90 | 54mm                 | 1 1/2"     |
| AT54/M63/C90 | 54mm                 | M63           | AT54/PF200/C90 | 54mm                 | 2"        | AT54/200/C90 | 54mm                 | 2"         |

To order quote part number, body colour & Elastomer colour, e.g. AT21/M20/C90/BLY

#### Approvals



| IP Rating                                   | Appropriate Conduit | Temperature Range                    |
|---|---------------------|--------------------------------------|
| For use with: Type PA / PI / PR / PADL / PF |                     |                                      |
| IP40  | Yes                 | Static Applications: -50°C to +120°C |
| IP65  | Yes                 | Moving Applications: -45°C to +120°C |
| IP68  | Yes (4 bar 30mins)  |                                      |
| IP69  | Yes                 |                                      |



Type C90  
90° Elbow Fitting

### Type C90 - Adaptalok ATS™

90° Elbow Fitting - Fixed External Male Thread / For insertion into knockouts using a locknut. Locknut supplied with METRIC thread

Materials: Polyamide (Nylon) 66/TPE / Colour: Black (BL), Grey (GR) / Blue (B) Elastomer

| Part No.     | Nominal Conduit Size | Metric Thread | Part No.       | Nominal Conduit Size | PF Thread |
|--------------|----------------------|---------------|----------------|----------------------|-----------|
| AT13/M16/C90 | 13mm                 | M16           | AT13/PF038/C90 | 13mm                 | 3/8"      |
| AT16/M16/C90 | 16mm                 | M16           | AT16/PF038/C90 | 16mm                 | 3/8"      |
| AT16/M20/C90 | 16mm                 | M20           | AT16/PF050/C90 | 16mm                 | 1/2"      |
| AT21/M20/C90 | 21mm                 | M20           | AT21/PF050/C90 | 21mm                 | 1/2"      |
| AT28/M25/C90 | 28mm                 | M25           | AT28/PF075/C90 | 28mm                 | 3/4"      |
| AT34/M32/C90 | 34mm                 | M32           | AT34/PF100/C90 | 34mm                 | 1"        |
| AT42/M40/C90 | 42mm                 | M40           | AT42/PF125/C90 | 42mm                 | 1 1/4"    |
| AT48/M50/C90 | 48mm                 | M50           | AT48/PF150/C90 | 48mm                 | 1 1/2"    |
| AT54/M50/C90 | 54mm                 | M50           | AT54/PF150/C90 | 54mm                 | 1 1/2"    |
| AT54/M63/C90 | 54mm                 | M63           | AT54/PF200/C90 | 54mm                 | 2"        |

To order quote part number, body colour & Elastomer colour, e.g. AT21/M20/C90/BLB

#### Approvals



| IP Rating                                   | Appropriate Conduit | Temperature Range                    |
|---|---------------------|--------------------------------------|
| For use with: Type PA / PI / PR / PADL / PF |                     |                                      |
| IP40  | Yes                 | Static Applications: -50°C to +120°C |
| IP65  | Yes                 | Moving Applications: -45°C to +120°C |
| IP68  | Yes (4 bar 30mins)  |                                      |
| IP69  | Yes                 |                                      |

# Non-metallic conduit systems

## Type 45 - Adaptalok ATS™



Type 45  
45° Elbow Fitting

### Type 45 - Adaptalok ATS™

45° Elbow Fitting - Fixed External Male Thread / For insertion into knockouts using a locknut. Locknut supplied with METRIC thread

Materials: Polyamide (Nylon) 66/TPE / Colour: Black (BL), Grey (GR) / Yellow (Y) Elastomer

| Part No.    | Nominal Conduit Size | Metric Thread | Part No.      | Nominal Conduit Size | PF Thread | Part No.    | Nominal Conduit Size | NPT Thread |
|-------------|----------------------|---------------|---------------|----------------------|-----------|-------------|----------------------|------------|
| AT13/M16/45 | 13mm                 | M16           | AT13/PF038/45 | 13mm                 | 3/8"      | AT13/038/45 | 13mm                 | 3/8"       |
| AT16/M16/45 | 16mm                 | M16           | AT16/PF038/45 | 16mm                 | 3/8"      | AT16/038/45 | 16mm                 | 3/8"       |
| AT16/M20/45 | 16mm                 | M20           | AT16/PF050/45 | 16mm                 | 1/2"      | AT16/050/45 | 16mm                 | 1/2"       |
| AT21/M20/45 | 21mm                 | M20           | AT21/PF050/45 | 21mm                 | 1/2"      | AT21/050/45 | 21mm                 | 1/2"       |
| AT28/M25/45 | 28mm                 | M25           | AT28/PF075/45 | 28mm                 | 3/4"      | AT28/075/45 | 28mm                 | 3/4"       |
| AT34/M32/45 | 34mm                 | M32           | AT34/PF100/45 | 34mm                 | 1"        | AT34/100/45 | 34mm                 | 1"         |
| AT42/M40/45 | 42mm                 | M40           | AT42/PF125/45 | 42mm                 | 1 1/4"    | AT42/125/45 | 42mm                 | 1 1/4"     |
| AT48/M50/45 | 48mm                 | M50           | AT48/PF150/45 | 48mm                 | 1 1/2"    | AT48/150/45 | 48mm                 | 1 1/2"     |
| AT54/M50/45 | 54mm                 | M50           |               |                      |           |             |                      |            |

To order quote part number, body colour & Elastomer colour, e.g. AT54/M50/45/BL

### Approvals



| IP Rating                                   | Appropriate Conduit | Temperature Range  |
|---|---------------------|--|
| For use with: Type PA / PI / PR / PADL / PF |                     |  |
| IP40  | Yes                 | Static Applications: -50°C to +120°C<br>Moving Applications: -45°C to +120°C |
| IP65  | Yes                 |  |
| IP68  | Yes (4 bar 30mins)  |  |
| IP69  | Yes                 |  |



Type 45  
45° Elbow Fitting

### Type 45 - Adaptalok ATS™

45° Elbow Fitting - Fixed External Male Thread / For insertion into knockouts using a locknut. Locknut supplied with METRIC thread

Materials: Polyamide (Nylon) 66/TPE / Colour: Black (BL), Grey (GR) / Blue (B) Elastomer

| Part No.    | Nominal Conduit Size | Metric Thread | Part No.      | Nominal Conduit Size | PF Thread |
|-------------|----------------------|---------------|---------------|----------------------|-----------|
| AT13/M16/45 | 13mm                 | M16           | AT13/PF038/45 | 13mm                 | 3/8"      |
| AT16/M16/45 | 16mm                 | M16           | AT16/PF038/45 | 16mm                 | 3/8"      |
| AT16/M20/45 | 16mm                 | M20           | AT16/PF050/45 | 16mm                 | 1/2"      |
| AT21/M20/45 | 21mm                 | M20           | AT21/PF050/45 | 21mm                 | 1/2"      |
| AT28/M25/45 | 28mm                 | M25           | AT28/PF075/45 | 28mm                 | 3/4"      |
| AT34/M32/45 | 34mm                 | M32           | AT34/PF100/45 | 34mm                 | 1"        |
| AT42/M40/45 | 42mm                 | M40           | AT42/PF125/45 | 42mm                 | 1 1/4"    |
| AT48/M50/45 | 48mm                 | M50           | AT48/PF150/45 | 48mm                 | 1 1/2"    |
| AT54/M50/45 | 54mm                 | M50           |               |                      |           |

To order quote part number, body colour & Elastomer colour, e.g. AT54/M50/45/BLB

### Approvals



| IP Rating                                   | Appropriate Conduit | Temperature Range  |
|---|---------------------|--|
| For use with: Type PA / PI / PR / PADL / PF |                     |  |
| IP40  | Yes                 | Static Applications: -50°C to +120°C<br>Moving Applications: -45°C to +120°C |
| IP65  | Yes                 |  |
| IP68  | Yes (4 bar 30mins)  |  |
| IP69  | Yes                 |  |

# Non-metallic conduit systems

## Type SA & CS90 - Adaptalok ATS™

2



Type SA  
Straight Fitting

### Type SA - Adaptalok ATS™

**Straight Fitting - Metal Swivel External Male Thread** / For insertion into threaded entries & knockouts. Order locknuts separately

**Materials:** Polyamide (Nylon) 66, Nickel Plated Brass Thread/TPE

**Colour:** Black (BL), Grey (GR) / Yellow (Y), Blue (B) Elastomer

| Part No.    | Nominal Conduit Size | Metric Thread | Part No.    | Nominal Conduit Size | NPT Thread |
|-------------|----------------------|---------------|-------------|----------------------|------------|
| AT13/M16/SA | 13mm                 | M16           | AT13/038/SA | 13mm                 | 3/8"       |
| AT16/M16/SA | 16mm                 | M16           | AT16/038/SA | 16mm                 | 3/8"       |
| AT21/M20/SA | 21mm                 | M20           | AT21/050/SA | 21mm                 | 1/2"       |
| AT28/M25/SA | 28mm                 | M25           | AT28/075/SA | 28mm                 | 3/4"       |
| AT34/M32/SA | 34mm                 | M32           | AT34/100/SA | 34mm                 | 1"         |
| AT42/M40/SA | 42mm                 | M40           | AT42/125/SA | 42mm                 | 1 1/4"     |
| AT48/M50/SA | 48mm                 | M50           | AT48/150/SA | 48mm                 | 1 1/2"     |
| AT54/M50/SA | 54mm                 | M50           | AT54/150/SA | 54mm                 | 1 1/2"     |
| AT54/M63/SA | 54mm                 | M63           | AT54/200/SA | 54mm                 | 2"         |

To order quote part number, body colour & Elastomer colour, e.g. AT16/M16/SA/BLB

#### Approvals

Blue Elastomer  
Version Only



#### IP Rating

#### Appropriate Conduit

For use with: Type PA / PI / PR / PADL / PF

|      |                    |
|------|--------------------|
| IP40 | Yes                |
| IP65 | Yes                |
| IP68 | Yes (4 bar 30mins) |
| IP69 | Yes                |

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics



Type CS90  
90° Elbow Fitting

### Type CS90 - Adaptalok ATS™

**90° Elbow Fitting - Swivel External Male Thread** / For insertion into threaded entries & knockouts. Order locknuts separately

**Materials:** Polyamide (Nylon) 66, Nickel Plated Brass Thread/TPE

**Colour:** Black (BL), Grey (GR) / Yellow (Y), Blue (B) Elastomer

| Part No.      | Nominal Conduit Size | Metric Thread | Part No.      | Nominal Conduit Size | NPT Thread |
|---------------|----------------------|---------------|---------------|----------------------|------------|
| AT13/M16/CS90 | 13mm                 | M16           | AT13/038/CS90 | 13mm                 | 3/8"       |
| AT16/M16/CS90 | 16mm                 | M16           | AT16/038/CS90 | 16mm                 | 3/8"       |
| AT21/M20/CS90 | 21mm                 | M20           | AT21/050/CS90 | 21mm                 | 1/2"       |
| AT28/M25/CS90 | 28mm                 | M25           | AT28/075/CS90 | 28mm                 | 3/4"       |
| AT34/M32/CS90 | 34mm                 | M32           | AT34/100/CS90 | 34mm                 | 1"         |
| AT42/M40/CS90 | 42mm                 | M40           | AT42/125/CS90 | 42mm                 | 1 1/4"     |
| AT48/M50/CS90 | 48mm                 | M50           | AT48/150/CS90 | 48mm                 | 1 1/2"     |
| AT54/M50/CS90 | 54mm                 | M50           | AT54/150/CS90 | 54mm                 | 1 1/2"     |
| AT54/M63/CS90 | 54mm                 | M63           | AT54/200/CS90 | 54mm                 | 2"         |

To order quote part number, body colour & Elastomer colour, e.g. AT16/M16/CS90/BLB

#### Approvals

Blue Elastomer  
Version Only



#### IP Rating

#### Appropriate Conduit

For use with: Type PA / PI / PR / PADL / PF

|      |                    |
|------|--------------------|
| IP40 | Yes                |
| IP65 | Yes                |
| IP68 | Yes (4 bar 30mins) |
| IP69 | Yes                |

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics



# Non-metallic conduit systems

## Type S45 & SFA - Adaptalok ATS™



Type S45  
45° Elbow Body

### Type S45 - Adaptalok ATS™

**45° Elbow Body - Swivel External Male Thread** / For insertion into threaded entries & knockouts. Order locknuts separately

**Materials:** Polyamide (Nylon) 66, Nickel Plated Brass Thread/TPE

**Colour:** Black (BL), Grey (GR) / Yellow (Y), Blue (B) Elastomer

| Part No.     | Nominal Conduit Size | Metric Thread | Part No.     | Nominal Conduit Size | NPT Thread |
|--------------|----------------------|---------------|--------------|----------------------|------------|
| AT13/M16/S45 | 13mm                 | M16           | AT13/038/S45 | 13mm                 | 3/8"       |
| AT16/M16/S45 | 16mm                 | M16           | AT16/038/S45 | 16mm                 | 3/8"       |
| AT21/M20/S45 | 21mm                 | M20           | AT21/050/S45 | 21mm                 | 1/2"       |
| AT28/M25/S45 | 28mm                 | M25           | AT28/075/S45 | 28mm                 | 3/4"       |
| AT34/M32/S45 | 34mm                 | M32           | AT34/100/S45 | 34mm                 | 1"         |
| AT42/M40/S45 | 42mm                 | M40           | AT42/125/S45 | 42mm                 | 1 1/4"     |
| AT48/M50/S45 | 48mm                 | M50           | AT48/150/S45 | 48mm                 | 1 1/2"     |
| AT54/M50/S45 | 54mm                 | M50           | AT54/150/S45 | 54mm                 | 1 1/2"     |
| AT54/M63/S45 | 54mm                 | M63           | AT54/200/S45 | 54mm                 | 2"         |

To order quote part number, body colour & Elastomer colour, e.g. AT54/M63/S45/BLB

#### Approvals

Blue Elastomer  
Version Only



#### IP Rating

#### Appropriate Conduit

**For use with:** Type PA / PI / PR / PADL / PF

|      |                    |
|------|--------------------|
| IP40 | Yes                |
| IP65 | Yes                |
| IP68 | Yes (4 bar 30mins) |
| IP69 | Yes                |

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics



Type SFA  
Straight Fitting

### Type SFA - Adaptalok ATS™

**Straight Fitting - Swivel Internal Female Thread** / For attachments to external threads & other fittings

**Materials:** Polyamide (Nylon) 66, Nickel Plated Brass Thread/TPE

**Colour:** Black (BL), Grey (GR) / Yellow (Y), Blue (B) Elastomer

| Part No.     | Nominal Conduit Size | Metric Thread | Part No.     | Nominal Conduit Size | NPT Thread |
|--------------|----------------------|---------------|--------------|----------------------|------------|
| AT13/M16/SFA | 13mm                 | M16           | AT13/038/SFA | 13mm                 | 3/8"       |
| AT16/M16/SFA | 16mm                 | M16           | AT16/038/SFA | 16mm                 | 3/8"       |
| AT21/M20/SFA | 21mm                 | M20           | AT21/050/SFA | 21mm                 | 1/2"       |
| AT28/M25/SFA | 28mm                 | M25           | AT28/075/SFA | 28mm                 | 3/4"       |
| AT34/M32/SFA | 34mm                 | M32           | AT34/100/SFA | 34mm                 | 1"         |
| AT42/M40/SFA | 42mm                 | M40           | AT42/125/SFA | 42mm                 | 1 1/4"     |
| AT48/M50/SFA | 48mm                 | M50           | AT48/150/SFA | 48mm                 | 1 1/2"     |
| AT54/M50/SFA | 54mm                 | M50           |              |                      |            |
| AT54/M63/SFA | 54mm                 | M63           | AT54/200/SFA | 54mm                 | 2"         |

To order quote part number, body colour & Elastomer colour, e.g. AT54/M63/SFA/BLB

#### Approvals

Blue Elastomer  
Version Only



#### IP Rating

#### Appropriate Conduit

**For use with:** Type PA / PI / PR / PADL / PF

|      |                    |
|------|--------------------|
| IP40 | Yes                |
| IP65 | Yes                |
| IP68 | Yes (4 bar 30mins) |
| IP69 | Yes                |

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics



# Non-metallic conduit systems

## Type CSF90 & SF45 - Adaptalok ATS™

2



Type CSF90  
90° Elbow Body

### Type CSF90 - Adaptalok ATS™

90° Elbow Body - Swivel Internal Female Thread / For attaching to external threads & other fittings

**Materials:** Polyamide (Nylon) 66, Nickel Plated Brass Thread/TPE

**Colour:** Black (BL), Grey (GR) / Yellow (Y), Blue (B) Elastomer

| Part No.       | Nominal Conduit Size | Metric Thread | Part No.       | Nominal Conduit Size | NPT Thread |
|----------------|----------------------|---------------|----------------|----------------------|------------|
| AT13/M16/CSF90 | 13mm                 | M16           | AT13/038/CSF90 | 13mm                 | 3/8"       |
| AT16/M16/CSF90 | 16mm                 | M16           | AT16/038/CSF90 | 16mm                 | 3/8"       |
| AT21/M20/CSF90 | 21mm                 | M20           | AT21/050/CSF90 | 21mm                 | 1/2"       |
| AT28/M25/CSF90 | 28mm                 | M25           | AT28/075/CSF90 | 28mm                 | 3/4"       |
| AT34/M32/CSF90 | 34mm                 | M32           | AT34/100/CSF90 | 34mm                 | 1"         |
| AT42/M40/CSF90 | 42mm                 | M40           | AT42/125/CSF90 | 42mm                 | 1 1/4"     |
| AT48/M50/CSF90 | 48mm                 | M50           | AT48/150/CSF90 | 48mm                 | 1 1/2"     |
| AT54/M50/CSF90 | 54mm                 | M50           |                |                      |            |
| AT54/M63/CSF90 | 54mm                 | M63           | AT54/200/CSF90 | 54mm                 | 2"         |

To order quote part number, body colour & Elastomer colour, e.g. AT16/M16/CSF90/BLB

#### Approvals

Blue Elastomer  
Version Only



#### IP Rating

#### Appropriate Conduit

For use with: Type PA / PI / PR / PADL / PF

|      |                    |
|------|--------------------|
| IP40 | Yes                |
| IP65 | Yes                |
| IP68 | Yes (4 bar 30mins) |
| IP69 | Yes                |

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics



Type SF45  
45° Elbow Body

### Type SF45 - Adaptalok ATS™

45° Elbow Body - Swivel Internal Female Thread / For attaching to external threads & other fittings

**Materials:** Polyamide (Nylon) 66, Nickel Plated Brass Thread/TPE

**Colour:** Black (BL), Grey (GR) / Yellow (Y), Blue (B) Elastomer

| Part No.      | Nominal Conduit Size | Metric Thread | Part No.      | Nominal Conduit Size | NPT Thread |
|---------------|----------------------|---------------|---------------|----------------------|------------|
| AT13/M16/SF45 | 13mm                 | M16           | AT13/038/SF45 | 13mm                 | 3/8"       |
| AT16/M16/SF45 | 16mm                 | M16           | AT16/038/SF45 | 16mm                 | 3/8"       |
| AT21/M20/SF45 | 21mm                 | M20           | AT21/050/SF45 | 21mm                 | 1/2"       |
| AT28/M25/SF45 | 28mm                 | M25           | AT28/075/SF45 | 28mm                 | 3/4"       |
| AT34/M32/SF45 | 34mm                 | M32           | AT34/100/SF45 | 34mm                 | 1"         |
| AT42/M40/SF45 | 42mm                 | M40           | AT42/125/SF45 | 42mm                 | 1 1/4"     |
| AT48/M50/SF45 | 48mm                 | M50           | AT48/150/SF45 | 48mm                 | 1 1/2"     |
| AT54/M50/SF45 | 54mm                 | M50           |               |                      |            |
| AT54/M63/SF45 | 54mm                 | M63           | AT54/200/SF45 | 54mm                 | 2"         |

To order quote part number, body colour & Elastomer colour, e.g. AT16/M16/SF45/BLB

#### Approvals

Blue Elastomer  
Version Only



#### IP Rating

#### Appropriate Conduit

For use with: Type PA / PI / PR / PADL / PF

|      |                    |
|------|--------------------|
| IP40 | Yes                |
| IP65 | Yes                |
| IP68 | Yes (4 bar 30mins) |
| IP69 | Yes                |

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics



# Non-metallic conduit systems

## Swivel Housing Type SFAJ, CSF90J & SF45J - Adaptalok ATS™



Type SFAJ  
Straight Fitting

### Type SFAJ - Adaptalok ATS™

**Straight Fitting - Swivel Housing** / Swivel metal housing for use with Jacob PERFECT cable glands

**Materials:** Polyamide (Nylon) 66, Nickel Plated Brass Thread/TPE

**Colour:** Black (BL), Grey (GR) / Yellow (Y) Elastomer

| Part No.      | Nominal Conduit Size | Metric Thread |
|---------------|----------------------|---------------|
| AT16/M16/SFAJ | 16mm                 | M16           |
| AT21/M20/SFAJ | 21mm                 | M20           |
| AT28/M25/SFAJ | 28mm                 | M25           |
| AT34/M32/SFAJ | 34mm                 | M32           |
| AT42/M40/SFAJ | 42mm                 | M40           |
| AT54/M50/SFAJ | 54mm                 | M50           |
| AT54/M63/SFAJ | 54mm                 | M63           |

To order quote part number, body colour & Elastomer colour, e.g. AT54/M63/SFAJ/BLY



Type CSF90J  
90° Elbow Body

### Type CSF90J - Adaptalok ATS™

**90° Elbow Body - Swivel Housing** / Swivel metal housing for use with Jacob PERFECT cable glands

**Materials:** Polyamide (Nylon) 66, Nickel Plated Brass Thread/TPE

**Colour:** Black (BL), Grey (GR) / Yellow (Y) Elastomer

| Part No.        | Nominal Conduit Size | Metric Thread |
|-----------------|----------------------|---------------|
| AT16/M16/CSF90J | 16mm                 | M16           |
| AT21/M20/CSF90J | 21mm                 | M20           |
| AT28/M25/CSF90J | 28mm                 | M25           |
| AT34/M32/CSF90J | 34mm                 | M32           |
| AT42/M40/CSF90J | 42mm                 | M40           |
| AT54/M50/CSF90J | 54mm                 | M50           |
| AT54/M63/CSF90J | 54mm                 | M63           |

To order quote part number, body colour & Elastomer colour, e.g. AT16/M16/CSF90J/BLY



Type SF45J  
45° Elbow Body

### Type SF45 - Adaptalok ATS™

**45° Elbow Body - Swivel Housing** / Swivel metal housing for use with Jacob PERFECT cable glands

**Materials:** Polyamide (Nylon) 66, Nickel Plated Brass Thread/TPE

**Colour:** Black (BL), Grey (GR) / Yellow (Y) Elastomer

| Part No.       | Nominal Conduit Size | Metric Thread |
|----------------|----------------------|---------------|
| AT16/M16/SF45J | 16mm                 | M16           |
| AT21/M20/SF45J | 21mm                 | M20           |
| AT28/M25/SF45J | 28mm                 | M25           |
| AT34/M32/SF45J | 34mm                 | M32           |
| AT42/M40/SF45J | 42mm                 | M40           |
| AT54/M50/SF45J | 54mm                 | M50           |
| AT54/M63/SF45J | 54mm                 | M63           |

To order quote part number, body colour & Elastomer colour, e.g. AT16/M16/SF45J/BLY

#### Approvals



| IP Rating  | Appropriate Conduit | Temperature Range                    |
|--|---------------------|--------------------------------------|
| <b>For use with:</b> Type PA / PI / PR / PADL / PF |                     |                                      |
| IP40   | Yes                 | Static Applications: -50°C to +120°C |
| IP65   | Yes                 | Moving Applications: -45°C to +120°C |
| IP68   | Yes (4 bar 30mins)  |                                      |
| IP69   | N/A                 |                                      |

#### Fitting Characteristics



# Non-metallic conduit systems

## UNEF Type SFA - Adaptalok ATS™

2



UNEF Type SFA  
Straight Body

### UNEF Type SFA - Adaptalok ATS™

**Straight Body - Swivel Internal Female Thread** / For coupling to UNEF circular connectors

**Materials:** Polyamide (Nylon) 66, Aluminium/TPE / **Colour:** Black (BL) Only / Yellow (Y), Blue (B) Elastomer

| Part No.      | Nominal Conduit Size | Connector UNEF Thread | Part No.      | Nominal Conduit Size | Connector UNEF Thread |
|---------------|----------------------|-----------------------|---------------|----------------------|-----------------------|
| AT13/U063/SFA | 13mm                 | 5/8" - 24             | AT21/U144/SFA | 21mm                 | 1 7/16" - 18          |
| AT13/U075/SFA | 13mm                 | 3/4" - 20             | AT21/U175/SFA | 21mm                 | 1 3/4" - 18           |
| AT13/U088/SFA | 13mm                 | 7/8" - 20             | AT28/U088/SFA | 28mm                 | 7/8" - 20             |
| AT16/U063/SFA | 16mm                 | 5/8" - 24             | AT28/U094/SFA | 28mm                 | 15/16" - 20           |
| AT16/U075/SFA | 16mm                 | 3/4" - 20             | AT28/U100/SFA | 28mm                 | 1" - 20               |
| AT16/U081/SFA | 16mm                 | 13/16" - 20           | AT28/U119/SFA | 28mm                 | 1 3/16" - 18          |
| AT16/U088/SFA | 16mm                 | 7/8" - 20             | AT28/U138/SFA | 28mm                 | 1 3/8" - 18           |
| AT16/U094/SFA | 16mm                 | 15/16" - 20           | AT28/U144/SFA | 28mm                 | 1 7/16" - 18          |
| AT16/U100/SFA | 16mm                 | 1" - 20               | AT28/U175/SFA | 28mm                 | 1 3/4" - 18           |
| AT16/U119/SFA | 16mm                 | 1 3/16" - 18          | AT28/U200/SFA | 28mm                 | 2" - 16               |
| AT16/U131/SFA | 16mm                 | 1 5/16" - 18          | AT28/U225/SFA | 28mm                 | 2 1/4" - 16           |
| AT21/U075/SFA | 21mm                 | 3/4" - 20             | AT34/U100/SFA | 34mm                 | 1" - 20               |
| AT21/U088/SFA | 21mm                 | 7/8" - 20             | AT34/U119/SFA | 34mm                 | 1 3/16" - 18          |
| AT21/U094/SFA | 21mm                 | 15/16" - 20           | AT34/U144/SFA | 34mm                 | 1 7/16" - 18          |
| AT21/U100/SFA | 21mm                 | 1" - 20               | AT34/U175/SFA | 34mm                 | 1 3/4" - 18           |
| AT21/U113/SFA | 21mm                 | 1 1/8" - 18           | AT34/U200/SFA | 34mm                 | 2" - 16               |
| AT21/U119/SFA | 21mm                 | 1 3/16" - 18          | AT42/U175/SFA | 42mm                 | 1 3/4" - 18           |
| AT21/U131/SFA | 21mm                 | 1 5/16" - 18          | AT42/U200/SFA | 42mm                 | 2" - 16               |
| AT21/U138/SFA | 21mm                 | 1 3/8" - 18           |               |                      |                       |

To order quote part number, body colour & Elastomer colour, e.g. AT16/U063/SFA/BLB

#### Approvals



Blue Elastomer  
Version Only



#### IP Rating

**For use with:** Type PA / PI / PR / PADL / PF

| IP Rating | Appropriate Conduit |
|-----------|---------------------|
| IP40      | Yes                 |
| IP65      | Yes                 |
| IP68      | Yes (4 bar 30mins)  |
| IP69      | Yes                 |

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics





# Non-metallic conduit systems

## UNEF Type CSF90 - Adaptalok ATS™



UNEF Type CSF90  
90° Elbow Body

### UNEF Type CSF90 - Adaptalok ATS™

90° Elbow Body - Swivel Internal Female Thread / For coupling to UNEF circular connectors

Materials: Polyamide (Nylon) 66, Aluminium/TPE / Colour: Black (BL) Only / Yellow (Y), Blue (B) Elastomer

| Part No.        | Nominal Conduit Size | Connector UNEF Thread | Part No.        | Nominal Conduit Size | Connector UNEF Thread |
|-----------------|----------------------|-----------------------|-----------------|----------------------|-----------------------|
| AT13/U063/CSF90 | 13mm                 | 5/8" - 24             | AT21/U144/CSF90 | 21mm                 | 1 7/16" - 18          |
| AT13/U075/CSF90 | 13mm                 | 3/4" - 20             | AT21/U175/CSF90 | 21mm                 | 1 3/4" - 18           |
| AT13/U088/CSF90 | 13mm                 | 7/8" - 20             | AT28/U088/CSF90 | 28mm                 | 7/8" - 20             |
| AT16/U063/CSF90 | 16mm                 | 5/8" - 24             | AT28/U094/CSF90 | 28mm                 | 15/16" - 20           |
| AT16/U075/CSF90 | 16mm                 | 3/4" - 20             | AT28/U100/CSF90 | 28mm                 | 1" - 20               |
| AT16/U081/CSF90 | 16mm                 | 13/16" - 20           | AT28/U119/CSF90 | 28mm                 | 1 3/16" - 18          |
| AT16/U088/CSF90 | 16mm                 | 7/8" - 20             | AT28/U138/CSF90 | 28mm                 | 1 3/8" - 18           |
| AT16/U094/CSF90 | 16mm                 | 15/16" - 20           | AT28/U144/CSF90 | 28mm                 | 1 7/16" - 18          |
| AT16/U100/CSF90 | 16mm                 | 1" - 20               | AT28/U175/CSF90 | 28mm                 | 1 3/4" - 18           |
| AT16/U119/CSF90 | 16mm                 | 1 3/16" - 18          | AT28/U200/CSF90 | 28mm                 | 2" - 16               |
| AT16/U131/CSF90 | 16mm                 | 1 5/16" - 18          | AT28/U225/CSF90 | 28mm                 | 2 1/4" - 16           |
| AT21/U075/CSF90 | 21mm                 | 3/4" - 20             | AT34/U100/CSF90 | 34mm                 | 1" - 20               |
| AT21/U088/CSF90 | 21mm                 | 7/8" - 20             | AT34/U119/CSF90 | 34mm                 | 1 3/16" - 18          |
| AT21/U094/CSF90 | 21mm                 | 15/16" - 20           | AT34/U144/CSF90 | 34mm                 | 1 7/16" - 18          |
| AT21/U100/CSF90 | 21mm                 | 1" - 20               | AT34/U175/CSF90 | 34mm                 | 1 3/4" - 18           |
| AT21/U113/CSF90 | 21mm                 | 1 1/8" - 18           | AT34/U200/CSF90 | 34mm                 | 2" - 16               |
| AT21/U119/CSF90 | 21mm                 | 1 3/16" - 18          | AT42/U175/CSF90 | 42mm                 | 1 3/4" - 18           |
| AT21/U131/CSF90 | 21mm                 | 1 5/16" - 18          | AT42/U200/CSF90 | 42mm                 | 2" - 16               |
| AT21/U138/CSF90 | 21mm                 | 1 3/8" - 18           |                 |                      |                       |

To order quote part number, body colour & Elastomer colour, e.g. AT16/U063/CSF90/BLB

#### Approvals



Blue Elastomer  
Version Only



#### IP Rating

For use with: Type PA / PI / PR / PADL / PF

| IP Rating | Appropriate Conduit |
|-----------|---------------------|
| IP40      | Yes                 |
| IP65      | Yes                 |
| IP68      | Yes (4 bar 30mins)  |
| IP69      | Yes                 |

#### Appropriate Conduit

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics



# Non-metallic conduit systems

## UNEF Type SF45 - Adaptalok ATS™

2



UNEF Type SF45  
45° Elbow Body

### UNEF Type SF45 - Adaptalok ATS™

45° Elbow Body - Swivel Internal Female Thread / For coupling to UNEF circular connectors

**Materials:** Polyamide (Nylon) 66, Aluminium/TPE / **Colour:** Black (BL) Only / Yellow (Y), Blue (B) Elastomer

| Part No.       | Nominal Conduit Size | Connector UNEF Thread | Part No.       | Nominal Conduit Size | Connector UNEF Thread |
|----------------|----------------------|-----------------------|----------------|----------------------|-----------------------|
| AT13/U063/SF45 | 13mm                 | 5/8" - 24             | AT21/U144/SF45 | 21mm                 | 1 7/16" - 18          |
| AT13/U075/SF45 | 13mm                 | 3/4" - 20             | AT21/U175/SF45 | 21mm                 | 1 3/4" - 18           |
| AT13/U088/SF45 | 13mm                 | 7/8" - 20             | AT28/U088/SF45 | 28mm                 | 7/8" - 20             |
| AT16/U063/SF45 | 16mm                 | 5/8" - 24             | AT28/U094/SF45 | 28mm                 | 15/16" - 20           |
| AT16/U075/SF45 | 16mm                 | 3/4" - 20             | AT28/U100/SF45 | 28mm                 | 1" - 20               |
| AT16/U081/SF45 | 16mm                 | 13/16" - 20           | AT28/U119/SF45 | 28mm                 | 1 3/16" - 18          |
| AT16/U088/SF45 | 16mm                 | 7/8" - 20             | AT28/U138/SF45 | 28mm                 | 1 3/8" - 18           |
| AT16/U094/SF45 | 16mm                 | 15/16" - 20           | AT28/U144/SF45 | 28mm                 | 1 7/16" - 18          |
| AT16/U100/SF45 | 16mm                 | 1" - 20               | AT28/U175/SF45 | 28mm                 | 1 3/4" - 18           |
| AT16/U119/SF45 | 16mm                 | 1 3/16" - 18          | AT28/U200/SF45 | 28mm                 | 2" - 16               |
| AT16/U131/SF45 | 16mm                 | 1 5/16" - 18          | AT28/U225/SF45 | 28mm                 | 2 1/4" - 16           |
| AT21/U075/SF45 | 21mm                 | 3/4" - 20             | AT34/U100/SF45 | 34mm                 | 1" - 20               |
| AT21/U088/SF45 | 21mm                 | 7/8" - 20             | AT34/U119/SF45 | 34mm                 | 1 3/16" - 18          |
| AT21/U094/SF45 | 21mm                 | 15/16" - 20           | AT34/U144/SF45 | 34mm                 | 1 7/16" - 18          |
| AT21/U100/SF45 | 21mm                 | 1" - 20               | AT34/U175/SF45 | 34mm                 | 1 3/4" - 18           |
| AT21/U113/SF45 | 21mm                 | 1 1/8" - 18           | AT34/U200/SF45 | 34mm                 | 2" - 16               |
| AT21/U119/SF45 | 21mm                 | 1 3/16" - 18          | AT42/U175/SF45 | 42mm                 | 1 3/4" - 18           |
| AT21/U131/SF45 | 21mm                 | 1 5/16" - 18          | AT42/U200/SF45 | 42mm                 | 2" - 16               |
| AT21/U138/SF45 | 21mm                 | 1 3/8" - 18           |                |                      |                       |

To order quote part number, body colour & Elastomer colour, e.g. AT16/U063/SF45/BLB

#### Approvals

Blue Elastomer  
Version Only



#### IP Rating

#### Appropriate Conduit

For use with: Type PA / PI / PR / PADL / PF

| IP Rating | Appropriate Conduit |
|-----------|---------------------|
| IP40      | Yes                 |
| IP65      | Yes                 |
| IP68      | Yes (4 bar 30mins)  |
| IP69      | Yes                 |

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics



# Non-metallic conduit systems

## Swivel Coupler & Panel Mounting Type FL/A - Adaptalok ATS™



Swivel Coupler  
Straight PA66 Body

### Swivel Coupler - Adaptalok ATS™

**Straight PA66 Body - Swivel Coupler** / For coupling to corrugated flexible conduit

**Materials:** Polyamide (Nylon) 66/TPE / **Colour:** Black (BL) Only / Yellow (Y), Blue (B) Elastomer

| Part No. | Nominal Conduit Size |
|----------|----------------------|
| AT13/A/U | 13mm                 |
| AT16/A/U | 16mm                 |
| AT21/A/U | 21mm                 |
| AT28/A/U | 28mm                 |
| AT34/A/U | 34mm                 |
| AT42/A/U | 42mm                 |
| AT48/A/U | 48mm                 |
| AT54/A/U | 54mm                 |

To order quote part number, body colour & Elastomer colour, e.g. AT21/A/U/BLB

#### Approvals



#### Blue Elastomer Version Only



#### IP Rating

#### Appropriate Conduit

**For use with:** Type PA / PI / PR / PADL / PF

|      |                    |
|------|--------------------|
| IP40 | Yes                |
| IP65 | Yes                |
| IP68 | Yes (4 bar 30mins) |
| IP69 | Yes                |

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics



Panel Mounting Type FL/A  
Straight Panel Mounting  
Swivel Flange

### Panel Mounting Type FL/A - Adaptalok ATS™

**Straight Panel Mounting-Swivel Flange** / With integral face seal

**Materials:** Polyamide (Nylon) 66/TPE / **Colour:** Black (BL), Grey (GR) / Yellow (Y), Blue (B) Elastomer

| Part No.  | Nominal Conduit Size |
|-----------|----------------------|
| AT16/FL/A | 16mm                 |
| AT21/FL/A | 21mm                 |
| AT28/FL/A | 28mm                 |

To order quote part number, body colour & Elastomer colour, e.g. AT21/FL/A/BLB

#### Approvals



#### Blue Elastomer Version Only



#### IP Rating

#### Appropriate Conduit

**For use with:** Type PA / PI / PR / PADL / PF

|      |                    |
|------|--------------------|
| IP40 | Yes                |
| IP65 | Yes                |
| IP68 | Yes (4 bar 30mins) |
| IP69 | Yes                |

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics



# Non-metallic conduit systems

## Panel Mounting Type FL/C90 & FL45 - Adaptalok ATS™

2



Panel Mounting Type FL/C90  
90° Elbow Body

### Panel Mounting Type FL/C90 - Adaptalok ATS™

90° Elbow Body - Panel Mounting Swivel Flange / For panel mounting via 2 hole fixing & integral face seal

**Materials:** Polyamide (Nylon) 66/TPE / **Colour:** Black (BL), Grey (GR) / Yellow (Y), Blue (B) Elastomer

| Part No.    | Nominal Conduit Size |
|-------------|----------------------|
| AT13/FL/C90 | 13mm                 |
| AT16/FL/C90 | 16mm                 |
| AT21/FL/C90 | 21mm                 |
| AT28/FL/C90 | 28mm                 |

To order quote part number, body colour & Elastomer colour, e.g. AT21/FL/C90/BLB

#### Approvals

Blue Elastomer  
Version Only



#### IP Rating

#### Appropriate Conduit

#### Temperature Range

**For use with:** Type PA / PI / PR / PADL / PF

Static Applications: -50°C to +120°C

IP40

Yes

Moving Applications: -45°C to +120°C

IP65

Yes

IP68

Yes (4 bar 30mins)

IP69

Yes

#### Fitting Characteristics



Panel Mounting Type FL45  
45° Elbow Body

### Panel Mounting Type FL45 - Adaptalok ATS™

45° Elbow Body - Panel Mounting Swivel Flange / With integral face seal

**Materials:** Polyamide (Nylon) 66/TPE / **Colour:** Black (BL), Grey (GR) / Yellow (W), Blue (B) Elastomer

| Part No.   | Nominal Conduit Size |
|------------|----------------------|
| AT16/FL/45 | 16mm                 |
| AT21/FL/45 | 21mm                 |
| AT28/FL/45 | 28mm                 |

To order quote part number, body colour & Elastomer colour, e.g. AT21/FL/45/BLB

#### Approvals

Blue Elastomer  
Version Only



#### IP Rating

#### Appropriate Conduit

#### Temperature Range

**For use with:** Type PA / PI / PR / PADL / PF

Static Applications: -50°C to +120°C

IP40

Yes

Moving Applications: -45°C to +120°C

IP65

Yes

IP68

Yes (4 bar 30mins)

IP69

Yes

#### Fitting Characteristics



# Non-metallic conduit systems

## Type T - Adaptalok ATS™



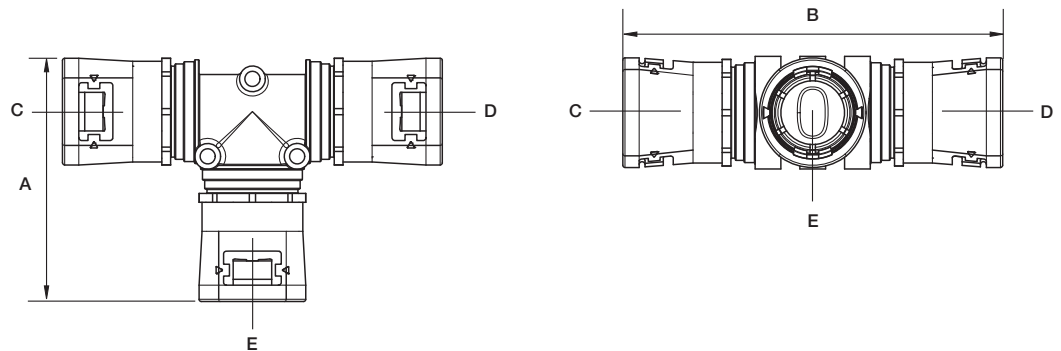
Type T  
3 Way 'T' Piece

### Type T - Adaptalok ATS™

3 Way 'T' Piece / Materials: Polyamide (Nylon) 66 / Colour: Black (BL), Grey (GR) / Yellow (Y), Blue (B) Elastomer

|            | Part No.   | Nominal Dimensions / Conduit Size |       |      |      |      |
|------------|------------|-----------------------------------|-------|------|------|------|
|            |            | A                                 | B     | C    | D    | E    |
| <b>21T</b> | AT211316/T | 82mm                              | 129mm | 21mm | 16mm | 13mm |
|            | AT211321/T | 82mm                              | 122mm | 21mm | 21mm | 13mm |
|            | AT211613/T | 83mm                              | 129mm | 21mm | 13mm | 16mm |
|            | AT211616/T | 83mm                              | 129mm | 21mm | 16mm | 16mm |
|            | AT211621/T | 83mm                              | 122mm | 21mm | 21mm | 16mm |
|            | AT212113/T | 75mm                              | 129mm | 21mm | 21mm | 13mm |
|            | AT211616/T | 83mm                              | 129mm | 21mm | 16mm | 16mm |
|            | AT212121/T | 77mm                              | 122mm | 21mm | 21mm | 21mm |
| <b>28T</b> | AT212821/T | 82mm                              | 152mm | 21mm | 21mm | 28mm |
|            | AT281321/T | 88mm                              | 141mm | 28mm | 21mm | 13mm |
|            | AT281328/T | 88mm                              | 129mm | 28mm | 28mm | 13mm |
|            | AT281621/T | 90mm                              | 141mm | 28mm | 21mm | 16mm |
|            | AT281628/T | 90mm                              | 129mm | 28mm | 28mm | 16mm |
|            | AT282121/T | 93mm                              | 141mm | 28mm | 21mm | 21mm |
|            | AT282128/T | 93mm                              | 129mm | 28mm | 28mm | 21mm |
|            | AT282828/T | 82mm                              | 129mm | 28mm | 28mm | 28mm |
| <b>34T</b> | AT341634/T | 98mm                              | 139mm | 34mm | 34mm | 16mm |
|            | AT342128/T | 104mm                             | 150mm | 34mm | 28mm | 21mm |
|            | AT342134/T | 104mm                             | 139mm | 34mm | 34mm | 21mm |
|            | AT343434/T | 91mm                              | 139mm | 34mm | 34mm | 34mm |

To order quote part number, body colour & Elastomer colour, e.g. AT211316/T/BLY



#### Approvals



#### IP Rating

#### Appropriate Conduit

For use with: Type PA / PI / PR / PADL / PF

IP66 Yes

IP67 Yes

IP68 Yes (4 bar 30mins)

IP69 Yes

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics



# Non-metallic conduit systems

## Type Y - Adaptalok ATS™

2



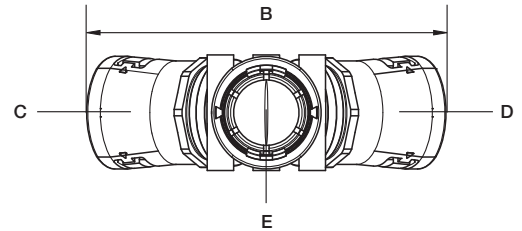
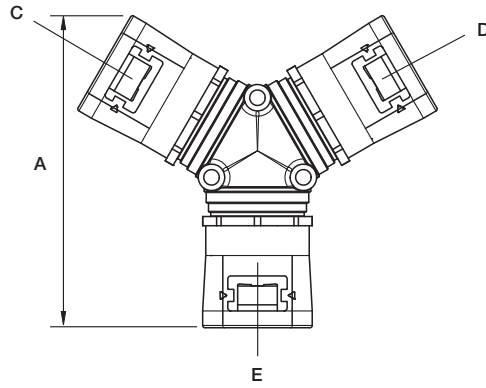
Type Y  
3 way 'Y' Piece

### Type Y - Adaptalok ATS™

3 Way 'Y' Piece / **Materials:** Polyamide (Nylon) 66 / **Colour:** Black (BL), Grey (GR) / Yellow (Y), Blue (B) Elastomer

|     | Part No.   | Nominal Dimensions / Conduit Size |         |      |      |      |
|-----|------------|-----------------------------------|---------|------|------|------|
|     |            | A                                 | B       | C    | D    | E    |
| 28Y | AT282113/Y | 107.1mm                           | 117.8mm | 28mm | 21mm | 13mm |
|     | AT282116/Y | 110.6mm                           | 117.8mm | 28mm | 21mm | 16mm |
|     | AT282121/Y | 116.4mm                           | 129.9mm | 28mm | 21mm | 21mm |
|     | AT282813/Y | 108.7mm                           | 124.6mm | 28mm | 28mm | 13mm |
|     | AT282816/Y | 112.2mm                           | 124.6mm | 28mm | 28mm | 16mm |
|     | AT282821/Y | 116.6mm                           | 124.6mm | 28mm | 28mm | 21mm |
|     | AT282828/Y | 165.0mm                           | 119.0mm | 28mm | 28mm | 28mm |

To order quote part number, body colour & Elastomer colour, e.g. AT282113/Y/BLY



#### Approvals



#### IP Rating    Appropriate Conduit

**For use with:** Type PA / PI / PR / PADL / PF

|      |                    |
|------|--------------------|
| IP40 | Yes                |
| IP65 | Yes                |
| IP68 | Yes (4 bar 30mins) |
| IP69 | Yes                |

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics



# Corrosion-resistant composite fittings

## Introduction

### Range overview

Corrosion-resistant composite fittings for light rail and applications in exposed areas.

Offering reduced weight, enhanced strength providing and a smooth, unrestricted internal bore in demanding applications.

Typical applications:

- Areas of potential high impact
- Train bogies
- Areas where additional mechanical need to protect against damage
- Rail infrastructure
- Trackside
- Machinery and equipment

Features:

- PCC - Coarse pitch conduit
- PCF - Fine pitch conduit
- Smooth through bore
- High strength and high impact resistance
- Full swivel function on elbow fittings
- Lightweight
- For insertion into threaded entries and knockouts using a locknut. Locknut supplied separately



Many of our conduit systems have industry recognised approvals including British Kitemark, CE Approval & UL amongst others.



# Non-metallic conduit systems

## Type PCC/PCF - A Type

2



Type PCC/PCF - A Type  
Straight Fitting

### Type PCC/PCF - A Type

**Straight Fitting - Fixed External Male Thread** / For insertion into threaded entries and knockouts using a locknut.

Locknut supplied separately

**Materials:** Nickel Plated Brass, Neoprene Seals

#### Standard thread length

| Part No.     | Nominal Conduit Size | Metric Thread |
|--------------|----------------------|---------------|
| PCF13/M16/A* | 13mm                 | M16           |
| PCF16/M16/A  | 16mm                 | M16           |
| PCF21/M20/A  | 21mm                 | M20           |
| PCC28/M25/A  | 28mm                 | M25           |
| PCC34/M32/A  | 34mm                 | M32           |
| PCC42/M40/A  | 42mm                 | M40           |
| PCC54/M50/A  | 54mm                 | M50           |

#### Short thread length

| Part No.      | Nominal Conduit Size | Metric Thread |
|---------------|----------------------|---------------|
| PCF13/M16S/A* | 13mm                 | M16S          |
| PCF16/M16S/A  | 16mm                 | M16S          |
| PCF21/M20S/A  | 21mm                 | M20S          |
| PCC28/M25S/A  | 28mm                 | M25S          |
| PCC34/M32S/A  | 34mm                 | M32S          |
| PCC42/M40S/A  | 42mm                 | M40S          |
| PCC54/M50S/A  | 54mm                 | M50S          |

\*These parts are not covered by the RU certification

#### Approvals



#### IP Rating

#### Appropriate Conduit

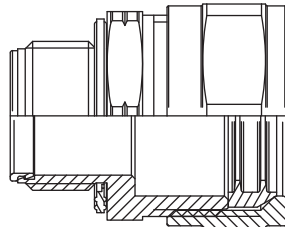
For use with: Type PA / PI / CP / PR / PADL & PF

|      |                    |
|------|--------------------|
| IP66 | Yes                |
| IP67 | Yes                |
| IP68 | Yes (4 bar 30mins) |
| IP69 | Yes                |

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C



Standard thread length



# Non-metallic conduit systems

## Type PCC/PCF - CS90



Type PCC/PCF - CS90  
90° Elbow Fitting

### Type PCC/PCF - CS90

90° Elbow Fitting - Swivel External Male Thread / For insertion into threaded entries and knockouts using a locknut.

Locknut supplied separately

**Materials:** Polyamide (Nylon) 66, Nickel Plated Brass, Neoprene Seals / **Colour:** Black (BL) Only

#### Standard thread length

| Part No.        | Nominal Conduit Size | Metric Thread |
|-----------------|----------------------|---------------|
| PCF13/M16/CS90* | 13mm                 | M16           |
| PCF16/M16/CS90  | 16mm                 | M16           |
| PCF21/M20/CS90  | 21mm                 | M20           |
| PCC28/M25/CS90  | 28mm                 | M25           |
| PCC34/M32/CS90  | 34mm                 | M32           |
| PCC42/M40/CS90  | 42mm                 | M40           |
| PCC54/M50/CS90  | 54mm                 | M50           |

#### Short thread length

| Part No.         | Nominal Conduit Size | Metric Thread |
|------------------|----------------------|---------------|
| PCF13/M16S/CS90* | 13mm                 | M16S          |
| PCF16/M16S/CS90  | 16mm                 | M16S          |
| PCF21/M20S/CS90  | 21mm                 | M20S          |
| PCC28/M25S/CS90  | 28mm                 | M25S          |
| PCC34/M32S/CS90  | 34mm                 | M32S          |
| PCC42/M40S/CS90  | 42mm                 | M40S          |
| PCC54/M50S/CS90  | 54mm                 | M50S          |

#### Housing to suit Jacob cable gland

| Part No.          | Nominal Conduit Size | Metric Thread |
|-------------------|----------------------|---------------|
| PCF13/M16/CS90/J* | 13mm                 | M16           |
| PCF16/M16/CS90/J  | 16mm                 | M16           |
| PCF21/M20/CS90/J  | 21mm                 | M20           |
| PCC28/M25/CS90/J  | 28mm                 | M25           |
| PCC34/M32/CS90/J  | 34mm                 | M32           |
| PCC42/M40/CS90/J  | 42mm                 | M40           |
| PCC54/M50/CS90/J  | 54mm                 | M50           |

#### Fitting complete with cable gland

| Part No.           | Nominal Conduit Size | Metric Thread |
|--------------------|----------------------|---------------|
| PCF13/M16/S45/JRL* | 13mm                 | M16           |
| PCF16/M16/S45/JRL  | 16mm                 | M16           |
| PCF21/M20/S45/JRL  | 21mm                 | M20           |
| PCC28/M25/S45/JRL  | 28mm                 | M25           |
| PCC34/M32/S45/JRL  | 34mm                 | M32           |
| PCC42/M40/S45/JRL  | 42mm                 | M40           |
| PCC54/M50/S45/JRL  | 54mm                 | M50           |
| PCF21/M20/S45/JLL  | 21mm                 | M20           |
| PCC28/M25/S45/JLL  | 28mm                 | M25           |
| PCC34/M32/S45/JLL  | 34mm                 | M32           |
| PCC42/M40/S45/JLL  | 42mm                 | M40           |
| PCC54/M50/S45/JLL  | 54mm                 | M50           |

To order quote part number & body colour, e.g. PCF13/M16/CS90/BL

\*These parts are not covered by the RU certification

#### Approvals



#### IP Rating

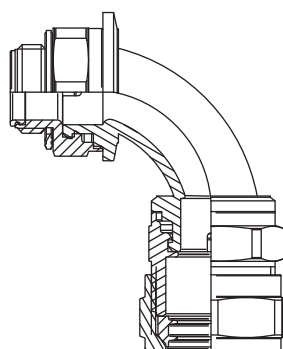
For use with: Type PA / PI / CP / PR / PADL & PF

| IP Rating | Appropriate Conduit |
|-----------|---------------------|
| IP66      | Yes                 |
| IP67      | Yes                 |
| IP68      | Yes (4 bar 30mins)  |
| IP69      | Yes                 |

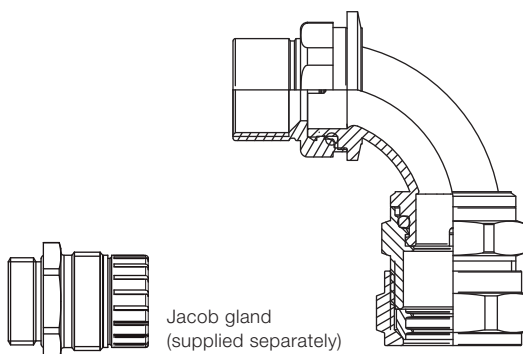
#### Temperature Range

Static Applications: -50°C to +120°C  
Moving Applications: -45°C to +120°C

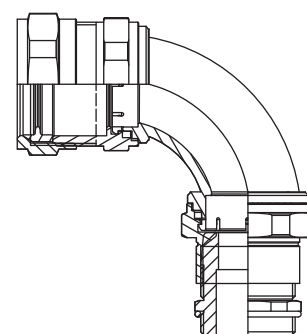
#### Fitting Characteristics



Standard thread length



Housing to suit Jacob cable gland  
Jacob gland  
(supplied separately)



Fitting complete with cable gland

# Non-metallic conduit systems

## Type PCC/PCF - S45

2



Type PCC/PCF - S45  
45° elbow fitting

### Type PCC/PCF - S45

**Composite 45° elbow fitting - Swivel external male thread** / For insertion into threaded entries and knockouts using a locknut.

Locknut supplied separately

**Materials:** Polyamide (Nylon) 66, Nickel Plated Brass, Neoprene Seals / **Colour:** Black (BL) Only

#### Standard thread length

| Part No.       | Nominal Conduit Size | Metric Thread |
|----------------|----------------------|---------------|
| PCF13/M16/S45* | 13mm                 | M16           |
| PCF16/M16/S45  | 16mm                 | M16           |
| PCF21/M20/S45  | 21mm                 | M20           |
| PCC28/M25/S45  | 28mm                 | M25           |
| PCC34/M32/S45  | 34mm                 | M32           |
| PCC42/M40/S45  | 42mm                 | M40           |
| PCC54/M50/S45  | 54mm                 | M50           |

#### Short thread length

| Part No.        | Nominal Conduit Size | Metric Thread |
|-----------------|----------------------|---------------|
| PCF13/M16S/S45* | 13mm                 | M16S          |
| PCF16/M16S/S45  | 16mm                 | M16S          |
| PCF21/M20S/S45  | 21mm                 | M20S          |
| PCC28/M25S/S45  | 28mm                 | M25S          |
| PCC34/M32S/S45  | 34mm                 | M32S          |
| PCC42/M40S/S45  | 42mm                 | M40S          |
| PCC54/M50S/S45  | 54mm                 | M50S          |

#### Housing to suit Jacob cable gland

| Part No.         | Nominal Conduit Size | Metric Thread |
|------------------|----------------------|---------------|
| PCF13/M16/S45/J* | 13mm                 | M16           |
| PCF16/M16/S45/J  | 16mm                 | M16           |
| PCF21/M20/S45/J  | 21mm                 | M20           |
| PCC28/M25/S45/J  | 28mm                 | M25           |
| PCC34/M32/S45/J  | 34mm                 | M32           |
| PCC42/M40/S45/J  | 42mm                 | M40           |
| PCC54/M50/S45/J  | 54mm                 | M50           |

#### Fitting complete with cable gland

| Part No.           | Nominal Conduit Size | Metric Thread |
|--------------------|----------------------|---------------|
| PCF13/M16/S45/JRL* | 13mm                 | M16           |
| PCF16/M16/S45/JRL  | 16mm                 | M16           |
| PCF21/M20/S45/JRL  | 21mm                 | M20           |
| PCC28/M25/S45/JRL  | 28mm                 | M25           |
| PCC34/M32/S45/JRL  | 34mm                 | M32           |
| PCC42/M40/S45/JRL  | 42mm                 | M40           |
| PCC54/M50/S45/JRL  | 54mm                 | M50           |
| PCF21/M20/S45/JLL  | 21mm                 | M20           |
| PCC28/M25/S45/JLL  | 28mm                 | M25           |
| PCC34/M32/S45/JLL  | 34mm                 | M32           |
| PCC42/M40/S45/JLL  | 42mm                 | M40           |
| PCC54/M50/S45/JLL  | 54mm                 | M50           |

To order quote part number & body colour, e.g. PCF13/M16/S45/BL

\*These parts are not covered by the RU certification

#### Approvals



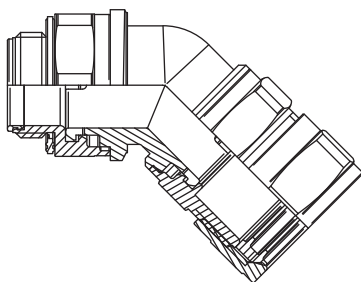
#### IP Rating

| IP Rating   | Appropriate Conduit |
|---|---------------------|
| <b>For use with:</b> Type PA / PI / CP / PR / PADL & PF |                     |
| IP66  | Yes                 |
| IP67  | Yes                 |
| IP68  | Yes (4 bar 30mins)  |
| IP69  | Yes                 |

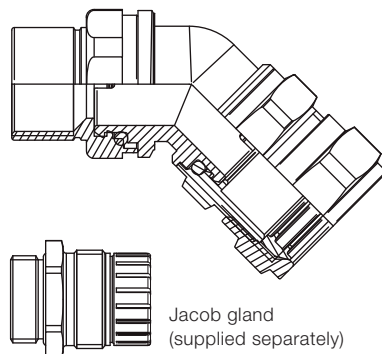
#### Temperature Range

Static Applications: -50°C to +120°C  
Moving Applications: -45°C to +120°C

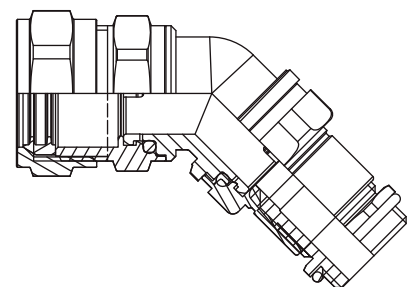
#### Fitting Characteristics



Standard thread length



Housing to suit Jacob cable gland



Fitting complete with cable gland

# Non-metallic conduit systems

## Type A & C90 - Adaptaseal



Type A  
Straight Fitting

### Type A - Adaptaseal

**Straight Fitting - Fixed External Male Thread** / For insertion into knockouts using a locknut. Locknut supplied with METRIC THREAD ONLY

**Materials:** Polyamide (Nylon) 66 / **Colour:** Black (BL), Grey (GR)

| Part No.    | Nominal Conduit Size | Metric Thread | Part No.     | Nominal Conduit Size | PG Thread |
|-------------|----------------------|---------------|--------------|----------------------|-----------|
| ASF10/M16/A | 10mm                 | M16           | ASF10/PG9/A  | 10mm                 | PG9       |
| ASF13/M16/A | 13mm                 | M16           | ASF13/PG9/A  | 13mm                 | PG9       |
| ASF16/M16/A | 16mm                 | M16           | ASF16/PG11/A | 16mm                 | PG11      |
| ASF16/M20/A | 16mm                 | M20           | ASF16/PG13/A | 16mm                 | PG13,5    |
| ASF21/M20/A | 21mm                 | M20           | ASF21/PG16/A | 21mm                 | PG16      |
| ASC21/M20/A | 21mm                 | M20           | ASC21/PG16/A | 21mm                 | PG16      |
| ASF28/M25/A | 28mm                 | M25           | ASF28/PG21/A | 28mm                 | PG21      |
| ASC28/M25/A | 28mm                 | M25           | ASC28/PG21/A | 28mm                 | PG21      |
| ASF34/M32/A | 34mm                 | M32           | ASF34/PG29/A | 34mm                 | PG29      |
| ASC34/M32/A | 34mm                 | M32           | ASC34/PG29/A | 34mm                 | PG29      |
| ASC42/M40/A | 42mm                 | M40           | ASC42/PG36/A | 42mm                 | PG36      |
| ASC54/M50/A | 54mm                 | M50           | ASC54/PG48/A | 54mm                 | PG48      |

To order quote part number & body colour, e.g. ASF10/M16/A/BL

PF & NPT thread sizes available

### Approvals



| IP Rating  | Appropriate Conduit | Temperature Range                    |
|--|---------------------|--------------------------------------|
| <b>For use with:</b> Type PA / PI / CP / PR / PF |                     |                                      |
| IP66   | Yes                 | Static Applications: -40°C to +120°C |
| IP67   | Yes                 | Moving Applications: -5°C to +120°C  |
| IP68   | Yes (2 bar 30mins)  |                                      |
| IP69   | Yes                 |                                      |



Type C90  
90° Elbow Fitting

### Type C90 - Adaptaseal

**90° Elbow Fitting - Fixed External Male Thread** / For insertion into knockouts using a locknut. Locknut supplied with METRIC THREAD ONLY

**Materials:** Polyamide (Nylon) 66 / **Colour:** Black (BL), Grey (GR)

| Part No.      | Nominal Conduit Size | Metric Thread | Part No.       | Nominal Conduit Size | PG Thread |
|---------------|----------------------|---------------|----------------|----------------------|-----------|
| ASF10/M16/C90 | 10mm                 | M16           | ASF10/PG9/C90  | 10mm                 | PG9       |
| ASF13/M16/C90 | 13mm                 | M16           | ASF13/PG9/C90  | 13mm                 | PG9       |
| ASF16/M16/C90 | 16mm                 | M16           | ASF16/PG11/C90 | 16mm                 | PG11      |
| ASF16/M20/C90 | 16mm                 | M20           | ASF16/PG13/C90 | 16mm                 | PG13,5    |
| ASF21/M20/C90 | 21mm                 | M20           | ASF21/PG16/C90 | 21mm                 | PG16      |
| ASC21/M20/C90 | 21mm                 | M20           | ASC21/PG16/C90 | 21mm                 | PG16      |
| ASF28/M25/C90 | 28mm                 | M25           | ASF28/PG21/C90 | 28mm                 | PG21      |
| ASC28/M25/C90 | 28mm                 | M25           | ASC28/PG21/C90 | 28mm                 | PG21      |
| ASF34/M32/C90 | 34mm                 | M32           | ASF34/PG29/C90 | 34mm                 | PG29      |
| ASC34/M32/C90 | 34mm                 | M32           | ASC34/PG29/C90 | 34mm                 | PG29      |
| ASC42/M40/C90 | 42mm                 | M40           | ASC42/PG36/C90 | 42mm                 | PG36      |
| ASC54/M50/C90 | 54mm                 | M50           | ASC54/PG48/C90 | 54mm                 | PG48      |

To order quote part number & body colour, e.g. ASF10/M16/C90/BL

PF & NPT thread sizes available

### Approvals



| IP Rating  | Appropriate Conduit | Temperature Range                    |
|--|---------------------|--------------------------------------|
| <b>For use with:</b> Type PA / PI / CP / PR / PF |                     |                                      |
| IP66   | Yes                 | Static Applications: -40°C to +120°C |
| IP67   | Yes                 | Moving Applications: -5°C to +120°C  |
| IP68   | Yes (2 bar 30mins)  |                                      |
| IP69   | Yes                 |                                      |

# Non-metallic conduit systems

## Type FLC90/FL90 & T - Adaptaseal

2



Type FLC90/FL90  
90° Elbow Fitting

### Type FLC90/FL90 - Adaptaseal

90° Elbow Body - Panel Mount Swivel Flange / For panel mounting via 2/4 hole fixing & integral face seal

Materials: Polyamide (Nylon) 66 / Colour: Black (BL) Only

| Part No.     | Nominal Conduit Size |
|--------------|----------------------|
| ASF13/FL/C90 | 13mm                 |
| ASF16/FL/C90 | 16mm                 |
| ASF21/FL/C90 | 21mm                 |
| ASC21/FL/C90 | 21mm                 |
| ASF28/FL/C90 | 28mm                 |
| ASC28/FL/C90 | 28mm                 |
| ASF34/FL/90* | 34mm                 |
| ASC34/FL/90* | 34mm                 |
| ASC42/FL/90* | 42mm                 |
| ASC54/FL/90* | 54mm                 |

To order quote part number & body colour, e.g. ASF13/FL/C90/BL

\*These sizes are fixed panel mounting - non swivel

#### Approvals



| IP Rating  | Appropriate Conduit | Temperature Range                    |
|--|---------------------|--------------------------------------|
| <b>For use with:</b> Type PA / PI / CP / PR / PF |                     | Static Applications: -40°C to +120°C |
| IP66   | Yes                 | Moving Applications: -5°C to +120°C  |
| IP67   | Yes                 |                                      |
| IP68   | Yes (2 bar 30mins)  |                                      |
| IP69   | Yes                 |                                      |



Type T  
Inspection T-Piece

### Type T - Adaptaseal

Inspection T-Piece / For connection to corrugated flexible conduit

Materials: Polyamide (Nylon) 66 / Colour: Black (BL) Only

| Part No.  | Nominal Conduit Size |
|-----------|----------------------|
| ASF10X3/T | 10mm                 |
| ASF13X3/T | 13mm                 |
| ASF16X3/T | 16mm                 |
| ASF21X3/T | 21mm                 |
| ASC21X3/T | 21mm                 |
| ASF28X3/T | 28mm                 |
| ASC28X3/T | 28mm                 |
| ASF34X3/T | 34mm                 |
| ASC34X3/T | 34mm                 |

To order quote part number & body colour, e.g. ASF10X3/T/BL

#### Approvals



| IP Rating  | Appropriate Conduit | Temperature Range                    |
|--|---------------------|--------------------------------------|
| <b>For use with:</b> Type PA / PI / CP / PR / PF |                     | Static Applications: -40°C to +120°C |
| IP66   | Yes                 | Moving Applications: -5°C to +120°C  |
| IP67   | Yes                 |                                      |
| IP68   | N/A                 |                                      |
| IP69   | N/A                 |                                      |

# Non-metallic conduit systems

## Type RK & AWB - Adaptaseal



Type RK  
Reducing Kit

### Type RK - Adaptaseal

**Reducing Kit** / For connection to a reduced conduit size

**Materials:** Polyamide (Nylon) 66 & Neoprene Rubber / **Colour:** Black (BL) Only

| Nominal Conduit Size | Conduit Pitch | Part No.                    |                             |                             |                             |                             |
|----------------------|---------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
|                      |               | Reducing to Conduit Size 10 | Reducing to Conduit Size 13 | Reducing to Conduit Size 16 | Reducing to Conduit Size 21 | Reducing to Conduit Size 28 |
| 10mm                 | Fine          |                             |                             |                             |                             |                             |
| 13mm                 | Fine          | RK13-10                     |                             |                             |                             |                             |
| 16mm                 | Fine          | RK16-10                     | RK16-13                     |                             |                             |                             |
| 21mm                 | Fine          | RK21-10                     | RK21-13                     | RK21-16                     |                             |                             |
| 21mm                 | Coarse        | RK21-10                     | RK21-13                     | RK21-16                     |                             |                             |
| 28mm                 | Fine          |                             | RK28-13                     | RK28-16                     | RK28-21                     |                             |
| 28mm                 | Coarse        |                             | RK28-13                     | RK28-16                     | RK28-21                     |                             |
| 34mm                 | Fine          |                             |                             |                             | RK34-21                     | RK34-28                     |
| 34mm                 | Coarse        |                             |                             |                             | RK34-21                     | RK34-28                     |

To order quote part number, e.g. RK13-10/BL

### Approvals



| IP Rating  | Appropriate Conduit | Temperature Range                    |
|--|---------------------|--------------------------------------|
| <b>For use with:</b> Type PA / PI / CP / PR / PF |                     | Static Applications: -40°C to +120°C |
| IP66   | Yes                 | Moving Applications: -5°C to +120°C  |
| IP67   | Yes                 |                                      |
| IP68   | N/A                 |                                      |
| IP69   | N/A                 |                                      |



Type AWB  
Anti-Vibration Washer

### Type AWB - Adaptaseal

**Anti-Vibration Washer** / Prevents fitting loosening under vibration

**Materials:** Acetal (POM) / **Colour:** Black (BL) Only

| Part No. | Nominal Conduit Size |
|----------|----------------------|
| AWB13    | 13mm                 |
| AWB16    | 16mm                 |
| AWB21    | 21mm                 |
| AWB28    | 28mm                 |
| AWB34    | 34mm                 |

# Non-metallic conduit systems

## Type A & C90 - Adapting

2



Type A  
Straight Fitting

### Type A - Adapting

**Straight Fitting - Fixed External Male Thread** / For insertion into threaded entries & knockouts. Locknut supplied with METRIC THREAD ONLY

**Materials:** Polyamide (Nylon) 66 & Acetal (POM) / **Colour:** Black (BL) Only

| Part No.   | Nominal Conduit Size | Metric Thread | Part No.    | Nominal Conduit Size | PG Thread |
|------------|----------------------|---------------|-------------|----------------------|-----------|
| AR13/M16/A | 13mm                 | M16           | AR13/PG9/A  | 13mm                 | PG9       |
| AR16/M16/A | 16mm                 | M16           | AR16/PG11/A | 16mm                 | PG11      |
| AR16/M20/A | 16mm                 | M20           | AR16/PG13/A | 16mm                 | PG13,5    |
| AR21/M20/A | 21mm                 | M20           | AR21/PG16/A | 21mm                 | PG16      |
| AR28/M25/A | 28mm                 | M25           | AR28/PG21/A | 28mm                 | PG21      |
| AR34/M32/A | 34mm                 | M32           | AR34/PG29/A | 34mm                 | PG29      |
| AR42/M40/A | 42mm                 | M40           | AR42/PG36/A | 42mm                 | PG36      |
| AR54/M50/A | 54mm                 | M50           | AR54/PG48/A | 54mm                 | PG48      |

To order quote part number, e.g. AR21/M20/A/BL  
PF & NPT thread sizes available

#### Approvals



#### IP Rating

#### Appropriate Conduit

**For use with:** Type PA / PI / CP / PR / PF

| IP Rating | Appropriate Conduit |
|-----------|---------------------|
| IP40      | Yes                 |
| IP65      | N/A                 |
| IP66      | N/A                 |
| IP67      | N/A                 |
| IP68      | N/A                 |
| IP69      | N/A                 |

#### Temperature Range

Static Applications: -40°C to +120°C

Moving Applications: -5°C to +120°C

#### Fitting Characteristics



Type C90  
90° Elbow Fitting

### Type C90 - Adapting

**90° Elbow Fitting - Fixed External Male Thread** / For insertion into knockouts. Locknut supplied with METRIC THREAD ONLY

**Materials:** Polyamide (Nylon) 66 & Acetal (POM) / **Colour:** Black (BL) Only

| Part No.     | Nominal Conduit Size | Metric Thread |
|--------------|----------------------|---------------|
| AR13/M16/C90 | 13mm                 | M16           |
| AR16/M16/C90 | 16mm                 | M16           |
| AR16/M20/C90 | 16mm                 | M20           |
| AR21/M20/C90 | 21mm                 | M20           |
| AR28/M25/C90 | 28mm                 | M25           |
| AR34/M32/C90 | 34mm                 | M32           |
| AR42/M40/C90 | 42mm                 | M40           |
| AR54/M50/C90 | 54mm                 | M50           |

To order quote part number & body colour, e.g. AR21/M20/C90/BL  
PF & NPT thread sizes available

#### Approvals



#### IP Rating

#### Appropriate Conduit

**For use with:** Type PA / PI / CP / PR / PF

| IP Rating | Appropriate Conduit |
|-----------|---------------------|
| IP40      | Yes                 |
| IP65      | N/A                 |
| IP66      | N/A                 |
| IP67      | N/A                 |
| IP68      | N/A                 |
| IP69      | N/A                 |

#### Temperature Range

Static Applications: -40°C to +120°C

Moving Applications: -5°C to +120°C

#### Fitting Characteristics



# Non-metallic conduit systems

## Type T & AWB - Adapting



Type T  
Rotational Inspection T-Piece

### Type T - Adapting

**Rotational Inspection T-Piece** / For connection to corrugated flexible conduit

**Materials:** Polyamide (Nylon) 66 & Acetal (POM) / **Colour:** Black (BL) Only

| Part No. | Nominal Conduit Size |
|----------|----------------------|
| AR13X3/T | 13mm                 |
| AR16X3/T | 16mm                 |
| AR21X3/T | 21mm                 |
| AR28X3/T | 28mm                 |
| AR34X3/T | 34mm                 |

To order quote part number, e.g. AR13X3/T/BL

### Approvals



| IP Rating  | Appropriate Conduit | Temperature Range                    |
|--|---------------------|--------------------------------------|
| <b>For use with:</b> Type PA / PI / CP / PR / PF |                     | Static Applications: -40°C to +120°C |
| IP40   | Yes                 | Moving Applications: -5°C to +120°C  |
| IP65   | N/A                 |                                      |
| IP66   | N/A                 |                                      |
| IP67   | N/A                 |                                      |
| IP68   | N/A                 |                                      |
| IP69   | N/A                 |                                      |

### Fitting Characteristics



Type AWB  
Anti-Vibration Washer

### Type AWB - Adapting

**Anti-Vibration Washer** / Prevents fitting loosening under vibration

**Materials:** Acetal (POM) / **Colour:** Black (BL) Only

| Part No. | Nominal Conduit Size |
|----------|----------------------|
| AWB13    | 13mm                 |
| AWB16    | 16mm                 |
| AWB21    | 21mm                 |
| AWB28    | 28mm                 |
| AWB34    | 34mm                 |

# Non-metallic conduit systems

## Type KF - Korifit

2



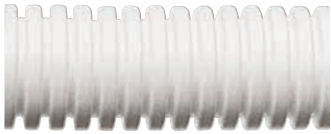
Type KF  
Lightweight Conduit

### Type KF - Korifit

Lightweight Conduit / Materials: PVCu / Colour: Grey (GR) Only

| Part No. | Nominal Conduit Size | NW Conduit Size | Conduit Pitch | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|-----------------|---------------|------------------|-----------------|------------------|-------------|
| KFL16    | 16mm                 | 13              | Fine          | 15.8mm           | 12.1mm          | 25mm             | 50m         |
| KFL20    | 20mm                 | 17              | Fine          | 19.8mm           | 14.5mm          | 30mm             | 50m         |
| KFL25    | 25mm                 | 22              | Fine          | 24.8mm           | 19.9mm          | 40mm             | 50m         |

To order quote part number, colour & reel length, e.g. KFL16/GR/50M



Type KF  
Standard Weight Conduit

### Type KF - Korifit

Standard Weight Conduit / Materials: PVCu / Colour: White (W) Only

| Part No. | Nominal Conduit Size | NW Conduit Size | Conduit Pitch | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|-----------------|---------------|------------------|-----------------|------------------|-------------|
| KFS16    | 16mm                 | 13              | Fine          | 15.8mm           | 11.9mm          | 25mm             | 50m         |
| KFS20    | 20mm                 | 17              | Fine          | 19.8mm           | 14.3mm          | 30mm             | 50m         |
| KFS25    | 25mm                 | 22              | Fine          | 24.8mm           | 19.7mm          | 40mm             | 50m         |

To order quote part number, colour & reel length, e.g. KFS16/W/50M



Type KF  
Medium Weight Conduit

### Type KF - Korifit

Medium Weight Conduit / Materials: PVCu / Colour: Black (BL) Only

| Part No. | Nominal Conduit Size | NW Conduit Size | Conduit Pitch | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|-----------------|---------------|------------------|-----------------|------------------|-------------|
| KFM16    | 16mm                 | 13              | Fine          | 15.8mm           | 11.9mm          | 25mm             | 50m         |
| KFM20    | 20mm                 | 17              | Fine          | 19.8mm           | 14.3mm          | 30mm             | 50m         |
| KFM25    | 25mm                 | 22              | Fine          | 24.8mm           | 19.7mm          | 40mm             | 50m         |

To order quote part number, colour & reel length, e.g. KFM16/BL/50M

#### Approvals



#### IP Rating

#### Appropriate Fitting

#### Temperature Range

#### UV Resistance

For use with: Korifit KC & KF

IP40 Korifit KC

IP65 Korifit KF

IP66 N/A

IP67 N/A

IP68 N/A

IP69 N/A

Static Applications: -5°C to +60°C

Moving Applications: -5°C to +60°C

#### Flexibility & Fatigue Life

Pliable - Low Fatigue Life

#### Fire Performance & EMI Screen

Self Extinguishing

High



# Non-metallic conduit systems

## Type KC/A & KC/C90 - Korifit



Type KC/A  
Straight Fitting

### Type KC/A - Korifit

**Straight Fitting - Fixed External Male Thread** / For insertion into threaded entries & knockouts. Locknut supplied

**Materials:** Polyamide (Nylon) 66 / **Colour:** Black (BL), Grey (GR), White (W)

| Part No.   | Nominal Conduit Size | Metric Thread |
|------------|----------------------|---------------|
| KC16/M16/A | 16mm                 | M16           |
| KC16/M20/A | 16mm                 | M20           |
| KC20/M20/A | 20mm                 | M20           |
| KC25/M25/A | 20mm                 | M25           |

To order quote part number & body colour, e.g. KC16/M16/A/BL

### Approvals



| IP Rating                            | Appropriate Conduit | Temperature Range                  |
|--------------------------------------|---------------------|------------------------------------|
| <b>For use with:</b> Korifit Type KF |                     |                                    |
| IP40                                 | Yes                 | Static Applications: -5°C to +60°C |
| IP65                                 | N/A                 | Moving Applications: -5°C to +60°C |
| IP66                                 | N/A                 |                                    |
| IP67                                 | N/A                 |                                    |
| IP68                                 | N/A                 |                                    |
| IP69                                 | N/A                 |                                    |

### Fitting Characteristics



Type KC/C90  
90° Elbow Fitting

### Type KC/C90 - Korifit

**90° Elbow Fitting - Fixed External Male Thread** / For insertion into knockouts. Locknut supplied

**Materials:** Polyamide (Nylon) 66 / **Colour:** Black (BL) Only

| Part No.     | Nominal Conduit Size | Metric Thread |
|--------------|----------------------|---------------|
| KC16/M16/C90 | 16mm                 | M16           |
| KC20/M20/C90 | 20mm                 | M20           |
| KC25/M25/C90 | 25mm                 | M25           |

To order quote part number & body colour, e.g. KC16/M16/C90/BL

### Approvals

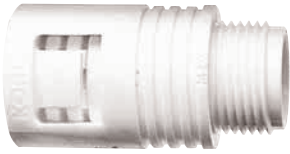


| IP Rating                            | Appropriate Conduit | Temperature Range                  |
|--------------------------------------|---------------------|------------------------------------|
| <b>For use with:</b> Korifit Type KF |                     |                                    |
| IP40                                 | Yes                 | Static Applications: -5°C to +60°C |
| IP65                                 | N/A                 | Moving Applications: -5°C to +60°C |
| IP66                                 | N/A                 |                                    |
| IP67                                 | N/A                 |                                    |
| IP68                                 | N/A                 |                                    |
| IP69                                 | N/A                 |                                    |

# Non-metallic conduit systems

## Type KF/A & Coupler - Korifit

2



Type KF/A  
Straight Fitting

### Type KF/A - Korifit

**Straight Fitting - Fixed External Male Thread** / For insertion into threaded entries & knockouts. Locknut supplied

**Materials:** Polyamide (Nylon) 66 / **Colour:** Black (BL), Grey (GR), White (W)

| Part No.   | Nominal Conduit Size | Metric Thread |
|------------|----------------------|---------------|
| KF16/M16/A | 16mm                 | M16           |
| KF16/M20/A | 16mm                 | M20           |
| KF20/M20/A | 20mm                 | M20           |
| KF25/M25/A | 25mm                 | M25           |

To order quote part number & body colour, e.g. KF16/M16/A/BL

#### Approvals



| IP Rating                            | Appropriate Conduit | Temperature Range                  |
|--------------------------------------|---------------------|------------------------------------|
| <b>For use with:</b> Korifit Type KF |                     | Static Applications: -5°C to +60°C |
| IP40                                 | N/A                 | Moving Applications: -5°C to +60°C |
| IP65                                 | Yes                 |                                    |
| IP66                                 | N/A                 |                                    |
| IP67                                 | N/A                 |                                    |
| IP68                                 | N/A                 |                                    |
| IP69                                 | N/A                 |                                    |

#### Fitting Characteristics



Coupler  
Straight One Piece Coupler

### Coupler - Korifit

**Straight One Piece Coupler** / For coupling two corrugated flexible conduits

**Materials:** Polyamide (Nylon) 66 / **Colour:** Colour White (W) Only

| Part No. | Nominal Conduit Size | NW Conduit Size |
|----------|----------------------|-----------------|
| KF2020   | 20mm                 | 17              |

To order quote part number & body colour, e.g. KF2020/W

#### Approvals



| IP Rating                            | Appropriate Conduit | Temperature Range                  |
|--------------------------------------|---------------------|------------------------------------|
| <b>For use with:</b> Korifit Type KF |                     | Static Applications: -5°C to +60°C |
| IP40                                 | N/A                 | Moving Applications: -5°C to +60°C |
| IP65                                 | Yes                 |                                    |
| IP66                                 | N/A                 |                                    |
| IP67                                 | N/A                 |                                    |
| IP68                                 | N/A                 |                                    |
| IP69                                 | N/A                 |                                    |

# Non-metallic conduit systems

## Polypropylene Type PP & PPA - Adaptalok



Type PP  
Medium Weight Conduit

### Polypropylene Type PP - Adaptalok

Medium Weight Conduit / Materials: Polypropylene / Colour: Black (BL) Only

| Part No. | Nominal Conduit Size | NW Conduit Size | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|-----------------|------------------|-----------------|------------------|-------------|
| PPFM13   | 13mm                 | 10              | 13.0mm           | 9.8mm           | 5mm              | 50m         |
| PPFM16   | 16mm                 | 13              | 15.8mm           | 12.1mm          | 35mm             | 50m         |
| PPFM21   | 21mm                 | 17              | 21.2mm           | 16.8mm          | 40mm             | 50m         |
| PPFM28   | 28mm                 | 23              | 28.5mm           | 23.1mm          | 60mm             | 50m         |
| PPFM34   | 34mm                 | 29              | 34.5mm           | 29.1mm          | 50mm             | 50m         |

To order quote part number, colour & reel length, e.g. PPFM16/BL/50M

#### Approvals



| IP Rating                                   | Appropriate Fitting    | Temperature Range                      | UV Resistance |
|---|------------------------|--|---------------|
| <b>For use with:</b> Polypropylene Type PPA |                        | Static Applications: -20°C to +90°C    | Medium        |
| IP40  | N/A                    | Moving Applications: -5°C to +105°C    |               |
| IP65  | N/A                    | <b>Flexibility &amp; Fatigue Life</b>  |               |
| IP66  | Polypropylene Type PPA | High Flexibility - Medium Fatigue Life |               |
| IP67  | N/A                    |  |               |
| IP68  | N/A                    |  |               |
| IP69  | N/A                    |  |               |



Type PPA  
Straight Fitting

### Polypropylene Type PPA - Adaptalok

Straight Fitting - Fixed External Male Thread / For insertion into knockouts using locknuts. Locknuts supplied


Materials: Polypropylene / Colour: Black (BL) Only

| Part No.     | Nominal Conduit Size | Metric Thread |
|--------------|----------------------|---------------|
| AL13/M16/PPA | 13mm                 | M16           |
| AL16/M16/PPA | 16mm                 | M16           |
| AL21/M20/PPA | 21mm                 | M20           |
| AL28/M25/PPA | 28mm                 | M25           |
| AL34/M32/PPA | 34mm                 | M32           |

To order quote part number & body colour, e.g. AL21/M20/PPA/BL

#### Approvals



| IP Rating                                  | Appropriate Conduit | Temperature Range                   | Fitting Characteristics   |
|--|---------------------|-------------------------------------|---|
| <b>For use with:</b> Polypropylene Type PP |                     | Static Applications: -20°C to +90°C |  |
| IP40                                       | N/A                 | Moving Applications: -5°C to +105°C |   |
| IP65                                       | N/A                 |                                     |   |
| IP66                                       | Yes                 |                                     |   |
| IP67                                       | N/A                 |                                     |   |
| IP68                                       | N/A                 |                                     |   |
| IP69                                       | N/A                 |                                     |   |

# Non-metallic conduit systems

## PVC Type XF & RF - Xtraflex / RF

2



Type XF  
Standard Weight Conduit

### PVC Type XF - Xtraflex

Standard Weight Conduit / Materials: PVCu Spiral with Plasticised PVC Covering / Colour: Black (BL) Only

| Part No. | Nominal Conduit Size | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|------------------|-----------------|------------------|-------------|
| XF12     | 12mm                 | 14.5mm           | 10mm            | 25mm             | 30m         |
| XF16     | 16mm                 | 16.5mm           | 12mm            | 30mm             | 30m         |
| XF20     | 20mm                 | 20.5mm           | 16mm            | 35mm             | 30m         |
| XF25     | 25mm                 | 27.5mm           | 22mm            | 50mm             | 30m         |
| XF32     | 32mm                 | 33.5mm           | 28mm            | 60mm             | 30m         |
| XF40     | 40mm                 | 44.0mm           | 38mm            | 80mm             | 30m         |
| XF50     | 50mm                 | 57.5mm           | 50mm            | 105mm            | 30m         |

To order quote part number & reel length, e.g. XF16/30M

#### Approvals

| IP Rating                    | Appropriate Fitting | Temperature Range                           | UV Resistance |
|------------------------------|---------------------|---|---------------|
| <b>For use with:</b> Type XF |                     | Static Applications: -5°C to +60°C          | High          |
| IP40                         | N/A                 | Moving Applications: -5°C to +60°C          |               |
| IP65                         | Type XF             | <b>Flexibility &amp; Fatigue Life</b>       |               |
| IP66                         | N/A                 | Very High Flexibility - Medium Fatigue Life |               |
| IP67                         | N/A                 | <b>Fire Performance &amp; EMI Screen</b>    |               |
| IP68                         | N/A                 | Self Extinguishing                          |               |
| IP69                         | N/A                 |   |               |



Type RF  
Heavyweight Conduit  
Smooth Bore

### PVC Type RF - RF

Heavyweight Conduit - Smooth Bore

Materials: PVCu Spiral with Plasticised PVC Covering / Colour: Black (BL), Grey (GR)

| Part No. | Nominal Conduit Size | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|------------------|-----------------|------------------|-------------|
| RF12     | 12mm                 | 14.5mm           | 10mm            | 25mm             | 30m         |
| RF16     | 16mm                 | 16.5mm           | 12mm            | 30mm             | 30m         |
| RF20     | 20mm                 | 20.5mm           | 16mm            | 35mm             | 30m         |
| RF25     | 25mm                 | 27.5mm           | 22mm            | 50mm             | 30m         |
| RF32     | 32mm                 | 33.5mm           | 28mm            | 60mm             | 30m         |

To order quote part number, colour & reel length, e.g. RF16/BL/30M

#### Approvals

| IP Rating                    | Appropriate Fitting | Temperature Range                        | UV Resistance |
|------------------------------|---------------------|--|---------------|
| <b>For use with:</b> Type RF |                     | Static Applications: -20°C to +60°C      | High          |
| IP40                         | N/A                 | Moving Applications: -5°C to +60°C       |               |
| IP65                         | N/A                 | <b>Flexibility &amp; Fatigue Life</b>    |               |
| IP66                         | N/A                 | Medium Flexibility - Medium Fatigue Life |               |
| IP67                         | Type RF             | <b>Fire Performance &amp; EMI Screen</b> |               |
| IP68                         | N/A                 | Self Extinguishing                       |               |
| IP69                         | N/A                 |  |               |

# Non-metallic conduit systems

## PVC Type A & C90 - XF



Type A  
Straight Fitting

### Type A - XF

**Straight Fitting - Fixed External Male Thread** / For insertion into threaded entries & knockouts. Locknuts supplied with METRIC THREAD ONLY


**Materials:** Polyamide (Nylon) 66 / **Colour:** Black (BL) Only

| Part No.   | Nominal Conduit Size | Metric Thread |
|------------|----------------------|---------------|
| XF12/M16/D | 12mm                 | M16           |
| XF16/M16/D | 16mm                 | M16           |
| XF16/M20/D | 16mm                 | M20           |
| XF20/M20/D | 20mm                 | M20           |
| XF25/M25/D | 25mm                 | M25           |
| XF32/M32/D | 32mm                 | M32           |
| XF40/M40/D | 40mm                 | M40           |
| XF50/M50/D | 50mm                 | M50           |

To order quote part number, e.g. XF16/M16/D

#### Approvals



| IP Rating                             | Appropriate Conduit | Temperature Range   |
|---------------------------------------|---------------------|---|
| <b>For use with:</b> Xtraflex Type XF |                     | Static Applications: -5°C to +60°C  |
| IP40                                  | N/A                 | Moving Applications: -5°C to +60°C  |
| IP65                                  | Yes                 | <b>Fitting Characteristics</b>  |
| IP66                                  | N/A                 |   |
| IP67                                  | N/A                 |   |
| IP68                                  | N/A                 |   |
| IP69                                  | N/A                 |   |



Type C90  
90° Elbow Fitting

### Type C90 - XF

**90° Elbow Fitting - Fixed External Male Thread** / For insertion into knockouts. Locknuts supplied with METRIC THREAD ONLY

**Materials:** Polyamide (Nylon) 66 / **Colour:** Black (BL) Only

| Part No.     | Nominal Conduit Size | Metric Thread |
|--------------|----------------------|---------------|
| XF16/M16/C90 | 16mm                 | M16           |
| XF20/M20/C90 | 20mm                 | M20           |
| XF25/M25/C90 | 25mm                 | M25           |
| XF32/M32/C90 | 32mm                 | M32           |

To order quote part number, e.g. XF16/M16/C90

#### Approvals



| IP Rating                             | Appropriate Conduit | Temperature Range                  |
|---------------------------------------|---------------------|------------------------------------|
| <b>For use with:</b> Xtraflex Type XF |                     | Static Applications: -5°C to +60°C |
| IP40                                  | N/A                 | Moving Applications: -5°C to +60°C |
| IP65                                  | Yes                 |                                    |
| IP66                                  | N/A                 |                                    |
| IP67                                  | N/A                 |                                    |
| IP68                                  | N/A                 |                                    |
| IP69                                  | N/A                 |                                    |

# Non-metallic conduit systems

## PVC Type A & C90 - RF

2



Type A  
Straight Fitting

### Type A - RF

**Straight Fitting - Fixed External Male Thread** / For insertion into threaded entries & knockouts. Locknuts supplied with METRIC THREAD ONLY


**Materials:** Polyamide (Nylon) 66 / **Colour:** Black (BL) Only

| Part No.   | Nominal Conduit Size | Metric Thread |
|------------|----------------------|---------------|
| RF12/M16/A | 12mm                 | M16           |
| RF16/M16/A | 16mm                 | M16           |
| RF16/M20/A | 16mm                 | M20           |
| RF20/M20/A | 20mm                 | M20           |
| RF25/M25/A | 25mm                 | M25           |
| RF32/M32/A | 32mm                 | M32           |

To order quote part number, e.g. RF16/M16/C90

#### Approvals



| IP Rating                             | Appropriate Conduit | Temperature Range   |
|---------------------------------------|---------------------|---|
| <b>For use with:</b> Xtraflex Type RF |                     | Static Applications: -5°C to +60°C  |
| IP40                                  | N/A                 | Moving Applications: -5°C to +60°C  |
| IP65                                  | N/A                 | <b>Fitting Characteristics</b>  |
| IP66                                  | N/A                 |   |
| IP67                                  | Yes                 |   |
| IP68                                  | N/A                 |   |
| IP69                                  | N/A                 |   |



Type C90  
90° Elbow Fitting

### Type C90 - RF

**90° Elbow Fitting - Fixed External Male Thread** / For insertion into knockouts. Locknuts supplied with METRIC THREAD ONLY

**Materials:** Polyamide (Nylon) 66 / **Colour:** Black (BL) Only

| Part No.     | Nominal Conduit Size | Metric Thread |
|--------------|----------------------|---------------|
| RF16/M16/C90 | 16mm                 | M16           |
| RF20/M20/C90 | 20mm                 | M20           |
| RF25/M25/C90 | 25mm                 | M25           |
| RF32/M32/C90 | 32mm                 | M32           |

To order quote part number, e.g. RF16/M16/C90

#### Approvals



| IP Rating                             | Appropriate Conduit | Temperature Range                  |
|---------------------------------------|---------------------|------------------------------------|
| <b>For use with:</b> Xtraflex Type RF |                     | Static Applications: -5°C to +60°C |
| IP40                                  | N/A                 | Moving Applications: -5°C to +60°C |
| IP65                                  | N/A                 |                                    |
| IP66                                  | N/A                 |                                    |
| IP67                                  | Yes                 |                                    |
| IP68                                  | N/A                 |                                    |
| IP69                                  | N/A                 |                                    |

# Non-metallic conduit systems

## Accessories - Type LNP, SW & AC



Type LNP  
Nylon Locknuts

### Type LNP

**Nylon Locknuts** / **Materials:** Polyamide (Nylon) 6 / **Colour:** Black (BL), Grey (GR)

| Part No. |          |               | Part No.  |           | PG Thread |
|----------|----------|---------------|-----------|-----------|-----------|
| Black    | Grey     | Metric Thread | Black     | Grey      |           |
| LNPB/M12 | -        | M12           | LNPB/PG7  | LNPG/PG7  | PG7       |
| LNPB/M16 | LNPG/M16 | M16           | LNPB/PG9  | LNPG/PG9  | PG9       |
| LNPB/M20 | LNPG/M20 | M20           | LNPB/PG11 | LNPG/PG11 | PG11      |
| LNPB/M25 | LNPG/M25 | M25           | LNPB/PG13 | LNPG/PG13 | PG13      |
| LNPB/M32 | LNPG/M32 | M32           | LNPB/PG16 | LNPG/PG16 | PG16      |
| LNPB/M40 | LNPG/M40 | M40           | LNPB/PG21 | LNPG/PG21 | PG21      |
| LNPB/M50 | LNPG/M50 | M50           | LNPB/PG29 | LNPG/PG29 | PG29      |
| LNPB/M63 | LNPG/M63 | M63           | LNPB/PG36 | LNPG/PG36 | PG36      |
|          |          |               | LNPB/PG42 | LNPG/PG42 | PG42      |
|          |          |               | LNPB/PG48 | LNPG/PG48 | PG48      |



Type SW  
Thread Sealing Washer

### Type SW

**Thread Sealing Washer** / TPE - For use with Nylon threaded fittings. Nylon - For use with swivel metal threaded fittings

**Colour:** Black (BL), Yellow (Y), Blue (B)

| Part No. | Metric Thread | Part No. | PG Thread | Part No. | NPT & PF Thread |
|----------|---------------|----------|-----------|----------|-----------------|
| SWM12*   | M12           | SWPG07   | PG07      | SW038    | 3/8"            |
| SWM16    | M16           | SWPG09   | PG09      | SW050    | 1/2"            |
| SWM20    | M20           | SWPG11   | PG11      | SW075    | 3/4"            |
| SWM25    | M25           | SWPG13   | PG13      | SW100    | 1"              |
| SWM32    | M32           | SWPG16   | PG16      | SW125    | 1 1/4"          |
| SWM40    | M40           | SWPG21   | PG21      | SW150    | 1 1/2"          |
| SWM50    | M50           | SWPG29   | PG29      | SW200    | 2"              |
| SWM63    | M63           | SWPG36   | PG36      |          |                 |
| SWM63    | M63           | SWPG42   | PG42      |          |                 |
|          |               | SWPG48   | PG48      |          |                 |

To order quote part number & body colour, TPE Black only, e.g. SWM12,

Nylon (N) - Black (BL), Blue (B) & Yellow (Y) Metric and NPT threads only, e.g. SWM32NB

\*Not available in Nylon



Type AC  
Conduit Clips

### Type AC

**Conduit Clips** / With integral lid

**Materials:** Polyamide (Nylon) 66, Impact Modified Nylon - ST Version Only / **Colour:** Black (BL), Grey (GR)

| Part No. |       |                              | Nominal Conduit Size |
|----------|-------|------------------------------|----------------------|
| Black    | Grey  | Impact Modified (Black Only) |                      |
| ACB10    | ACG10 |                              | 10mm                 |
| ACB13    | ACG13 | ACB13/ST                     | 13mm                 |
| ACB16    | ACG16 | ACB16/ST                     | 16mm                 |
| ACB21    | ACG21 | ACB21/ST                     | 21mm                 |
| ACB28    | ACG28 | ACB28/ST                     | 28mm                 |
| ACB34    | ACG34 | ACB34/ST                     | 34mm                 |
| ACB42    | ACG42 | ACB42/ST                     | 42mm                 |
| ACB54    | ACG54 | ACB54/ST                     | 54mm                 |

# Non-metallic conduit systems

## Accessories - Type GZ, EC & RT

2



Type GZ  
End Sleeves

### Type GZ

**End Sleeves** / For sealing cables to non-metallic conduit

**Materials:** Rubber / **Colour:** Black (BL) Only

| Part No. | Nominal Conduit Size |
|----------|----------------------|
| GZ9      | 13mm                 |
| GZ11     | 16mm                 |
| GZ13     | 21mm                 |
| GZ21     | 28mm                 |
| GZ29     | 34mm                 |
| GZ36     | 42mm                 |



Type EC  
End Caps

### Type EC

**End Caps** / Provides a smooth finish to conduit preventing any damage to cables when not terminated with a fitting

**Materials:** Acetal (POM) / **Colour:** Black (BL) Only

| Part No. | Nominal Conduit Size |
|----------|----------------------|
| ECB13    | 13mm                 |
| ECB16    | 16mm                 |
| ECB21    | 21mm                 |
| ECB28    | 28mm                 |
| ECB34    | 34mm                 |
| ECB42    | 42mm                 |
| ECB54    | 54mm                 |



Type RT  
Adaptalok Removal Tool

### Type RT

**Adaptalok Removal Tool** / To provide easy removal of Adaptalok & ATS Fittings

**Materials:** Polyamide (Nylon) 6 / **Colour:** Black (BL) Only

| Part No. | Adaptalok Fitting Size |
|----------|------------------------|
| AL13RT   | 13mm                   |
| AL16RT   | 16mm                   |
| AL21RT   | 21mm                   |
| AL28RT   | 28mm                   |
| AL34RT   | 34mm                   |
| AL42RT   | 42mm                   |
| AL54RT   | 54mm                   |

NOTE: For a 13-34mm set use part number ALRTSET



# Non-metallic conduit systems

## Accessories - Type MB



Type MB  
Manifold Box

### Type MB

**Manifold Box - Multiway Adapters** / Non metallic enclosure which can be machined to take upto eight Adaptalok ATS™ fittings

**Materials:** Polyamide (Nylon) 66/TPE / **Colour:** Black (BL) Only / Yellow (Y) Elastomer

| Part No. | External Dimensions<br>Lid (mm) Dia X Height | External Dimensions<br>Fixing Lugs (mm) | Max Threaded<br>Entry Per Face |
|----------|--|---|--------------------------------|
| MB21     | 100 x 40                                     | 120                                     | M20                            |
| MB34     | 136 x 55                                     | 155                                     | M32                            |

To order quote part number, body colour & Elastomer colour, e.g. MB21/BLY

Non metallic enclosure which can be machined to take upto eight Adaptalok ATS™ fittings (or other devices) in a variety of configurations and sizes, e.g. 'Y', 'T', 'X', 'V' etc. Each box has a removable cover for ease of access. The box seal is moulded, so remains captive. Each manifold is provided with eight blank sides which require drilling/machining to suit the application. Manifolds can be supplied ready drilled to order, subject to minimum order quantities. Threaded fittings with locknuts can be used in each entry.

### Approvals



| IP Rating  | Appropriate Fitting | Temperature Range                    | UV Resistance |
|--|---------------------|--------------------------------------|---------------|
| <b>For use with:</b> All threaded fittings in this catalogue |                     | Static Applications: -50°C to +120°C | Very High     |
| IP66   | Yes                 | Moving Applications: -45°C to +120°C |               |
| IP67   | Yes                 |                                      |               |
| IP68   | Yes (2 bar 30mins)  |                                      |               |
| IP69   | Yes                 |                                      |               |

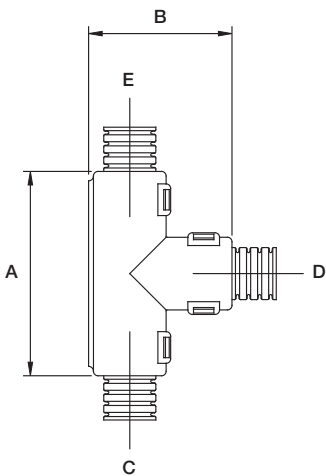
# Non-metallic conduit systems

## Accessories - Type T, Hinged 'T' Piece

2



Type PA  
Hinged 'T' Piece



### Type T

Hinged 'T' Piece / Materials: Polyamide (Nylon) 66 / Colour: Black (BL)

|            | Part No.   | Nominal Dimensions / Conduit Size |        |        |      |      |
|------------|------------|-----------------------------------|--------|--------|------|------|
|            |            | A                                 | B      | C      | D    | E    |
| <b>10T</b> | T101010/BL | 45.2mm                            | 31.1mm | 10mm   | 10mm | 10mm |
|            | T101310/BL | 45.2mm                            | 31.1mm | 10mm   | 13mm | 10mm |
|            | T101613/BL | 45.2mm                            | 31.1mm | 10mm   | 16mm | 13mm |
| <b>13T</b> | T131010/BL | 45.2mm                            | 31.1mm | 13mm   | 10mm | 10mm |
|            | T131013/BL | 45.2mm                            | 31.1mm | 13mm   | 10mm | 13mm |
|            | T131310/BL | 45.2mm                            | 31.1mm | 13mm   | 13mm | 10mm |
|            | T131313/BL | 45.2mm                            | 31.1mm | 13mm   | 13mm | 13mm |
|            | T131613/BL | 45.2mm                            | 31.1mm | 13mm   | 16mm | 13mm |
| <b>16T</b> | T161013/BL | 49.1mm                            | 34.8mm | 16mm   | 10mm | 13mm |
|            | T161313/BL | 49.1mm                            | 34.8mm | 16mm   | 13mm | 13mm |
|            | T161316/BL | 49.1mm                            | 34.8mm | 16mm   | 13mm | 16mm |
|            | T161613/BL | 49.1mm                            | 34.8mm | 16mm   | 16mm | 13mm |
|            | T161616/BL | 49.1mm                            | 34.8mm | 16mm   | 16mm | 16mm |
|            | T162113/BL | 49.1mm                            | 34.8mm | 16mm   | 21mm | 13mm |
|            | T162116/BL | 49.1mm                            | 34.8mm | 16mm   | 21mm | 16mm |
| <b>21T</b> | T211016/BL | 56.5mm                            | 41.0mm | 21mm   | 10mm | 16mm |
|            | T211021/BL | 56.5mm                            | 41.0mm | 21mm   | 10mm | 21mm |
|            | T211316/BL | 56.5mm                            | 41.0mm | 21mm   | 13mm | 16mm |
|            | T211321/BL | 56.5mm                            | 41.0mm | 21mm   | 13mm | 21mm |
|            | T211613/BL | 56.5mm                            | 41.0mm | 21mm   | 16mm | 13mm |
|            | T211616/BL | 56.5mm                            | 41.0mm | 21mm   | 16mm | 16mm |
|            | T211621/BL | 56.5mm                            | 41.0mm | 21mm   | 16mm | 21mm |
|            | T212113/BL | 56.5mm                            | 41.0mm | 21mm   | 21mm | 13mm |
|            | T212116/BL | 56.5mm                            | 41.0mm | 21mm   | 21mm | 16mm |
|            | T212121/BL | 56.5mm                            | 41.0mm | 21mm   | 21mm | 21mm |
| <b>28T</b> | T281021/BL | 64.5mm                            | 48.5mm | 28mm   | 10mm | 21mm |
|            | T281028/BL | 64.5mm                            | 48.6mm | 28mm   | 10mm | 28mm |
|            | T281321/BL | 64.5mm                            | 48.6mm | 28mm   | 13mm | 21mm |
|            | T281328/BL | 64.5mm                            | 48.6mm | 28mm   | 13mm | 28mm |
|            | T281621/BL | 64.5mm                            | 48.6mm | 28mm   | 16mm | 21mm |
|            | T281628/BL | 64.5mm                            | 48.6mm | 28mm   | 16mm | 28mm |
|            | T282121/BL | 64.5mm                            | 48.6mm | 28mm   | 21mm | 21mm |
|            | T282128/BL | 64.5mm                            | 48.6mm | 28mm   | 21mm | 28mm |
|            | T282828/BL | 64.5mm                            | 48.6mm | 28mm   | 28mm | 28mm |
|            | <b>34T</b> | T341634/BL                        | 72.0mm | 55.3mm | 34mm | 16mm |
| T342128/BL |            | 72.0mm                            | 55.3mm | 34mm   | 21mm | 28mm |
| T342134/BL |            | 72.0mm                            | 55.3mm | 34mm   | 21mm | 34mm |
| T343434/BL |            | 72.0mm                            | 55.3mm | 34mm   | 34mm | 34mm |

### Approvals



### IP Rating

For use with: Type PA / PI / PR / PF

| IP Rating | Appropriate Conduit |
|-----------|---------------------|
| IP40      | Yes                 |
| IP65      | N/A                 |
| IP66      | N/A                 |
| IP67      | N/A                 |
| IP68      | N/A                 |
| IP69      | N/A                 |

### Temperature Range

Static Applications: -40°C to +120°C

Moving Applications: -5°C to +120°C

### Fitting Characteristics

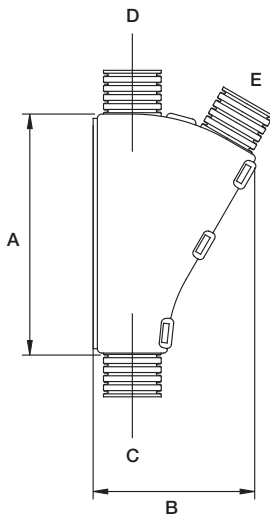
Snap Fit

# Non-metallic conduit systems

## Accessories - Type Y, Hinged 'Y' Piece



Type Y  
Hinged 'Y' Piece



### Type Y

Hinged 'Y' Piece / Materials: Polyamide (Nylon) 66 / Colour: Black (BL) Only

|            | Part No.   | Nominal Dimensions / Conduit Size |        |      |      |      |
|------------|------------|-----------------------------------|--------|------|------|------|
|            |            | A                                 | B      | C    | D    | E    |
| <b>10Y</b> | Y101010/BL | 54.6mm                            | 37.1mm | 10mm | 10mm | 10mm |
|            | Y101013/BL | 54.6mm                            | 37.1mm | 10mm | 10mm | 13mm |
|            | Y101210/BL | 54.6mm                            | 37.1mm | 10mm | 12mm | 10mm |
| <b>13Y</b> | Y131010/BL | 54.6mm                            | 37.1mm | 13mm | 10mm | 10mm |
|            | Y131011/BL | 54.6mm                            | 37.1mm | 13mm | 10mm | 11mm |
|            | Y131310/BL | 54.6mm                            | 37.1mm | 13mm | 13mm | 10mm |
|            | Y131313/BL | 54.6mm                            | 37.1mm | 13mm | 13mm | 13mm |
| <b>16Y</b> | Y161013/BL | 54.9mm                            | 39.8mm | 16mm | 10mm | 13mm |
|            | Y161310/BL | 54.9mm                            | 39.8mm | 16mm | 13mm | 10mm |
|            | Y161313/BL | 54.9mm                            | 39.8mm | 16mm | 13mm | 13mm |
|            | Y161610/BL | 54.9mm                            | 39.8mm | 16mm | 16mm | 10mm |
|            | Y161613/BL | 54.9mm                            | 39.8mm | 16mm | 16mm | 13mm |
| <b>21Y</b> | Y211010/BL | 42.8mm                            | 41.0mm | 21mm | 10mm | 10mm |
|            | Y211310/BL | 42.8mm                            | 41.0mm | 21mm | 13mm | 10mm |
|            | Y211313/BL | 42.8mm                            | 41.0mm | 21mm | 13mm | 13mm |
|            | Y211610/BL | 48.2mm                            | 39.8mm | 21mm | 16mm | 10mm |
|            | Y211613/BL | 48.2mm                            | 39.6mm | 21mm | 16mm | 13mm |
|            | Y211616/BL | 63.6mm                            | 47.5mm | 21mm | 16mm | 16mm |
|            | Y212110/BL | 57.9mm                            | 44.9mm | 21mm | 21mm | 10mm |
|            | Y212113/BL | 57.9mm                            | 44.9mm | 21mm | 21mm | 13mm |
|            | Y212116/BL | 63.6mm                            | 47.5mm | 21mm | 21mm | 16mm |
| <b>28Y</b> | Y282113/BL | 54.0mm                            | 48.8mm | 28mm | 21mm | 13mm |
|            | Y282116/BL | 54.0mm                            | 48.8mm | 28mm | 21mm | 16mm |
|            | Y282121/BL | 76.5mm                            | 60.0mm | 28mm | 21mm | 21mm |
|            | Y282810/BL | 67.3mm                            | 55.9mm | 28mm | 28mm | 10mm |
|            | Y282813/BL | 67.3mm                            | 55.9mm | 28mm | 28mm | 13mm |
|            | Y282816/BL | 67.3mm                            | 55.9mm | 28mm | 28mm | 16mm |
|            | Y282821/BL | 76.5mm                            | 60.0mm | 28mm | 28mm | 21mm |
|            | Y282828/BL | 90.7mm                            | 67.0mm | 28mm | 28mm | 28mm |
| <b>34Y</b> | Y343416/BL | 100.6mm                           | 75.0mm | 34mm | 34mm | 16mm |
|            | Y343421/BL | 100.6mm                           | 76.0mm | 34mm | 34mm | 21mm |
|            | Y343434/BL | 100.6mm                           | 82.1mm | 34mm | 34mm | 34mm |

### Approvals



### IP Rating

### Appropriate Conduit

For use with: Type PA / PI / PR / PF

|      |     |
|------|-----|
| IP40 | Yes |
| IP65 | N/A |
| IP66 | N/A |
| IP67 | N/A |
| IP68 | N/A |
| IP69 | N/A |

### Temperature Range

Static Applications: -40°C to +120°C

Moving Applications: -5°C to +120°C

### Fitting Characteristics

Snap Fit

# Non-metallic conduit systems

## Type PK & A - Peek

2



Type PK  
High Specification Conduit

### Polyetherketone Type PK - Peek

High Specification Conduit / Materials: Polyetherketone / Colour: Black (BL) Only

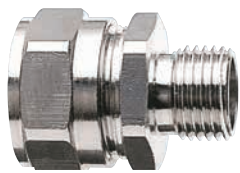
| Part No. | Nominal Conduit Size | NW Conduit Size | Conduit Pitch | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|-----------------|---------------|------------------|-----------------|------------------|-------------|
| PKFS13   | 13mm                 | 10              | Fine          | 13.2mm           | 10.0mm          | 35mm             | 25, 50m     |
| PKFS16   | 16mm                 | 13              | Fine          | 16.3mm           | 11.7mm          | 45mm             | 25, 50m     |
| PKFS21   | 21mm                 | 17              | Fine          | 21.2mm           | 16.6mm          | 60mm             | 25, 50m     |
| PKCS28   | 28mm                 | 23              | Coarse        | 28.4mm           | 21.7mm          | 65mm             | 25, 50m     |
| PKCS34   | 34mm                 | 29              | Coarse        | 34.3mm           | 27.7mm          | 80mm             | 25, 50m     |

To order quote part number, colour & reel length, e.g. PKFS16/BL/50M

#### Approvals



| IP Rating                        | Appropriate Fitting | Temperature Range                        | UV Resistance |
|----------------------------------|---------------------|--|---------------|
| <b>For use with:</b> Peek Type A |                     | Static Applications: -60°C to +260°C     | Very High     |
| IP40                             | N/A                 | Moving Applications: -45°C to +260°C     |               |
| IP65                             | N/A                 | <b>Flexibility &amp; Fatigue Life</b>    |               |
| IP66                             | Peek Type A         | High Flexibility - High Fatigue Life     |               |
| IP67                             | Peek Type A         | <b>Fire Performance &amp; EMI Screen</b> |               |
| IP68                             | N/A                 | Self Extinguishing                       |               |
| IP69                             | N/A                 | Halogen Free                             |               |



Type A  
Straight Fitting

### Type A - Peek

Straight Fitting - Fixed External Male Thread / For insertion into knockouts using a locknut

Materials: Nickel Plated Brass & Silicone

| Part No.   | Nominal Conduit Size | Metric Thread |
|------------|----------------------|---------------|
| PK13/M16/A | 13mm                 | M16           |
| PK16/M16/A | 16mm                 | M16           |
| PK21/M20/A | 21mm                 | M20           |
| PK28/M25/A | 28mm                 | M25           |
| PK34/M32/A | 34mm                 | M32           |

#### Approvals



| IP Rating                         | Appropriate Conduit | Temperature Range                        |
|-----------------------------------|---------------------|--|
| <b>For use with:</b> Peek Type PK |                     | Static Applications: -60°C to +260°C     |
| IP40                              | N/A                 | Moving Applications: -45°C to +260°C     |
| IP65                              | N/A                 |  |
| IP66                              | Yes                 |  |
| IP67                              | Yes                 | <b>Fire Performance &amp; EMI Screen</b> |
| IP68                              | N/A                 |  |
| IP69                              | N/A                 |  |

# Non-metallic conduit systems

## Type PKTC & PKSS - Hi-Spec



Type PKTC  
High Specification,  
High EMI Screening Conduit

### Type PKTC - Hi-Spec

#### High Specification, High EMI Screening Conduit

Materials: Polyetherketone Conduit, Tinned Copper Overbraid

| Part No. | Nominal Conduit Size | NW Conduit Size | Conduit Pitch | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|-----------------|---------------|------------------|-----------------|------------------|-------------|
| PKFSTC13 | 13mm                 | 10              | Fine          | 14.1mm           | 10.0mm          | 35mm             | 25, 50m     |
| PKFSTC16 | 16mm                 | 13              | Fine          | 17.2mm           | 11.7mm          | 45mm             | 25, 50m     |
| PKFSTC21 | 21mm                 | 17              | Fine          | 23.6mm           | 16.6mm          | 60mm             | 25, 50m     |
| PKCSTC28 | 28mm                 | 23              | Coarse        | 30.0mm           | 21.7mm          | 65mm             | 25, 50m     |
| PKCSTC34 | 34mm                 | 29              | Coarse        | 36.0mm           | 27.7mm          | 80mm             | 25, 50m     |

To order quote part number & reel length, e.g. PKFSTC13/50M

#### Approvals



| IP Rating                               | Appropriate Fitting | Temperature Range   | UV Resistance  |
|---|---------------------|---|--|
| <b>For use with:</b> Hi-Spec Type A & B |                     | Static Applications: -60°C to +260°C<br>Moving Applications: -45°C to +260°C  | Very High  |
| IP40                                    | N/A                 | <b>Flexibility &amp; Fatigue Life</b><br>High Flexibility - High Fatigue Life | <b>Fire Performance &amp; EMI Screen</b><br>Self Extinguishing<br>Halogen Free |
| IP65                                    | N/A                 |   |  |
| IP66                                    | Hi-Spec Type A & B  |   |  |
| IP67                                    | Hi-Spec Type A & B  |   |  |
| IP68                                    | N/A                 |   |  |
| IP69                                    | N/A                 |   |  |



Type PKSS  
High Specification,  
Standard EMI Screening Conduit

### Type PKSS - Hi-Spec

#### High Specification, Standard EMI Screening Conduit

Materials: Polyetherketone Conduit, Stainless Steel Overbraid

| Part No. | Nominal Conduit Size | NW Conduit Size | Conduit Pitch | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|-----------------|---------------|------------------|-----------------|------------------|-------------|
| PKFSSS13 | 13mm                 | 10              | Fine          | 14.1mm           | 10.0mm          | 35mm             | 25, 50m     |
| PKFSSS16 | 16mm                 | 13              | Fine          | 17.2mm           | 11.7mm          | 45mm             | 25, 50m     |
| PKFSSS21 | 21mm                 | 17              | Fine          | 23.6mm           | 16.6mm          | 60mm             | 25, 50m     |
| PKCSSS28 | 28mm                 | 23              | Coarse        | 30.0mm           | 21.7mm          | 65mm             | 25, 50m     |
| PKCSSS34 | 34mm                 | 29              | Coarse        | 36.0mm           | 27.7mm          | 80mm             | 25, 50m     |

To order quote part number & reel length, e.g. PKFSSS13/50M

#### Approvals



| IP Rating                               | Appropriate Fitting | Temperature Range   | UV Resistance  |
|---|---------------------|---|--|
| <b>For use with:</b> Hi-Spec Type A & B |                     | Static Applications: -60°C to +260°C<br>Moving Applications: -45°C to +260°C  | Very High  |
| IP40                                    | N/A                 | <b>Flexibility &amp; Fatigue Life</b><br>High Flexibility - High Fatigue Life | <b>Fire Performance &amp; EMI Screen</b><br>Self Extinguishing<br>Halogen Free |
| IP65                                    | N/A                 |   |  |
| IP66                                    | Hi-Spec Type A & B  |   |  |
| IP67                                    | Hi-Spec Type A & B  |   |  |
| IP68                                    | N/A                 |   |  |
| IP69                                    | N/A                 |   |  |



# Non-metallic conduit systems

## Type PRTC & PRSS - Hi-Spec

2



Type PRTC  
High Specification,  
High EMI Screening Conduit

### Type PRTC - Hi-Spec

#### High Specification, High EMI Screening Conduit



Materials: PA (Nylon) 6 Conduit, Tinned Copper overbraid

| Part No. | Nominal Conduit Size | NW Conduit Size | Conduit Pitch | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|-----------------|---------------|------------------|-----------------|------------------|-------------|
| PRFSTC16 | 16mm                 | 13              | Fine          | 17.2mm           | 11.7mm          | 35mm             | 50m         |
| PRFSTC21 | 21mm                 | 17              | Fine          | 23.6mm           | 16.6mm          | 60mm             | 50m         |
| PRCSTC28 | 28mm                 | 23              | Coarse        | 30.0mm           | 21.7mm          | 70mm             | 50m         |
| PRCSTC34 | 34mm                 | 29              | Coarse        | 36.0mm           | 27.7mm          | 75mm             | 50m         |
| PRCSTC42 | 42mm                 | 36              | Coarse        | 43.5mm           | 35.1mm          | 90mm             | 25m         |
| PRCSTC54 | 54mm                 | 48              | Coarse        | 56.5mm           | 46.6mm          | 95mm             | 25m         |

To order quote part number, colour & reel length, e.g. PAFL13/BL/50M

#### Approvals



| IP Rating                               | Appropriate Fitting | Temperature Range   | UV Resistance  |
|---|---------------------|---|--|
| <b>For use with:</b> Hi-Spec Type A & B |                     | Static Applications: -40°C to +120°C<br>Moving Applications: -5°C to +120°C   | Very High  |
| IP40                                    | N/A                 | <b>Flexibility &amp; Fatigue Life</b><br>High Flexibility - Medium Fatigue Life   | <b>Fire Performance &amp; EMI Screen</b><br>Self Extinguishing |
| IP65                                    | N/A                 |   |  |
| IP66                                    | Hi-Spec A & B       |   |  |
| IP67                                    | Hi-Spec A & B       |   |  |
| IP68                                    | N/A                 |   |  |
| IP69                                    | N/A                 |   |  |



Type PRSS  
High Specification,  
Standard EMI Screening Conduit

### Type PRSS - Hi-Spec

#### High Specification, Standard EMI Screening Conduit



Materials: PA (Nylon) 6 Conduit, Stainless Steel Overbraid

| Part No. | Nominal Conduit Size | NW Conduit Size | Conduit Pitch | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|-----------------|---------------|------------------|-----------------|------------------|-------------|
| PRFSSS16 | 16mm                 | 13              | Fine          | 17.2mm           | 11.7mm          | 35mm             | 50m         |
| PRFSSS21 | 21mm                 | 17              | Fine          | 23.6mm           | 16.6mm          | 60mm             | 50m         |
| PRCSSS28 | 28mm                 | 23              | Coarse        | 30.0mm           | 21.7mm          | 70mm             | 50m         |
| PRCSSS34 | 34mm                 | 29              | Coarse        | 36.0mm           | 27.7mm          | 75mm             | 50m         |
| PRCSSS42 | 42mm                 | 36              | Coarse        | 43.5mm           | 35.1mm          | 90mm             | 25m         |
| PRCSSS54 | 54mm                 | 48              | Coarse        | 56.5mm           | 46.6mm          | 95mm             | 25m         |

To order quote part number, colour & reel length, e.g. PRFSTC21/50M

#### Approvals



| IP Rating                               | Appropriate Fitting | Temperature Range   | UV Resistance  |
|---|---------------------|---|--|
| <b>For use with:</b> Hi-Spec Type A & B |                     | Static Applications: -40°C to +120°C<br>Moving Applications: -5°C to +120°C   | Very High  |
| IP40                                    | N/A                 | <b>Flexibility &amp; Fatigue Life</b><br>High Flexibility - Medium Fatigue Life   | <b>Fire Performance &amp; EMI Screen</b><br>Self Extinguishing |
| IP65                                    | N/A                 |   |  |
| IP66                                    | Hi-Spec A & B       |   |  |
| IP67                                    | Hi-Spec A & B       |   |  |
| IP68                                    | N/A                 |   |  |
| IP69                                    | N/A                 |   |  |

# Non-metallic conduit systems

## Type A & B - Hi-Spec



Type A  
Straight Fitting

### Type A - Hi-Spec

**Straight Fitting - Fixed External Male Thread** / For insertion into knockouts using a locknut

**Materials:** Nickel Plated Brass

| Part No.    | Nominal Conduit Size | Metric Thread |
|-------------|----------------------|---------------|
| PBF13/M16/A | 13mm                 | M16           |
| PBF16/M16/A | 16mm                 | M16           |
| PBF21/M20/A | 21mm                 | M20           |
| PBC28/M25/A | 28mm                 | M25           |
| PBC34/M32/A | 34mm                 | M32           |
| PBC42/M40/A | 42mm                 | M40           |

### Approvals



| IP Rating   | Appropriate Conduit | Temperature Range                    |
|---|---------------------|--------------------------------------|
| <b>For use with:</b> Hi-Spec Type PKTC / PKSS / PRTC / PRSS |                     | Static Applications: -60°C to +260°C |
| IP40  | N/A                 | Moving Applications: -45°C to +260°C |
| IP65  | N/A                 |                                      |
| IP66  | Yes                 |                                      |
| IP67  | Yes                 |                                      |
| IP68  | N/A                 |                                      |
| IP69  | N/A                 |                                      |

### Fire Performance & EMI Screen



Type B  
Straight Fitting

### Type B - Hi-Spec

**Straight Fitting - Swivel External Male Thread** / For insertion into threaded entries & knockouts

**Materials:** Nickel Plated Brass

| Part No.    | Nominal Conduit Size | Metric Thread |
|-------------|----------------------|---------------|
| PBF13/M16/B | 13mm                 | M16           |
| PBF16/M16/B | 16mm                 | M16           |
| PBF21/M20/B | 21mm                 | M20           |
| PBC28/M25/B | 28mm                 | M25           |
| PBC34/M32/B | 34mm                 | M32           |
| PBC42/M40/B | 42mm                 | M40           |
| PBC54/M50/B | 54mm                 | M50           |

### Approvals



| IP Rating   | Appropriate Conduit | Temperature Range                    |
|---|---------------------|--------------------------------------|
| <b>For use with:</b> Hi-Spec Type PKTC / PKSS / PRTC / PRSS |                     | Static Applications: -60°C to +260°C |
| IP40  | N/A                 | Moving Applications: -45°C to +260°C |
| IP65  | N/A                 |                                      |
| IP66  | Yes                 |                                      |
| IP67  | Yes                 |                                      |
| IP68  | N/A                 |                                      |
| IP69  | N/A                 |                                      |

### Fire Performance & EMI Screen







# Metallic conduit systems

## Conduit, fittings & accessories

### Metallic Conduit Systems

|                       |     |
|-----------------------|-----|
| Quick selection guide | 3/2 |
| Introduction          | 3/5 |

### Adaptasteel Steel Conduit & Fittings

|                                      |     |
|--------------------------------------|-----|
| Type S - Galvanised Steel Conduit    | 3/6 |
| Type SS - Stainless Steel Conduit    | 3/6 |
| Type A - Nickel Plated Brass Fitting | 3/7 |
| Type B - Nickel Plated Brass Fitting | 3/7 |
| Type F - Nickel Plated Brass Fitting | 3/8 |
| Type C - Nickel Plated Brass Fitting | 3/8 |

### Adaptasteel Liquid Resistant Conduit & Fittings

|  |      |
|--|------|
| Type SP - L/R General Purpose Conduit              | 3/9  |
| Type SN - L/R Abrasion & Solvent Resistant Conduit | 3/9  |
| Type LFH-SP - L/R Enhanced Low Fire Hazard Conduit | 3/10 |
| Type A - Nickel Plated Brass Fitting               | 3/10 |
| Type B - Nickel Plated Brass Fitting               | 3/11 |
| Type C90 - Nickel Plated Steel Fitting             | 3/11 |
| Type M - Nickel Plated Brass Fitting               | 3/12 |
| Type F - Nickel Plated Brass Fitting               | 3/12 |
| Type C - Nickel Plated Brass Fitting               | 3/13 |
| Type E - Nickel Plated Brass Fitting               | 3/13 |

### Adaptasteel Liquid Tight Conduit & Fittings

|  |      |
|--|------|
| Type SPL - L/T Oil Resistant                     | 3/14 |
| Type LFH-SPL - L/T Low Fire Hazard               | 3/14 |
| Type SPL-EF Enhanced Fire Performance <b>NEW</b> | 3/15 |
| Type SPLHC - L/T Extreme Temperature             | 3/16 |
| Type SPUL - L/T UL Listed & CSA Approved         | 3/16 |
| Type A - Nickel Plated Brass Fitting             | 3/17 |
| Type B - Nickel Plated Brass Fitting             | 3/17 |
| Type E - Nickel Plated Brass Fitting             | 3/18 |
| Type M - Coupler                                 | 3/18 |
| Type M - Nickel Plated Brass Fitting             | 3/19 |
| Type C90 - Nickel Plated Steel Fitting           | 3/20 |
| Type 45 - Nickel Plated Brass Fitting            | 3/20 |

### Adaptasteel Specialist EMI Screen Conduit & Fittings

|  |      |
|--|------|
| Type SB - Specialist EMI Screen Conduit    | 3/21 |
| Type STC - Specialist EMI Screen Conduit   | 3/21 |
| Type SSB - Specialist EMI Screen Conduit   | 3/22 |
| Type SSBGS - Specialist EMI Screen Conduit | 3/22 |
| Type A - Nickel Plated Brass Fitting       | 3/23 |
| Type B - Nickel Plated Brass Fitting       | 3/23 |

### Adaptasteel Specialist Liquid Resistant Conduit & Fittings

|   |      |
|---|------|
| Type SPB - Specialist Liquid Resistant Conduit      | 3/24 |
| Type SPTC - Specialist Liquid Resistant Conduit     | 3/24 |
| Type LFH-SPSS - Specialist Liquid Resistant Conduit | 3/25 |
| Type A - Nickel Plated Brass Fitting                | 3/25 |
| Type B - Nickel Plated Brass Fitting                | 3/26 |

### Adaptasteel Specialist Liquid Tight Conduit & Fittings

|   |      |
|---|------|
| Type SPLHCB - Specialist Liquid Tight Conduit | 3/26 |
| Type A - Nickel Plated Brass Fitting          | 3/27 |
| Type B - Nickel Plated Brass Fitting          | 3/27 |

### Metallic Accessories

|   |      |
|---|------|
| Type LNB/LNS - Metallic Locknut                   | 3/28 |
| Type P - P-Clip Conduit Support                   | 3/28 |
| Type PSA - Proximity Switch Connectors            | 3/28 |
| Type 90/45 - Brass Elbows                         | 3/29 |
| Type TC - UNEF Thread Converters                  | 3/29 |
| Female Coupler                                    | 3/29 |
| Type E, R & TC - Enlargers, Reducers & Converters | 3/30 |

# Metallic conduit systems

## Quick selection guide



| Conduit Type       | Type S           | Type SS         | Type SP          | Type SN          | Type LFH-SP      | Type SPL         | Type LFH-SPL           | Type SPL-EF <b>NEW</b> | Type SPLHC           | Type SPUL        |
|--------------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------------|------------------------|----------------------|------------------|
| Part number        | S                | SS              | SP               | SN               | LFH-SP           | SPL              | LFH-SPL                | SPL-EF <b>NEW</b>      | SPLHC                | SPUL             |
| Conduit material   | Galvanised steel | Stainless steel | Galvanised steel | Galvanised steel | Galvanised steel | Galvanised steel | Galvanised steel       | Galvanised steel       | Galvanised steel     | Galvanised steel |
| Covering/overbraid | –                | –               | PVC              | PA (Nylon)       | Polyolefin       | PVC              | Low fire hazard jacket | Thermoplastic jacket   | Thermoplastic rubber | PVC              |

### Conduit colour

|            |   |   |   |   |   |   |   |   |   |   |
|------------|---|---|---|---|---|---|---|---|---|---|
| Black (BL) | – | – | • | • | • | • | • | • | • | – |
| Grey (GR)  | – | – | • | – | – | • | – | – | – | • |

### IP Rating (with appropriate fitting)

|      |   |   |   |   |   |   |   |   |   |   |
|------|---|---|---|---|---|---|---|---|---|---|
| IP40 | • | • | – | – | – | – | – | – | – | – |
| IP54 | – | – | • | • | • | – | – | – | – | – |
| IP65 | – | – | • | • | • | – | – | – | – | – |
| IP66 | – | – | – | – | – | • | • | • | • | • |
| IP67 | – | – | – | – | – | • | • | • | • | • |
| IP68 | – | – | – | – | – | • | • | • | • | • |
| IP69 | – | – | – | – | – | • | • | • | • | • |

### Characteristics

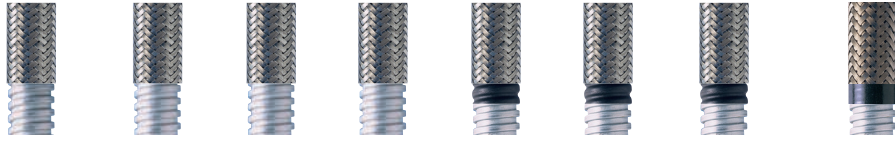
#### Temperature Range

|                          |             |             |            |            |            |             |            |             |             |            |
|--------------------------|-------------|-------------|------------|------------|------------|-------------|------------|-------------|-------------|------------|
| Static applications (°C) | -50 to +300 | -50 to +350 | -25 to +70 | -25 to +90 | -25 to +90 | -20 to +105 | -20 to +90 | -40 to +105 | -65 to +135 | -20 to +75 |
| Moving applications (°C) | -45 to +250 | -45 to +250 | -5 to +90  | -5 to +105 | -5 to +105 | -5 to +105  | -5 to +105 | -30 to +105 | -45 to +150 | -5 to +105 |
| UV resistance            | Very high   | Very high   | Very high  | High       | High       | Very high   | High       | Very high   | Very high   | High       |
| Flexibility              | High        | High        | High       | Medium     | High       | Medium      | Medium     | Very high   | Very high   | Medium     |
| Fatigue life             | High        | High        | Medium     | Medium     | Medium     | Medium      | Medium     | High        | High        | Medium     |
| Low fire hazard          | Inherent    | Inherent    | –          | –          | Enhanced   | –           | Enhanced   | Enhanced    | –           | –          |
| Halogen free             | •           | •           | –          | •          | •          | –           | •          | •           | •           | –          |
| Self extinguishing       | –           | –           | •          | •          | •          | •           | •          | •           | •           | •          |
| EMI screen               | –           | –           | –          | –          | –          | –           | –          | –           | –           | –          |
| High mechanical strength | •           | •           | •          | •          | •          | •           | •          | •           | •           | •          |
| High abrasion resistance | –           | •           | –          | –          | –          | –           | –          | –           | –           | –          |

### Approvals

|                  |   |   |   |   |   |   |   |   |   |   |
|------------------|---|---|---|---|---|---|---|---|---|---|
| BSI Kitemark     | • | • | • | • | • | • | • | • | • | • |
| CE               | • | • | • | • | • | • | • | • | • | • |
| UL / CSA         | – | – | – | – | – | – | – | – | – | • |
| UR               | – | – | – | – | – | • | – | – | – | – |
| DIN 5510-2       | – | – | – | – | – | – | – | – | – | – |
| NF F             | – | – | – | – | • | – | • | – | – | – |
| LUL 1-085        | – | – | – | – | • | – | • | – | – | – |
| UNI CEI 11170    | – | – | – | – | – | – | – | – | – | – |
| EN45545-2 to HL3 | – | – | – | – | – | – | • | • | – | – |

|                      |     |     |     |     |      |      |      |      |      |      |
|----------------------|-----|-----|-----|-----|------|------|------|------|------|------|
| Section 3 / Page No. | 3/6 | 3/6 | 3/9 | 3/9 | 3/10 | 3/14 | 3/14 | 3/15 | 3/16 | 3/17 |
|----------------------|-----|-----|-----|-----|------|------|------|------|------|------|



| Type SB          | Type STC         | Type SSB        | Type SSBGS       | Type SPB               | Type SPTC           | Type LFH-SPSS                          | Type SPLHCB                            |
|------------------|------------------|-----------------|------------------|------------------------|---------------------|--|--|
| Galvanised steel | Galvanised steel | Stainless steel | Galvanised steel | Galvanised steel       | Galvanised steel    | Galvanised steel                       | Galvanised steel                       |
| Galvanised steel | Tinned copper    | Stainless steel | Stainless steel  | PVC & Galvanised steel | PVC & tinned copper | Stainless steel low fire hazard jacket | Thermoplastic rubber & stainless steel |
| -                | -                | -               | -                | -                      | -                   | -                                      | -                                      |
| -                | -                | -               | -                | -                      | -                   | -                                      | -                                      |
| •                | •                | •               | •                | -                      | -                   | -                                      | -                                      |
| -                | -                | -               | -                | •                      | •                   | •                                      | -                                      |
| -                | -                | -               | -                | -                      | -                   | -                                      | -                                      |
| -                | -                | -               | -                | -                      | -                   | -                                      | •                                      |
| -                | -                | -               | -                | -                      | -                   | -                                      | •                                      |
| -                | -                | -               | -                | -                      | -                   | -                                      | •                                      |
| -                | -                | -               | -                | -                      | -                   | -                                      | -                                      |
| -50 to +300      | -50 to +300      | -50 to +300     | -50 to +300      | -15 to +70             | -15 to +70          | -20 to +90                             | -65 to +135                            |
| -45 to +250      | -45 to +250      | -45 to +250     | -45 to +250      | -5 to +90              | -5 to +90           | -5 to +105                             | -45 to +150                            |
| Very high        | Very high        | Very high       | Very high        | Very high              | Very high           | Very high                              | Very high                              |
| High             | High             | High            | High             | High                   | High                | Medium                                 | High                                   |
| High             | High             | High            | High             | Medium                 | Medium              | Medium                                 | Medium                                 |
| Inherent         | Inherent         | Inherent        | Inherent         | -                      | -                   | Enhanced                               | -                                      |
| •                | •                | •               | •                | -                      | -                   | -                                      | •                                      |
| -                | -                | -               | -                | •                      | •                   | •                                      | •                                      |
| Enhanced         | High             | Standard        | Standard         | Enhanced               | High                | Standard                               | Standard                               |
| •                | •                | •               | •                | •                      | •                   | •                                      | •                                      |
| •                | •                | •               | •                | •                      | •                   | •                                      | •                                      |
| •                | •                | •               | •                | •                      | •                   | •                                      | -                                      |
| •                | •                | •               | •                | •                      | •                   | •                                      | •                                      |
| -                | -                | -               | -                | -                      | -                   | -                                      | -                                      |
| -                | -                | -               | -                | -                      | -                   | -                                      | -                                      |
| -                | -                | -               | -                | -                      | -                   | -                                      | -                                      |
| -                | -                | -               | -                | -                      | -                   | -                                      | -                                      |
| -                | -                | -               | -                | -                      | -                   | •                                      | -                                      |
| -                | -                | -               | -                | -                      | -                   | •                                      | -                                      |
| -                | -                | -               | -                | -                      | -                   | -                                      | -                                      |
| -                | -                | -               | -                | -                      | -                   | -                                      | -                                      |
| 3/21             | 3/21             | 3/22            | 3/22             | 3/24                   | 3/24                | 3/25                                   | 3/26                                   |



# Metallic conduit systems

## Introduction

### Range overview

Adaptaflex have a wide selection of metallic conduits and metallic conduit systems manufactured either in galvanized steel or stainless steel.

A wide range of different conduit types provide a solution for liquid resistant specifications, with further conduit options in liquid tight covered steel conduit for especially demanding environments. Conduit ranges are offered in nominal conduit size from 3mm for CCTV/roller shutter doors and for protecting fibre optics cables right up to 75mm for larger cable carrying capacity.

Overbraided conduits are particularly suitable for installation in abrasive environments. Where applications call for enhanced low fire hazard properties or EMI screening then there is the option of high specification tinned copper overbraided for greater EMI protection levels.

In addition a range of fittings are specifically designed to maintain system integrity including fixed and swivel fittings, straights, 90°, 45°, and a host of accessories including locknuts, enlargers, reducers and converters.



Many of our conduit systems have industry recognised approvals including British Kitemark, CE Approval, UL 1696, NF, LUL and DIN amongst others.

Advantages:

- High compression/crush strength
- Tensile strength - pull off load under tension
- Impact resistance
- Inherent fire protection on uncoated versions
- Corrosion resistant - stainless steel options
- Braided - High level EMI screening with tinned copper overbraided



# Metallic conduit systems

## Type S & SS - Adaptasteel



Type S  
Inherent Low Fire Hazard  
Steel Conduit

3

### Type S - Adaptasteel

Inherent Low Fire Hazard Steel Conduit / **Materials:** Galvanised Steel - General Purpose

| Part No. | Nominal Conduit Size | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|------------------|-----------------|------------------|-------------|
| S10      | 10mm                 | 9.1mm            | 7.0mm           | 25mm             | 25, 50m     |
| S12      | 12mm                 | 13.0mm           | 10.3mm          | 30mm             | 10, 25, 50m |
| S16      | 16mm                 | 16.0mm           | 13.0mm          | 35mm             | 10, 25, 50m |
| S20      | 20mm                 | 20.5mm           | 16.9mm          | 45mm             | 10, 25, 50m |
| S25      | 25mm                 | 25.0mm           | 21.4mm          | 55mm             | 10, 25, 50m |
| S32      | 32mm                 | 32.0mm           | 28.1mm          | 60mm             | 10, 25m     |
| S40      | 40mm                 | 42.5mm           | 37.7mm          | 80mm             | 10, 25m     |
| S50      | 50mm                 | 53.0mm           | 48.4mm          | 90mm             | 10, 25m     |
| S63      | 63mm                 | 62.5mm           | 57.5mm          | 115mm            | 10m         |
| S75      | 75mm                 | 77.0mm           | 70.0mm          | 150mm            | 10m         |

To order quote part no, & reel length, e.g. S12/25M

#### Approvals



| IP Rating                   | Appropriate Fitting       | Temperature Range                        | UV Resistance |
|-----------------------------|---------------------------|--|---------------|
| <b>For use with:</b> Type S |                           | Static Applications: -50°C to +300°C     | Very High     |
| IP40                        | Type S - Type A, B, F & C | Moving Applications: -45°C to +250°C     |               |
| IP65                        | N/A                       | <b>Flexibility &amp; Fatigue Life</b>    |               |
| IP66                        | N/A                       | High Flexibility - High Fatigue Life     |               |
| IP67                        | N/A                       | <b>Fire Performance &amp; EMI Screen</b> |               |
| IP68                        | N/A                       |  |               |
| IP69                        | N/A                       |  |               |



Type SS  
Inherent Low Fire Hazard  
Stainless Steel Conduit

### Type SS - Adaptasteel

Inherent Low Fire Hazard Steel Conduit / **Materials:** Stainless Steel 316 - Corrosion Resistant

| Part No. | Nominal Conduit Size | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|------------------|-----------------|------------------|-------------|
| SS10     | 10mm                 | 9.0mm            | 6.8mm           | 25mm             | 25, 50m     |
| SS12     | 12mm                 | 13.0mm           | 10.3mm          | 30mm             | 25, 50m     |
| SS16     | 16mm                 | 16.0mm           | 13mm            | 35mm             | 10, 25, 50m |
| SS20     | 20mm                 | 20.5mm           | 16.9mm          | 45mm             | 10, 25, 50m |
| SS25     | 25mm                 | 25.0mm           | 21.4mm          | 55mm             | 10, 25, 50m |
| SS32     | 32mm                 | 32.0mm           | 28.1mm          | 60mm             | 10, 25m     |

To order quote part no, & reel length, e.g. SS12/25M

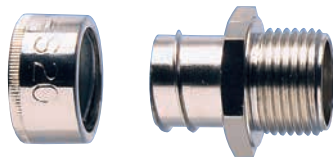
#### Approvals



| IP Rating                   | Appropriate Fitting       | Temperature Range                        | UV Resistance |
|-----------------------------|---------------------------|--|---------------|
| <b>For use with:</b> Type S |                           | Static Applications: -50°C to +350°C     | Very High     |
| IP40                        | Type S - Type A, B, F & C | Moving Applications: -45°C to +250°C     |               |
| IP65                        | N/A                       | <b>Flexibility &amp; Fatigue Life</b>    |               |
| IP66                        | N/A                       | High Flexibility - High Fatigue Life     |               |
| IP67                        | N/A                       | <b>Fire Performance &amp; EMI Screen</b> |               |
| IP68                        | N/A                       |  |               |
| IP69                        | N/A                       |  |               |

# Metallic conduit systems

## Type A & B - Adaptasteel



Type A  
Straight Fitting

### Type A - Adaptasteel

**Straight Fitting - Fixed External Male Thread** / For insertion into knockouts using a locknut (order locknut separately)

**Materials:** Nickel Plated Brass

| Part No.  | Nominal Conduit Size | Metric Thread | Part No.   | Nominal Conduit Size | PG Thread |
|-----------|----------------------|---------------|------------|----------------------|-----------|
| S10/M12/A | 10mm                 | M12           | S10/PG7/A  | 10mm                 | PG7       |
| S12/M16/A | 12mm                 | M16           | S12/PG9/A  | 12mm                 | PG9       |
| S16/M16/A | 16mm                 | M16           | S16/PG11/A | 16mm                 | PG11      |
| S16/M20/A | 16mm                 | M20           |            |                      |           |
| S20/M20/A | 20mm                 | M20           | S20/PG16/A | 20mm                 | PG16      |
| S25/M25/A | 25mm                 | M25           | S25/PG21/A | 25mm                 | PG21      |
| S32/M32/A | 32mm                 | M32           | S32/PG29/A | 32mm                 | PG29      |
| S40/M40/A | 40mm                 | M40           | S40/PG36/A | 40mm                 | PG36      |
| S50/M50/A | 50mm                 | M50           | S50/PG42/A | 50mm                 | PG42      |
| S63/M63/A | 63mm                 | M63           | S63/PG48/A | 63mm                 | PG48      |
| S75/M75/A | 75mm                 | M75           |            |                      |           |

#### Approvals



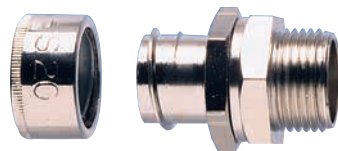
#### IP Rating

**For use with:** Type S / SS

| IP Rating | Appropriate Conduit |
|-----------|---------------------|
| IP40      | Yes                 |
| IP65      | N/A                 |
| IP66      | N/A                 |
| IP67      | N/A                 |
| IP68      | N/A                 |
| IP69      | N/A                 |

#### Temperature Range

Static Applications: -50°C to +300°C  
Moving Applications: -45°C to +250°C



Type B  
Straight Fitting

### Type B - Adaptasteel

**Straight Fitting - Swivel External Male Thread** / For insertion into threaded entries & knockouts using a locknut (order locknut separately)

**Materials:** Nickel Plated Brass

| Part No.  | Nominal Conduit Size | Metric Thread | Part No.   | Nominal Conduit Size | PG Thread |
|-----------|----------------------|---------------|------------|----------------------|-----------|
| S10/M12/B | 10mm                 | M12           | S10/PG7/B  | 10mm                 | PG7       |
| S12/M16/B | 12mm                 | M16           | S12/PG9/B  | 12mm                 | PG9       |
| S16/M16/B | 16mm                 | M16           | S16/PG11/B | 16mm                 | PG11      |
| S16/M20/B | 16mm                 | M20           |            |                      |           |
| S20/M20/B | 20mm                 | M20           | S20/PG16/B | 20mm                 | PG16      |
| S25/M25/B | 25mm                 | M25           | S25/PG21/B | 25mm                 | PG21      |
| S32/M32/B | 32mm                 | M32           | S32/PG29/B | 32mm                 | PG29      |
| S40/M40/B | 40mm                 | M40           | S40/PG36/B | 40mm                 | PG36      |
| S50/M50/B | 50mm                 | M50           | S50/PG42/B | 50mm                 | PG42      |

#### Approvals



#### IP Rating

**For use with:** Type S / SS

| IP Rating | Appropriate Conduit |
|-----------|---------------------|
| IP40      | Yes                 |
| IP65      | N/A                 |
| IP66      | N/A                 |
| IP67      | N/A                 |
| IP68      | N/A                 |
| IP69      | N/A                 |

#### Temperature Range

Static Applications: -50°C to +300°C  
Moving Applications: -45°C to +250°C

#### Fitting Characteristics



# Metallic conduit systems

## Type F & C - Adaptasteel



Type F  
Straight Fitting

### Type F - Adaptasteel

**Straight Fitting - Fixed Internal Female Thread** / For attaching to external threads & other fittings

**Materials:** Nickel Plated Brass

| Part No.  | Nominal Conduit Size | Metric Thread |
|-----------|----------------------|---------------|
| S20/M20/F | 20mm                 | M20           |
| S25/M25/F | 25mm                 | M25           |
| S32/M32/F | 32mm                 | M32           |

#### Approvals



| IP Rating                        | Appropriate Conduit | Temperature Range                    |
|----------------------------------|---------------------|--------------------------------------|
| <b>For use with:</b> Type S / SS |                     | Static Applications: -50°C to +300°C |
| IP40                             | Yes                 | Moving Applications: -45°C to +250°C |
| IP65                             | N/A                 |                                      |
| IP66                             | N/A                 |                                      |
| IP67                             | N/A                 |                                      |
| IP68                             | N/A                 |                                      |
| IP69                             | N/A                 |                                      |



Type C  
Smooth Entry Bush

### Type C - Adaptasteel

**Smooth Entry Bush** / For locking conduit into plain holes in enclosures

**Materials:** Nickel Plated Brass

| Part No. | Nominal Conduit Size | Hole Size |
|----------|----------------------|-----------|
| S10/9/C  | 10mm                 | 9mm       |
| S12/12/C | 12mm                 | 12mm      |
| S16/16/C | 16mm                 | 16mm      |
| S20/20/C | 20mm                 | 20mm      |
| S25/25/C | 25mm                 | 25mm      |
| S32/32/C | 32mm                 | 32mm      |
| S40/40/C | 40mm                 | 40mm      |
| S50/51/C | 50mm                 | 51mm      |
| S63/61/C | 63mm                 | 61mm      |
| S75/75/C | 75mm                 | 75mm      |

#### Approvals



| IP Rating                        | Appropriate Conduit | Temperature Range                    |
|----------------------------------|---------------------|--------------------------------------|
| <b>For use with:</b> Type S / SS |                     | Static Applications: -50°C to +300°C |
| IP40                             | Yes                 | Moving Applications: -45°C to +250°C |
| IP65                             | N/A                 |                                      |
| IP66                             | N/A                 |                                      |
| IP67                             | N/A                 |                                      |
| IP68                             | N/A                 |                                      |
| IP69                             | N/A                 |                                      |



# Metallic conduit systems

## Type SP & SN - Adaptasteel



Type SP  
Liquid Resistant General Purpose  
Covered Steel Flexible Conduit

### Type SP - Adaptasteel

#### Liquid Resistant General Purpose Covered Steel Flexible Conduit

**Materials:** PVC Covered Galvanised Steel / **Colour:** Black (BL), Grey (GR), Orange (OR)

| Part No. | Nominal Conduit Size | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|------------------|-----------------|------------------|-------------|
| SP10     | 10mm                 | 10.0mm           | 6.8mm           | 25mm             | 25, 50m     |
| SP12     | 12mm                 | 14.0mm           | 10.3mm          | 30mm             | 25, 50m     |
| SP16     | 16mm                 | 17.0mm           | 13.0mm          | 35mm             | 10, 25, 50m |
| SP20     | 20mm                 | 21.5mm           | 16.9mm          | 45mm             | 10, 25, 50m |
| SP25     | 25mm                 | 26.0mm           | 21.4mm          | 55mm             | 10, 25, 50m |
| SP32     | 32mm                 | 34.0mm           | 28.1mm          | 60mm             | 10, 25m     |
| SP40     | 40mm                 | 44.5mm           | 37.7mm          | 80mm             | 10, 25m     |
| SP50     | 50mm                 | 55.0mm           | 48.4mm          | 90mm             | 10, 25m     |
| SP63     | 63mm                 | 64.5mm           | 57.5mm          | 115mm            | 10m         |
| SP75     | 75mm                 | 79.0mm           | 70.0mm          | 150mm            | 10m         |

To order quote part no, colour & reel length, e.g. SP12/BL/25M

#### Approvals



| IP Rating                    | Appropriate Fitting           | Temperature Range                        | UV Resistance |
|------------------------------|-------------------------------|--|---------------|
| <b>For use with:</b> Type SP |                               | Static Applications: -25°C to +70°C      | Very High     |
| IP54                         | Type SP - Type A, B, C, E & F | Moving Applications: -5°C to +90°C       |               |
| IP65                         | Type SP - Type M & C90        | <b>Flexibility &amp; Fatigue Life</b>    |               |
| IP66                         | N/A                           | High Flexibility - Medium Fatigue Life   |               |
| IP67                         | N/A                           | <b>Fire Performance &amp; EMI Screen</b> |               |
| IP68                         | N/A                           | Self Extinguishing                       |               |
| IP69                         | N/A                           |  |               |



Type SN  
Liquid Resistant Abrasion  
& Solvent Resistant Covered  
Steel Flexible Conduit

### Type SN - Adaptasteel

#### Liquid Resistant Abrasion & Solvent Resistant Covered Steel Flexible Conduit

**Materials:** PA (Nylon) Covered Galvanised Steel / **Colour:** Black (BL) Only

| Part No. | Nominal Conduit Size | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|------------------|-----------------|------------------|-------------|
| SN12     | 12mm                 | 14.0mm           | 10.3mm          | 30mm             | 25, 50m     |
| SN16     | 16mm                 | 17.0mm           | 13.0mm          | 35mm             | 25, 50m     |
| SN20     | 20mm                 | 21.5mm           | 16.9mm          | 45mm             | 25, 50m     |
| SN25     | 25mm                 | 26.0mm           | 21.4mm          | 55mm             | 25, 50m     |
| SN32     | 32mm                 | 34.0mm           | 28.1mm          | 60mm             | 25m         |

To order quote part no, colour & reel length, e.g. SN12/BL/25M

#### Approvals



| IP Rating                    | Appropriate Fitting           | Temperature Range                        | UV Resistance |
|------------------------------|-------------------------------|--|---------------|
| <b>For use with:</b> Type SP |                               | Static Applications: -40°C to +120°C     | High          |
| IP54                         | Type SP - Type A, B, C, E & F | Moving Applications: -25°C to +150°C     |               |
| IP65                         | Type SP - Type M & C90        | <b>Flexibility &amp; Fatigue Life</b>    |               |
| IP66                         | N/A                           | Medium Flexibility - Medium Fatigue Life |               |
| IP67                         | N/A                           | <b>Fire Performance &amp; EMI Screen</b> |               |
| IP68                         | N/A                           | Self Extinguishing                       |               |
| IP69                         | N/A                           | Halogen Free                             |               |

# Metallic conduit systems

## Type LFH-SP & A - Adaptasteel



Type LFH-SP  
Liquid Resistant Enhanced  
Low Fire Hazard Covered  
Steel Flexible Conduit

3

### Type LFH-SP - Adaptasteel

#### Liquid Resistant Enhanced Low Fire Hazard Covered Steel Flexible Conduit

**Materials:** Polyolefin Covered Galvanised Steel / **Colour:** Black (BL) Only

| Part No. | Nominal Conduit Size | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|------------------|-----------------|------------------|-------------|
| LFH-SP12 | 12mm                 | 14.0mm           | 10.3mm          | 30mm             | 25, 50m     |
| LFH-SP16 | 16mm                 | 17.0mm           | 13.0mm          | 35mm             | 10, 25, 50m |
| LFH-SP20 | 20mm                 | 21.5mm           | 16.9mm          | 45mm             | 10, 25, 50m |
| LFH-SP25 | 25mm                 | 26.0mm           | 21.4mm          | 55mm             | 10, 25, 50m |
| LFH-SP32 | 32mm                 | 34.0mm           | 28.1mm          | 60mm             | 10, 25m     |
| LFH-SP40 | 40mm                 | 44.5mm           | 37.7mm          | 80mm             | 10, 25m     |
| LFH-SP50 | 50mm                 | 55.0mm           | 48.4mm          | 90mm             | 10, 25m     |
| LFH-SP63 | 63mm                 | 64.5mm           | 57.5mm          | 115mm            | 10m         |
| LFH-SP75 | 75mm                 | 79.0mm           | 70.0mm          | 150mm            | 10m         |

To order quote part number, colour & reel length, e.g. LFH-SP16/BL/50M

#### Approvals



EN45545-2 HL3 - R22 & R23

| IP Rating                    | Appropriate Fitting           | Temperature Range                   | UV Resistance   |
|------------------------------|-------------------------------|-------------------------------------|---|
| <b>For use with:</b> Type SP |                               | Static Applications: -25°C to +90°C | High  |
| IP54                         | Type SP - Type A, B, C, E & F | Moving Applications: -5°C to +105°C | <b>Flexibility &amp; Fatigue Life</b><br>Medium Flexibility - Medium Fatigue Life<br><br><b>Fire Performance &amp; EMI Screen</b><br>Self Extinguishing<br>Halogen Free |
| IP65                         | Type SP - Type M & C90        |                                     |   |
| IP66                         | N/A                           |                                     |   |
| IP67                         | N/A                           |                                     |   |
| IP68                         | N/A                           |                                     |   |
| IP69                         | N/A                           |                                     |   |



Type A  
Straight Fitting

### Type A - Adaptasteel

**Straight Fitting - Fixed External Male Thread** / For insertion into knockouts using a locknut (order locknut separately)

**Materials:** Nickel Plated Brass

| Part No.   | Nominal Conduit Size | Metric Thread | Part No.    | Nominal Conduit Size | PG Thread |
|------------|----------------------|---------------|-------------|----------------------|-----------|
| SP10/M12/A | 10mm                 | M12           | SP10/PG7/A  | 10mm                 | PG7       |
| SP12/M16/A | 12mm                 | M16           | SP12/PG9/A  | 12mm                 | PG9       |
| SP16/M16/A | 16mm                 | M16           |             |                      |           |
| SP16/M20/A | 16mm                 | M20           | SP16/PG11/A | 16mm                 | PG11      |
| SP20/M20/A | 20mm                 | M20           | SP20/PG16/A | 20mm                 | PG16      |
| SP25/M25/A | 25mm                 | M25           | SP25/PG21/A | 25mm                 | PG21      |
| SP32/M32/A | 32mm                 | M32           | SP32/PG29/A | 32mm                 | PG29      |
| SP40/M40/A | 40mm                 | M40           | SP40/PG36/A | 40mm                 | PG36      |
| SP50/M50/A | 50mm                 | M50           | SP50/PG42/A | 50mm                 | PG42      |
| SP63/M63/A | 63mm                 | M63           | SP63/PG48/A | 63mm                 | PG48      |
| SP75/M75/A | 75mm                 | M75           |             |                      |           |

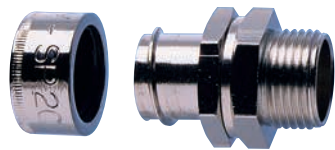
#### Approvals



| IP Rating                                  | Appropriate Conduit | Temperature Range                    |
|--|---------------------|--------------------------------------|
| <b>For use with:</b> Type SP / SN / LFH-SP |                     | Static Applications: -50°C to +300°C |
| IP54                                       | Yes                 | Moving Applications: -45°C to +250°C |
| IP65                                       | N/A                 |                                      |
| IP66                                       | N/A                 |                                      |
| IP67                                       | N/A                 |                                      |
| IP68                                       | N/A                 |                                      |
| IP69                                       | N/A                 |                                      |

# Metallic conduit systems

## Type B & C90 - Adaptasteel



Type B  
Straight Fitting

### Type B - Adaptasteel

**Straight Fitting - Swivel External Thread** / For insertion into threaded entries & knockouts using a locknut (order locknut separately)

**Materials:** Nickel Plated Brass

| Part No.   | Nominal Conduit Size | Metric Thread | Part No.    | Nominal Conduit Size | PG Thread |
|------------|----------------------|---------------|-------------|----------------------|-----------|
| SP10/M12/B | 10mm                 | M12           | SP10/PG7/B  | 10mm                 | PG7       |
| SP12/M16/B | 12mm                 | M16           | SP12/PG9/B  | 12mm                 | PG9       |
| SP16/M16/B | 16mm                 | M16           | SP16/PG11/B | 16mm                 | PG11      |
| SP16/M20/B | 16mm                 | M20           |             |                      |           |
| SP20/M20/B | 20mm                 | M20           | SP20/PG16/B | 20mm                 | PG16      |
| SP25/M25/B | 25mm                 | M25           | SP25/PG21/B | 25mm                 | PG21      |
| SP32/M32/B | 32mm                 | M32           | SP32/PG29/B | 32mm                 | PG29      |
| SP40/M40/B | 40mm                 | M40           | SP40/PG36/B | 40mm                 | PG36      |
| SP50/M50/B | 50mm                 | M50           | SP50/PG42/B | 50mm                 | PG42      |

#### Approvals



#### IP Rating

#### Appropriate Conduit

**For use with:** Type SP / SN / LFH-SP

|      |     |
|------|-----|
| IP54 | Yes |
| IP65 | N/A |
| IP66 | N/A |
| IP67 | N/A |
| IP68 | N/A |
| IP69 | N/A |

#### Temperature Range

Static Applications: -50°C to +300°C  
Moving Applications: -45°C to +250°C

#### Fitting Characteristics



Type C90  
90° Combined Fitting & Elbow

### Type C90 - Adaptasteel

**90° Combined Fitting & Elbow** / For insertion into threaded entries & knockouts using a locknut (order locknut separately)

**Materials:** Nickel Plated Brass

| Part No.     | Nominal Conduit Size | Metric Thread |
|--------------|----------------------|---------------|
| SP16/M16/C90 | 16mm                 | M16           |
| SP16/M20/C90 | 16mm                 | M20           |
| SP20/M20/C90 | 20mm                 | M20           |
| SP25/M25/C90 | 25mm                 | M25           |
| SP32/M32/C90 | 32mm                 | M32           |

#### IP Rating

#### Appropriate Conduit

**For use with:** Type SP / SN / LFH-SP

|      |     |
|------|-----|
| IP54 | N/A |
| IP65 | Yes |
| IP66 | N/A |
| IP67 | N/A |
| IP68 | N/A |
| IP69 | N/A |

#### Temperature Range

Static Applications: -50°C to +300°C  
Moving Applications: -45°C to +250°C

#### Fitting Characteristics

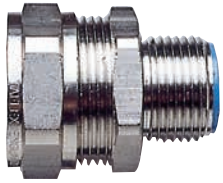


#### Approvals



# Metallic conduit systems

## Type M & F - Adaptasteel



3

Type M  
Straight Swivel Fitting

### Type M - Adaptasteel

**Straight Swivel Fitting - External Male Thread** / For insertion into threaded entries & knockouts using a locknut (order locknut separately)

**Materials:** Nickel Plated Brass

| Part No.   | Nominal Conduit Size | Metric Thread | Part No.    | Nominal Conduit Size | PG Thread |
|------------|----------------------|---------------|-------------|----------------------|-----------|
| SP12/M16/M | 12mm                 | M16           | SP12/PG9/M  | 12mm                 | PG9       |
| SP16/M16/M | 16mm                 | M16           | SP16/PG11/M | 16mm                 | PG11      |
| SP16/M20/M | 16mm                 | M20           | SP16/PG13/M | 16mm                 | PG13,5    |
| SP20/M20/M | 20mm                 | M20           | SP20/PG16/M | 20mm                 | PG16      |
| SP25/M25/M | 25mm                 | M25           | SP25/PG21/M | 25mm                 | PG21      |
| SP32/M32/M | 32mm                 | M32           | SP32/PG29/M | 32mm                 | PG29      |
| SP40/M40/M | 40mm                 | M40           |             |                      |           |
| SP50/M50/M | 50mm                 | M50           |             |                      |           |

| Part No.   | Nominal Conduit Size | NPT Thread |
|------------|----------------------|------------|
| SP16/038/M | 16mm                 | 3/8"       |
| SP20/050/M | 20mm                 | 1/2"       |
| SP25/075/M | 25mm                 | 3/4"       |
| SP32/100/M | 32mm                 | 1"         |

#### Approvals



#### IP Rating

**For use with:** Type SP / SN / LFH-SP

| IP Rating | Appropriate Conduit |
|-----------|---------------------|
| IP54      | N/A                 |
| IP65      | Yes                 |
| IP66      | N/A                 |
| IP67      | N/A                 |
| IP68      | N/A                 |
| IP69      | N/A                 |

#### Temperature Range

Static Applications: -50°C to +150°C

Moving Applications: -45°C to +150°C

#### Fitting Characteristics



Type F  
Straight Fitting

### Type F - Adaptasteel

**Straight Fitting - Fixed Internal Female Thread** / For external threads and other fittings

**Materials:** Nickel Plated Brass

| Part No.   | Nominal Conduit Size | Metric Thread |
|------------|----------------------|---------------|
| SP20/M20/F | 20mm                 | M20           |
| SP25/M25/F | 25mm                 | M25           |
| SP32/M32/F | 32mm                 | M32           |

#### Approvals



#### IP Rating

**For use with:** Type SP / SN / LFH-SP

| IP Rating | Appropriate Conduit |
|-----------|---------------------|
| IP54      | Yes                 |
| IP65      | N/A                 |
| IP66      | N/A                 |
| IP67      | N/A                 |
| IP68      | N/A                 |
| IP69      | N/A                 |

#### Temperature Range

Static Applications: -50°C to +300°C

Moving Applications: -45°C to +250°C

# Metallic conduit systems

## Type C & E - Adaptasteel



Type C  
Smooth Entry Bush

### Type C - Adaptasteel

**Smooth Entry Bush** / For locking conduit into plain holes in enclosures

**Materials:** Nickel Plated Brass

| Part No.  | Nominal Conduit Size | Hole Size |
|-----------|----------------------|-----------|
| SP10/9/C  | 10mm                 | 9mm       |
| SP12/12/C | 12mm                 | 12mm      |
| SP16/16/C | 16mm                 | 16mm      |
| SP20/20/C | 20mm                 | 20mm      |
| SP25/25/C | 25mm                 | 25mm      |
| SP32/32/C | 32mm                 | 32mm      |
| SP40/40/C | 40mm                 | 40mm      |
| SP50/51/C | 50mm                 | 51mm      |
| SP63/61/C | 63mm                 | 61mm      |
| SP75/75/C | 75mm                 | 75mm      |

#### Approvals



| IP Rating                                  | Appropriate Conduit | Temperature Range  |
|--|---------------------|--|
| <b>For use with:</b> Type SP / SN / LFH-SP |                     |  |
| IP54                                       | Yes                 | Static Applications: -50°C to +300°C<br>Moving Applications: -45°C to +250°C |
| IP65                                       | N/A                 |  |
| IP66                                       | N/A                 |  |
| IP67                                       | N/A                 |  |
| IP68                                       | N/A                 |  |
| IP69                                       | N/A                 |  |



Type E  
Conduit Terminator

### Type E - Adaptasteel

**Conduit Terminator** / Cable Protection at exit point

**Materials:** Nickel Plated Brass

| Part No. | Nominal Conduit Size |
|----------|----------------------|
| SP12/E   | 12mm                 |
| SP16/E   | 16mm                 |
| SP20/E   | 20mm                 |
| SP25/E   | 25mm                 |
| SP32/E   | 32mm                 |
| SP40/E   | 40mm                 |
| SP50/E   | 50mm                 |

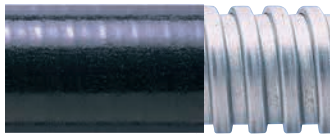
#### Approvals



| IP Rating                                  | Appropriate Conduit | Temperature Range  |
|--|---------------------|--|
| <b>For use with:</b> Type SP / SN / LFH-SP |                     |  |
| IP54                                       | Yes                 | Static Applications: -50°C to +300°C<br>Moving Applications: -45°C to +250°C |
| IP65                                       | N/A                 |  |
| IP66                                       | N/A                 |  |
| IP67                                       | N/A                 |  |
| IP68                                       | N/A                 |  |
| IP69                                       | N/A                 |  |

# Metallic conduit systems

## Type SPL & LFH-SPL - Adaptasteel



Type SPL  
Liquid Tight Oil Resistant  
Covered Steel Flexible Conduit

3

### Type SPL - Adaptasteel

#### Liquid Tight Oil Resistant Covered Steel Flexible Conduit

**Materials:** PVC Covered Galvanised Steel / **Colour:** Black (BL), Grey (GR), Orange (OR)

| Part No. | Nominal Conduit Size | Outside Diameter | US Conduit Size | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|------------------|-----------------|-----------------|------------------|-------------|
| SPL10    | 10mm                 | 11.8mm           | 1/4"            | 7.0mm           | 40mm             | 10, 25, 50m |
| SPL12    | 12mm                 | 14.2mm           | 5/16"           | 10.0mm          | 45mm             | 10, 25, 50m |
| SPL16    | 16mm                 | 17.8mm           | 3/8"            | 12.5mm          | 50mm             | 10, 25, 50m |
| SPL20    | 20mm                 | 21.1mm           | 1/2"            | 15.9mm          | 80mm             | 10, 25, 50m |
| SPL25    | 25mm                 | 26.4mm           | 3/4"            | 21.0mm          | 110mm            | 10, 25, 50m |
| SPL32    | 32mm                 | 33.1mm           | 1"              | 26.7mm          | 145mm            | 10, 25m     |
| SPL40    | 40mm                 | 41.8mm           | 1 1/4"          | 35.4mm          | 180mm            | 10, 25m     |
| SPL50    | 50mm                 | 47.9mm           | 1 1/2"          | 40.4mm          | 240mm            | 10, 25m     |
| SPL63    | 63mm                 | 59.7mm           | 2"              | 51.6mm          | 345mm            | 10, 25m     |

To order quote part number, colour & reel length, e.g. SPL12/BL/50M

#### Approvals



| IP Rating                     | Appropriate Fitting                           | Temperature Range                        | UV Resistance |
|-------------------------------|---|--|---------------|
| <b>For use with:</b> Type SPL |   | Static Applications: -20°C to +105°C     | Very High     |
| IP40                          | N/A   | Moving Applications: -5°C to +105°C      |               |
| IP65                          | N/A   | <b>Flexibility &amp; Fatigue Life</b>    |               |
| IP66                          | Type SPL - Type M, C45 & C90                  | Medium Flexibility - Medium Fatigue Life |               |
| IP67                          | Type SPL - Type A, B, M, C45 & C90            | <b>Fire Performance &amp; EMI Screen</b> |               |
| IP68                          | Type SPL - Type M, C45 & C90 (10 bar 30 mins) | Self Extinguishing                       |               |
| IP69                          | Type SPL - Type M, C45 & C90                  |  |               |



Type LFH-SPL  
Low Fire Hazard Performance  
Covered Steel Flexible Conduit

### Type LFH-SPL - Adaptasteel

#### Low Fire Hazard Performance Covered Steel Flexible Conduit

**Materials:** Low Fire Hazard Jacket Covered Galvanised Steel / **Colour:** Black (BL) Only

| Part No.  | Nominal Conduit Size | Outside Diameter | US Conduit Size | Inside Diameter | Min. Bend Radius | Reel Length |
|-----------|----------------------|------------------|-----------------|-----------------|------------------|-------------|
| LFH-SPL16 | 16mm                 | 17.0mm           | 3/8"            | 13.0mm          | 50mm             | 10, 25m     |
| LFH-SPL20 | 20mm                 | 21.5mm           | 1/2"            | 16.9mm          | 80mm             | 10, 25m     |
| LFH-SPL25 | 25mm                 | 26.0mm           | 3/4"            | 21.4mm          | 110mm            | 10, 25m     |
| LFH-SPL32 | 32mm                 | 34.0mm           | 1"              | 28.1mm          | 145mm            | 10, 25m     |
| LFH-SPL40 | 40mm                 | 44.5mm           | 1 1/4"          | 37.7mm          | 180mm            | 10m         |
| LFH-SPL50 | 50mm                 | 55.0mm           | 1 1/2"          | 48.4mm          | 240mm            | 10m         |
| LFH-SPL63 | 63mm                 | 64.5mm           | 2"              | 57.5mm          | 345mm            | 10m         |

To order quote part number, colour & reel length, e.g. LFH-SPL16/BL/25M

#### Approvals



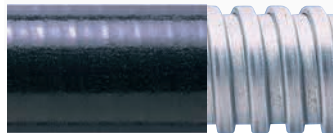
EN45545-2 HL3 - R22 & R23

| IP Rating                     | Appropriate Fitting                           | Temperature Range                        | UV Resistance |
|-------------------------------|---|--|---------------|
| <b>For use with:</b> Type SPL |   | Static Applications: -20°C to +90°C      | High          |
| IP40                          | N/A   | Moving Applications: -5°C to +105°C      |               |
| IP65                          | N/A   | <b>Flexibility &amp; Fatigue Life</b>    |               |
| IP66                          | Type SPL - Type M, C45 & C90                  | Medium Flexibility - Medium Fatigue Life |               |
| IP67                          | Type SPL - Type A, B, M, C45 & C90            | <b>Fire Performance &amp; EMI Screen</b> |               |
| IP68                          | Type SPL - Type M, C45 & C90 (10 bar 30 mins) | Self Extinguishing                       |               |
| IP69                          | Type SPL - Type M, C45 & C90                  | Halogen Free                             |               |



# Metallic conduit systems

## Type SPL-EF - Adaptasteel



Type SPL-EF  
Enhanced Fire Performance  
Covered Steel Flexible Conduit

The **NEW SPL-EF** conduit systems are **Enhanced Fire Performance** rated, highly flexible, liquid tight with a wide temperature operating range.

Designed to meet the demand for 'interoperability' and compliance with stringent local and European fire safety requirements in the rail infrastructure market, the SPL-EF system, is accredited with the EN45545-2 standard achieving the highest HL3 fire performance rating for both interior and exterior locations.

The system provides higher performance levels of flexibility, impact and abrasion resistance, combined with enhanced chemical resistances especially to oils and greases, with a much higher and lower temperature rating (-40°C to +105°C), than any other metallic conduit system with a EN45545-2 HL3 rating.

Advantages include:

- EN45545-2 and BS EN 61386-1 & 23 accreditation
- HL3 - R22 & R23 rating
- Up to IP69 rating
- High flexibility
- Oil and hydrocarbons resistant
- Suitable for wide use underground and in any part of train vehicles and infrastructure

### Type SPL-EF - Adaptasteel **NEW**

#### Enhanced Fire Performance Covered Steel Flexible Conduit

**Materials:** Thermoplastic Jacket Covered Galvanised Steel / **Colour:** Black (BL) Only

| Part No. | Nominal Conduit Size | Outside Diameter | US Conduit Size | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|------------------|-----------------|-----------------|------------------|-------------|
| SPL-EF12 | 12mm                 | 14.2mm           | 5/16"           | 10.0mm          | 45mm             | 10, 25, 50m |
| SPL-EF16 | 16mm                 | 17.8mm           | 3/8"            | 12.5mm          | 50mm             | 10, 25, 50m |
| SPL-EF20 | 20mm                 | 21.1mm           | 1/2"            | 15.9mm          | 80mm             | 10, 25, 50m |
| SPL-EF25 | 25mm                 | 26.4mm           | 3/4"            | 21.0mm          | 110mm            | 10, 25, 50m |
| SPL-EF32 | 32mm                 | 33.1mm           | 1"              | 26.7mm          | 145mm            | 10, 25, 50m |
| SPL-EF40 | 40mm                 | 41.8mm           | 1 1/4"          | 35.4mm          | 180mm            | 10, 25m     |
| SPL-EF50 | 50mm                 | 47.9mm           | 1 1/2"          | 40.4mm          | 240mm            | 10, 25m     |

To order quote part number, colour & reel length, e.g. SPL-EF12/BL/50M

#### Approvals



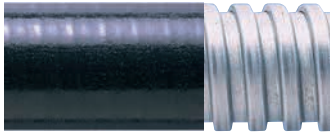
EN45545-2 HL3 - R22 & R23

| IP Rating                     | Appropriate Fitting                           | Temperature Range                         | UV Resistance |
|-------------------------------|---|---|---------------|
| <b>For use with:</b> Type SPL |   | Static Applications: -40°C to +105°C      | Very High     |
| IP40                          | N/A   | Moving Applications: -30°C to +105°C      |               |
| IP65                          | N/A   | <b>Flexibility &amp; Fatigue Life</b>     |               |
| IP66                          | Type SPL - Type M, C45 & C90                  | Very High Flexibility - High Fatigue Life |               |
| IP67                          | Type SPL - Type A, B, M, C45 & C90            | <b>Fire Performance &amp; EMI Screen</b>  |               |
| IP68                          | Type SPL - Type M, C45 & C90 (10 bar 30 mins) | Self Extinguishing                        |               |
| IP69                          | Type SPL - Type M, C45 & C90                  | Halogen Free                              |               |



# Metallic conduit systems

## Type SPLHC & SPUL- Adaptasteel



Type SPLHC  
Liquid Tight Extreme Temperature  
Covered Steel Flexible Conduit

3

### Type SPLHC - Adaptasteel

#### Liquid Tight Extreme Temperature Covered Steel Flexible Conduit

**Materials:** Thermoplastic Rubber Covered Galvanised Steel / **Colour:** Black (BL) Only

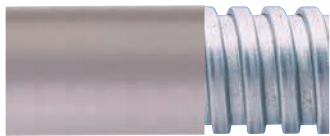
| Part No. | Nominal Conduit Size | Outside Diameter | US Conduit Size | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|------------------|-----------------|-----------------|------------------|-------------|
| SPLHC10  | 10mm                 | 11.8mm           | 1/4"            | 7.0mm           | 40mm             | 25, 50m     |
| SPLHC12  | 12mm                 | 14.2mm           | 5/16"           | 10.0mm          | 40mm             | 25, 50m     |
| SPLHC16  | 16mm                 | 17.8mm           | 3/8"            | 12.5mm          | 50mm             | 25m         |
| SPLHC20  | 20mm                 | 21.1mm           | 1/2"            | 15.9mm          | 80mm             | 25m         |
| SPLHC25  | 25mm                 | 26.4mm           | 3/4"            | 21.0mm          | 110mm            | 25m         |
| SPLHC32  | 32mm                 | 33.1mm           | 1"              | 26.7mm          | 145mm            | 25m         |
| SPLHC40  | 40mm                 | 41.8mm           | 1 1/4"          | 35.4mm          | 180mm            | 25m         |
| SPLHC50  | 50mm                 | 47.9mm           | 1 1/2"          | 40.4mm          | 240mm            | 25m         |
| SPLHC63  | 63mm                 | 59.7mm           | 2"              | 51.6mm          | 345mm            | 25m         |

To order quote part number, colour & reel length, e.g. SPLHC12/BL/50M

#### Approvals



| IP Rating                     | Appropriate Fitting                           | Temperature Range                         | UV Resistance |
|-------------------------------|---|---|---------------|
| <b>For use with:</b> Type SPL |   | Static Applications: -65°C to +135°C      | Very High     |
| IP40                          | N/A   | Moving Applications: -45°C to +150°C      |               |
| IP65                          | N/A   | <b>Flexibility &amp; Fatigue Life</b>     |               |
| IP66                          | Type SPL - Type M, C45 & C90                  | Very High Flexibility - High Fatigue Life |               |
| IP67                          | Type SPL - Type A, B, M, C45 & C90            | <b>Fire Performance &amp; EMI Screen</b>  |               |
| IP68                          | Type SPL - Type M, C45 & C90 (10 bar 30 mins) | Self Extinguishing                        |               |
| IP69                          | Type SPL - Type M, C45 & C90                  | Halogen Free                              |               |



Type SPUL  
Covered Steel Flexible Conduit

### Type SPUL - Adaptasteel

#### Liquid Tight UL Listed & CSA Approved Covered Steel Flexible Conduit

**Materials:** PVC Covered Galvanised Steel with Copper Packing / **Colour:** Black (BL), Grey (GR)

| Part No. | Nominal Conduit Size | Outside Diameter | US Conduit Size | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|------------------|-----------------|-----------------|------------------|-------------|
| SPUL16   | 16mm                 | 17.8mm           | 3/8"            | 12.5mm          | 50mm             | 25, 50m     |
| SPUL20   | 20mm                 | 21.1mm           | 1/2"            | 15.9mm          | 80mm             | 50m         |
| SPUL25   | 25mm                 | 26.4mm           | 3/4"            | 21.0mm          | 110mm            | 25, 50m     |
| SPUL32   | 32mm                 | 33.1mm           | 1"              | 26.7mm          | 145mm            | 25m         |
| SPUL40   | 40mm                 | 41.8mm           | 1 1/4"          | 35.4mm          | 180mm            | 25m         |
| SPUL50   | 50mm                 | 47.9mm           | 1 1/2"          | 40.4mm          | 240mm            | 25m         |
| SPUL63   | 63mm                 | 59.7mm           | 2"              | 51.6mm          | 345mm            | 10, 25m     |

To order quote part number, colour & reel length, e.g. SPUL16/BL/25M

#### Approvals

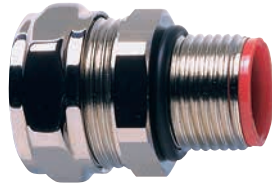


| IP Rating                     | Appropriate Fitting                           | Temperature Range                        | UV Resistance |
|-------------------------------|---|--|---------------|
| <b>For use with:</b> Type SPL |   | Static Applications: -20°C to +75°C      | High          |
| IP40                          | N/A   | Moving Applications: -5°C to +105°C      |               |
| IP65                          | N/A   | <b>Flexibility &amp; Fatigue Life</b>    |               |
| IP66                          | Type SPL - Type M, C45 & C90                  | Medium Flexibility - Medium Fatigue Life |               |
| IP67                          | Type SPL - Type A, B, M, C45 & C90            | <b>Fire Performance &amp; EMI Screen</b> |               |
| IP68                          | Type SPL - Type M, C45 & C90 (10 bar 30 mins) | Self Extinguishing                       |               |
| IP69                          | Type SPL - Type M, C45 & C90                  |  |               |



# Metallic conduit systems

## Type A & B - Adaptasteel



Type A  
Straight Fitting

### Type A - Adaptasteel

**Straight Fitting - Fixed External Male Thread** / For insertion into threaded entries & knockouts using a locknut (order locknut separately)

**Materials:** Nickel Plated Brass

| Part No.    | Nominal Conduit Size | US Conduit Size | Metric Thread |
|-------------|----------------------|-----------------|---------------|
| SPL16/M16/A | 16mm                 | 3/8"            | M16           |
| SPL16/M20/A | 16mm                 | 3/8"            | M20           |
| SPL20/M20/A | 20mm                 | 1/2"            | M20           |
| SPL25/M25/A | 25mm                 | 3/4"            | M25           |
| SPL32/M32/A | 32mm                 | 1"              | M32           |

#### Approvals



| IP Rating   | Appropriate Conduit | Temperature Range                    |
|---|---------------------|--------------------------------------|
| <b>For use with:</b> Type SPL / SPLHC / SPUL / SPL-EF / LFH-SPL |                     | Static Applications: -65°C to +150°C |
| IP40  | N/A                 | Moving Applications: -45°C to +150°C |
| IP65  | N/A                 |                                      |
| IP66  | N/A                 |                                      |
| IP67  | Yes                 |                                      |
| IP68  | N/A                 |                                      |
| IP69  | N/A                 |                                      |



Type B  
Straight Fitting

### Type B - Adaptasteel

**Straight Fitting - Swivel External Male Thread** / For insertion into threaded entries & knockouts using a locknut (order locknut separately)

**Materials:** Nickel Plated Brass

| Part No.    | Nominal Conduit Size | US Conduit Size | Metric Thread |
|-------------|----------------------|-----------------|---------------|
| SPL16/M16/B | 16mm                 | 3/8"            | M16           |
| SPL16/M20/B | 16mm                 | 3/8"            | M20           |
| SPL20/M20/B | 20mm                 | 1/2"            | M20           |
| SPL25/M25/B | 25mm                 | 3/4"            | M25           |
| SPL32/M32/B | 32mm                 | 1"              | M32           |

#### Approvals



| IP Rating   | Appropriate Conduit | Temperature Range                    |
|---|---------------------|--------------------------------------|
| <b>For use with:</b> Type SPL / SPLHC / SPUL / SPL-EF / LFH-SPL |                     | Static Applications: -65°C to +150°C |
| IP54  | N/A                 | Moving Applications: -45°C to +150°C |
| IP65  | N/A                 |                                      |
| IP66  | N/A                 |                                      |
| IP67  | Yes                 |                                      |
| IP68  | N/A                 |                                      |
| IP69  | N/A                 |                                      |

#### Fitting Characteristics



# Metallic conduit systems

## Type E & M - Adaptasteel



Type E  
Conduit Terminator

3

### Type E - Adaptasteel

**Conduit Terminator** / Cable protection at exit point

**Materials:** Nickel Plated Brass

| Part No. | Nominal Conduit Size | US Conduit Size |
|----------|----------------------|-----------------|
| SPL10/E  | 10mm                 | 1/4"            |
| SPL12/E  | 12mm                 | 5/16"           |
| SPL16/E  | 16mm                 | 3/8"            |
| SPL20/E  | 20mm                 | 1/2"            |
| SPL25/E  | 25mm                 | 3/4"            |
| SPL32/E  | 32mm                 | 1"              |
| SPL40/E  | 40mm                 | 1 1/4"          |
| SPL50/E  | 50mm                 | 1 1/2"          |
| SPL63/E  | 63mm                 | 2"              |

#### Approvals



#### IP Rating

#### Appropriate Conduit

#### Temperature Range

**For use with:** Type SPL / SPLHC / SPUL / SPL-EF / LFH-SPL

Static Applications: -65°C to +300°C

Moving Applications: -45°C to +250°C

|      |     |
|------|-----|
| IP54 | Yes |
| IP65 | N/A |
| IP66 | N/A |
| IP67 | N/A |
| IP68 | N/A |
| IP69 | N/A |



Type M  
Coupler

### Type M - Adaptasteel

**Coupler** / For coupling separate lengths of liquid tight conduit

**Materials:** Nickel Plated Brass, Co-Polyester Seals

| Part No.  | Nominal Conduit Size | US Conduit Size | Bore   |
|-----------|----------------------|-----------------|--------|
| SPL16/U/M | 16mm                 | 3/8"            | 10.3mm |
| SPL20/U/M | 20mm                 | 1/2"            | 14.3mm |
| SPL25/U/M | 25mm                 | 3/4"            | 17.6mm |
| SPL32/U/M | 32mm                 | 1"              | 24.0mm |
| SPL40/U/M | 40mm                 | 1 1/4"          | 33.0mm |
| SPL50/U/M | 50mm                 | 1 1/2"          | 38.5mm |
| SPL63/U/M | 63mm                 | 2"              | 50.0mm |

#### Approvals



#### IP Rating

#### Appropriate Conduit

#### Temperature Range

**For use with:** Type SPL / SPLHC / SPUL / SPL-EF / LFH-SPL

Static Applications: -65°C to +150°C

Moving Applications: -45°C to +150°C

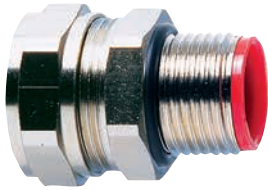
|      |                     |
|------|---------------------|
| IP54 | N/A                 |
| IP65 | N/A                 |
| IP66 | Yes                 |
| IP67 | Yes                 |
| IP68 | Yes (10 bar 30mins) |
| IP69 | Yes                 |

#### Fitting Characteristics



# Metallic conduit systems

## Type M - Adaptasteel



Type M  
Straight Swivel Fitting

### Type M - Adaptasteel

**Straight Swivel Fitting - External Male Thread** / For insertion into threaded entries & knockouts using a locknut (order locknut separately)

**Materials:** Nickel Plated Brass

| Part No.    | Nominal Conduit Size | US Conduit Size | Metric Thread |
|-------------|----------------------|-----------------|---------------|
| SPL10/M12/M | 10mm                 | 1/4"            | M12           |
| SPL10/M16/M | 10mm                 | 1/4"            | M16           |
| SPL12/M16/M | 12mm                 | 5/16"           | M16           |
| SPL16/M16/M | 16mm                 | 3/8"            | M16           |
| SPL16/M20/M | 16mm                 | 3/8"            | M20           |
| SPL20/M20/M | 20mm                 | 1/2"            | M20           |
| SPL25/M25/M | 25mm                 | 3/4"            | M25           |
| SPL32/M32/M | 32mm                 | 1"              | M32           |
| SPL40/M40/M | 40mm                 | 1 1/4"          | M40           |
| SPL50/M50/M | 50mm                 | 1 1/2"          | M50           |
| SPL63/M63/M | 63mm                 | 2"              | M63           |

| Part No.     | Nominal Conduit Size | US Conduit Size | PG Thread |
|--------------|----------------------|-----------------|-----------|
| SPL10/PG7/M  | 10mm                 | 1/4"            | PG7       |
| SPL12/PG9/M  | 12mm                 | 5/16"           | PG9       |
| SPL16/PG11/M | 16mm                 | 3/8"            | PG11      |
| SPL16/PG13/M | 16mm                 | 3/8"            | PG13,5    |
| SPL20/PG16/M | 20mm                 | 1/2"            | PG16      |
| SPL25/PG21/M | 25mm                 | 3/4"            | PG21      |
| SPL32/PG29/M | 32mm                 | 1"              | PG29      |
| SPL40/PG36/M | 40mm                 | 1 1/4"          | PG36      |
| SPL50/PG42/M | 50mm                 | 1 1/2"          | PG42      |
| SPL63/PG48/M | 63mm                 | 2"              | PG48      |

| Part No.    | Nominal Conduit Size | US Conduit Size | NPT Thread |
|-------------|----------------------|-----------------|------------|
| SPL16/038/M | 16mm                 | 3/8"            | 3/8"       |
| SPL20/050/M | 20mm                 | 1/2"            | 1/2"       |
| SPL25/075/M | 25mm                 | 3/4"            | 3/4"       |
| SPL32/100/M | 32mm                 | 1"              | 1"         |
| SPL40/125/M | 40mm                 | 1 1/4"          | 1 1/4"     |
| SPL50/150/M | 50mm                 | 1 1/2"          | 1 1/2"     |
| SPL63/200/M | 63mm                 | 2"              | 2"         |

#### Approvals



UL514B  
File No. E60625

#### IP Rating

#### Appropriate Conduit

**For use with:** Type SPL / SPLHC / SPUL / SPL-EF / LFH-SPL

|      |                     |
|------|---------------------|
| IP54 | N/A                 |
| IP65 | N/A                 |
| IP66 | Yes                 |
| IP67 | Yes                 |
| IP68 | Yes (10 bar 30mins) |
| IP69 | Yes                 |

#### Temperature Range

Static Applications: -65°C to +150°C

Moving Applications: -45°C to +150°C

#### Fitting Characteristics



# Metallic conduit systems

## Type C90 & 45 - Adaptasteel



**Type A**  
90° Combined  
Fitting & Elbow

### Type C90 - Adaptasteel

90° Combined Fitting & Elbow - Fixed External Male Thread / For insertion into threaded entries & knockouts using a locknut

(order locknut separately)

**Materials:** Nickel Plated Brass

| Part No.      | Nominal Conduit Size | US Conduit Size | Metric Thread | Part No.      | Nominal Conduit Size | US Conduit Size | NPT Thread |
|---------------|----------------------|-----------------|---------------|---------------|----------------------|-----------------|------------|
| SPL16/M16/C90 | 16mm                 | 3/8"            | M16           | SPL16/038/C90 | 16mm                 | 3/8"            | 3/8"       |
| SPL16/M20/C90 | 16mm                 | 3/8"            | M20           | SPL16/050/C90 | 16mm                 | 3/8"            | 3/8"       |
| SPL20/M20/C90 | 20mm                 | 1/2"            | M20           | SPL20/050/C90 | 20mm                 | 1/2"            | 1/2"       |
| SPL25/M25/C90 | 25mm                 | 3/4"            | M25           | SPL25/075/C90 | 25mm                 | 3/4"            | 3/4"       |
| SPL32/M32/C90 | 32mm                 | 1"              | M32           | SPL32/100/C90 | 32mm                 | 1"              | 1"         |
| SPL40/M40/C90 | 40mm                 | 1 1/4"          | M40           | SPL40/125/C90 | 40mm                 | 1 1/4"          | 1 1/4"     |
| SPL50/M50/C90 | 50mm                 | 1 1/2"          | M50           | SPL50/150/C90 | 50mm                 | 1 1/2"          | 1 1/2"     |
| SPL63/M63/C90 | 63mm                 | 2"              | M63           | SPL63/200/C90 | 63mm                 | 2"              | 2"         |

### Approvals



**UL** UL514B  
File No. E60625

### IP Rating

### Appropriate Conduit

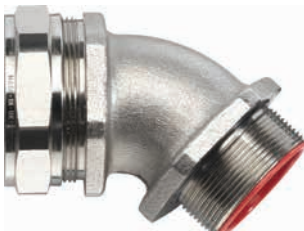
**For use with:** Type SPL / SPLHC / SPUL / SPL-EF / LFH-SPL

|      |                      |
|------|----------------------|
| IP54 | N/A                  |
| IP65 | N/A                  |
| IP66 | Yes                  |
| IP67 | Yes                  |
| IP68 | Yes (10 bar 30 mins) |
| IP69 | Yes                  |

### Temperature Range

Static Applications: -65°C to +150°C

Moving Applications: -45°C to +150°C



**Type 45**  
45° Elbow

### Type 45 - Adaptasteel

45° Elbow - Fixed External Male Thread / For insertion into threaded entries & knockouts using a locknut (order locknut separately)

**Materials:** Nickel Plated Brass

| Part No.      | Nominal Conduit Size | US Conduit Size | Metric Thread | Part No.      | Nominal Conduit Size | US Conduit Size | NPT Thread |
|---------------|----------------------|-----------------|---------------|---------------|----------------------|-----------------|------------|
| SPL16/M16/C45 | 16mm                 | 3/8"            | M16           | SPL16/038/C45 | 16mm                 | 3/8"            | 3/8"       |
| SPL16/M20/C45 | 16mm                 | 3/8"            | M20           | SPL16/050/C45 | 16mm                 | 3/8"            | 3/8"       |
| SPL20/M20/C45 | 20mm                 | 1/2"            | M20           | SPL20/050/C45 | 20mm                 | 1/2"            | 1/2"       |
| SPL25/M25/C45 | 25mm                 | 3/4"            | M25           | SPL25/075/C45 | 25mm                 | 3/4"            | 3/4"       |
| SPL32/M32/C45 | 32mm                 | 1"              | M32           | SPL32/100/C45 | 32mm                 | 1"              | 1"         |
| SPL40/M40/C45 | 40mm                 | 1 1/4"          | M40           | SPL40/125/C45 | 40mm                 | 1 1/4"          | 1 1/4"     |
| SPL50/M50/C45 | 50mm                 | 1 1/2"          | M50           | SPL50/150/C45 | 50mm                 | 1 1/2"          | 1 1/2"     |
| SPL63/M63/C45 | 63mm                 | 2"              | M63           | SPL63/200/C45 | 63mm                 | 2"              | 2"         |

### Approvals



**UL** UL514B  
File No. E60625

### IP Rating

### Appropriate Conduit

**For use with:** Type SPL / SPLHC / SPUL / SPL-EF / LFH-SPL

|      |                      |
|------|----------------------|
| IP54 | N/A                  |
| IP65 | N/A                  |
| IP66 | Yes                  |
| IP67 | Yes                  |
| IP68 | Yes (10 bar 30 mins) |
| IP69 | Yes                  |

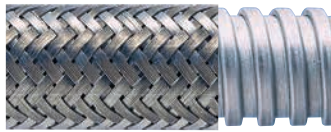
### Temperature Range

Static Applications: -65°C to +150°C

Moving Applications: -45°C to +150°C

# Metallic conduit systems

## EMI screen Type SB & STC - Adaptasteel



**Type SB**  
Galvanised Steel,  
Overbraided Steel,  
Enhanced EMI Screening,  
Flexible Conduit

### Type SB - Adaptasteel

Galvanised Steel, Overbraided Steel, Enhanced EMI Screening, Flexible Conduit



**Materials:** Galvanised Steel Conduit, Galvanised Steel Overbraid

| Part No. | Nominal Conduit Size | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|------------------|-----------------|------------------|-------------|
| SB10     | 10mm                 | 10.0mm           | 6.8mm           | 25mm             | 25m         |
| SB12     | 12mm                 | 14.0mm           | 10.3mm          | 30mm             | 25m         |
| SB16     | 16mm                 | 17.5mm           | 13.0mm          | 35mm             | 25m         |
| SB20     | 20mm                 | 21.5mm           | 16.9mm          | 45mm             | 25m         |
| SB25     | 25mm                 | 26.0mm           | 21.4mm          | 55mm             | 25m         |
| SB32     | 32mm                 | 34.0mm           | 28.1mm          | 60mm             | 10m         |
| SB40     | 40mm                 | 43.6mm           | 37.7mm          | 80mm             | 10m         |
| SB50     | 50mm                 | 56.0mm           | 48.4mm          | 90mm             | 10m         |
| SB63     | 63mm                 | 65.0mm           | 57.5mm          | 115mm            | 10m         |
| SB75     | 75mm                 | 80.0mm           | 70.0mm          | 150mm            | 10m         |

To order quote part number & reel length, e.g. SB12/25M

### Approvals



| IP Rating                    | Appropriate Fitting  | Temperature Range                        | UV Resistance   |
|------------------------------|----------------------|--|---|
| <b>For use with:</b> Type SB |                      | Static Applications: -50°C to +300°C     | Very High   |
| IP40                         | Type SB - Type A & B | Moving Applications: -45°C to +250°C     |   |
| IP65                         | N/A                  | <b>Flexibility &amp; Fatigue Life</b>    |   |
| IP66                         | N/A                  | High Flexibility - High Fatigue Life     |   |
| IP67                         | N/A                  | <b>Fire Performance &amp; EMI Screen</b> |   |
| IP68                         | N/A                  |  |   |
| IP69                         | N/A                  |  |   |



**Type STC**  
Galvanised Steel,  
Overbraided Tinned Copper,  
High EMI Screening,  
Flexible Conduit

### Type STC - Adaptasteel

Galvanised Steel, Overbraided Tinned Copper, High EMI Screening, Flexible Conduit



**Materials:** Galvanised Steel Conduit, Tinned Copper Overbraid

| Part No. | Nominal Conduit Size | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|------------------|-----------------|------------------|-------------|
| STC10    | 10mm                 | 10.0mm           | 6.8mm           | 25mm             | 25m         |
| STC12    | 12mm                 | 14.0mm           | 10.3mm          | 30mm             | 25m         |
| STC16    | 16mm                 | 17.5mm           | 13.0mm          | 35mm             | 25m         |
| STC20    | 20mm                 | 21.5mm           | 16.9mm          | 45mm             | 25m         |
| STC25    | 25mm                 | 26.0mm           | 21.4mm          | 55mm             | 25m         |
| STC32    | 32mm                 | 34.0mm           | 28.1mm          | 60mm             | 10m         |
| STC40    | 40mm                 | 43.6mm           | 37.7mm          | 80mm             | 10m         |
| STC50    | 50mm                 | 56.0mm           | 48.4mm          | 90mm             | 10m         |

To order quote part number & reel length, e.g. STC12/25M

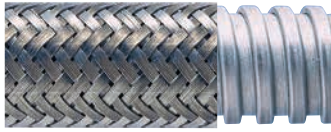
### Approvals



| IP Rating                    | Appropriate Fitting  | Temperature Range                        | UV Resistance   |
|------------------------------|----------------------|--|---|
| <b>For use with:</b> Type SB |                      | Static Applications: -50°C to +300°C     | Very High   |
| IP40                         | Type SB - Type A & B | Moving Applications: -45°C to +250°C     |   |
| IP65                         | N/A                  | <b>Flexibility &amp; Fatigue Life</b>    |   |
| IP66                         | N/A                  | High Flexibility - High Fatigue Life     |   |
| IP67                         | N/A                  | <b>Fire Performance &amp; EMI Screen</b> |   |
| IP68                         | N/A                  |  |   |
| IP69                         | N/A                  |  |   |

# Metallic conduit systems

## EMI screen Type SSB & SSBGS - Adaptasteel



Type SSB  
Overbraided,  
Standard EMI Screening,  
Flexible Conduit

### Type SSB - Adaptasteel

Overbraided, Standard EMI Screening, Flexible Conduit

**Materials:** Stainless Steel Conduit, Stainless Steel Overbraid

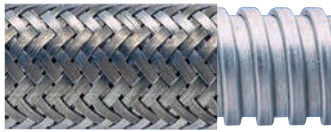
| Part No. | Nominal Conduit Size | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|------------------|-----------------|------------------|-------------|
| SSB12    | 12mm                 | 14.0mm           | 10.3mm          | 30mm             | 25m         |
| SSB16    | 16mm                 | 17.5mm           | 13.0mm          | 35mm             | 25m         |
| SSB20    | 20mm                 | 21.5mm           | 16.9mm          | 45mm             | 25m         |
| SSB25    | 25mm                 | 26.0mm           | 21.4mm          | 55mm             | 25m         |
| SSB32    | 32mm                 | 34.0mm           | 28.1mm          | 60mm             | 10m         |

To order quote part number & reel length, e.g. SSB12/25M

#### Approvals



| IP Rating                    | Appropriate Fitting  | Temperature Range                        | UV Resistance |
|------------------------------|----------------------|--|---------------|
| <b>For use with:</b> Type SB |                      | Static Applications: -50°C to +300°C     | Very High     |
| IP40                         | Type SB - Type A & B | Moving Applications: -45°C to +250°C     |               |
| IP65                         | N/A                  | <b>Flexibility &amp; Fatigue Life</b>    |               |
| IP66                         | N/A                  | High Flexibility - High Fatigue Life     |               |
| IP67                         | N/A                  | <b>Fire Performance &amp; EMI Screen</b> |               |
| IP68                         | N/A                  |  |               |
| IP69                         | N/A                  |  |               |



Type SSBGS  
Overbraided,  
Standard EMI Screening,  
Flexible Conduit

### Type SSBGS - Adaptasteel

Overbraided, Standard EMI Screening, Flexible Conduit

**Materials:** Galvanised Steel Conduit, Stainless Steel Overbraid

| Part No. | Nominal Conduit Size | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|------------------|-----------------|------------------|-------------|
| SSBGS12  | 12mm                 | 14.0mm           | 10.3mm          | 30mm             | 25m         |
| SSBGS16  | 16mm                 | 17.5mm           | 13.0mm          | 35mm             | 25m         |
| SSBGS20  | 20mm                 | 21.5mm           | 16.9mm          | 45mm             | 25m         |
| SSBGS25  | 25mm                 | 26.0mm           | 21.4mm          | 55mm             | 25m         |
| SSBGS32  | 32mm                 | 34.0mm           | 28.1mm          | 60mm             | 10m         |

To order quote part number & reel length, e.g. SSBGS12/25M

#### Approvals



| IP Rating                    | Appropriate Fitting  | Temperature Range                        | UV Resistance |
|------------------------------|----------------------|--|---------------|
| <b>For use with:</b> Type SB |                      | Static Applications: -50°C to +300°C     | Very High     |
| IP40                         | Type SB - Type A & B | Moving Applications: -45°C to +250°C     |               |
| IP65                         | N/A                  | <b>Flexibility &amp; Fatigue Life</b>    |               |
| IP66                         | N/A                  | High Flexibility - High Fatigue Life     |               |
| IP67                         | N/A                  | <b>Fire Performance &amp; EMI Screen</b> |               |
| IP68                         | N/A                  |  |               |
| IP69                         | N/A                  |  |               |



# Metallic conduit systems

## EMI screen Type A & B - Adaptasteel



Type A  
Straight Fitting

### Type A - Adaptasteel

**Straight Fitting - Fixed External Male Thread** / For insertion into knockouts using a locknut (order locknuts separately)

**Materials:** Nickel Plated Brass

| Part No.   | Nominal Conduit Size | Metric Thread |
|------------|----------------------|---------------|
| SB10/M12/A | 10mm                 | M12           |
| SB12/M16/A | 12mm                 | M16           |
| SB16/M16/A | 16mm                 | M16           |
| SB20/M20/A | 20mm                 | M20           |
| SB25/M25/A | 25mm                 | M25           |
| SB32/M32/A | 32mm                 | M32           |
| SB40/M40/A | 40mm                 | M40           |
| SB50/M50/A | 50mm                 | M50           |
| SB63/M63/A | 63mm                 | M63           |
| SB75/M75/A | 75mm                 | M75           |

#### Approvals



| IP Rating  | Appropriate Conduit | Temperature Range  |
|--|---------------------|--|
| <b>For use with:</b> Type SB / STC / SSB / SSBGS |                     |  |
| IP40   | Yes                 | Static Applications: -50°C to +300°C<br>Moving Applications: -45°C to +250°C |
| IP65   | N/A                 |  |
| IP66   | N/A                 |  |
| IP67   | N/A                 |  |
| IP68   | N/A                 |  |
| IP69   | N/A                 |  |



Type B  
Straight Fitting

### Type B - Adaptasteel

**Straight Fitting - Swivel External Male Thread** / For insertion into threaded entries & knockouts using a locknut (order locknut separately)

**Materials:** Nickel Plated Brass

| Part No.   | Nominal Conduit Size | Metric Thread |
|------------|----------------------|---------------|
| SB10/M12/B | 10mm                 | M12           |
| SB12/M16/B | 12mm                 | M16           |
| SB16/M16/B | 16mm                 | M16           |
| SB20/M20/B | 20mm                 | M20           |
| SB25/M25/B | 25mm                 | M25           |
| SB32/M32/B | 32mm                 | M32           |
| SB40/M40/B | 40mm                 | M40           |
| SB50/M50/B | 50mm                 | M50           |

#### Approvals



| IP Rating  | Appropriate Conduit | Temperature Range  |
|--|---------------------|--|
| <b>For use with:</b> Type SB / STC / SSB / SSBGS |                     |  |
| IP40   | Yes                 | Static Applications: -50°C to +300°C<br>Moving Applications: -45°C to +250°C |
| IP65   | N/A                 |  |
| IP66   | N/A                 |  |
| IP67   | N/A                 |  |
| IP68   | N/A                 |  |
| IP69   | N/A                 |  |

#### Fitting Characteristics



# Metallic conduit systems

## EMI screen, liquid resistant Type SPB & SPTC - Adaptasteel



Type SPB  
Overbraided,  
Enhanced EMI Screening,  
Flexible Conduit

3

### Type SPB - Adaptasteel

Overbraided, Enhanced EMI Screening, Flexible Conduit


**Materials:** Galvanised Steel Conduit with PVC Covering, Galvanised Steel Overbraid

| Part No. | Nominal Conduit Size | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|------------------|-----------------|------------------|-------------|
| SPB10    | 10mm                 | 11.5mm           | 6.8mm           | 25mm             | 25m         |
| SPB12    | 12mm                 | 15.5mm           | 10.3mm          | 25mm             | 25m         |
| SPB16    | 16mm                 | 18.5mm           | 13.0mm          | 30mm             | 25m         |
| SPB20    | 20mm                 | 23.0mm           | 16.9mm          | 35mm             | 25m         |
| SPB25    | 25mm                 | 27.5mm           | 21.4mm          | 55mm             | 25m         |
| SPB32    | 32mm                 | 35.5mm           | 28.1mm          | 60mm             | 10m         |
| SPB40    | 40mm                 | 45.1mm           | 37.7mm          | 80mm             | 10m         |
| SPB50    | 50mm                 | 57.5mm           | 48.4mm          | 90mm             | 10m         |

To order quote part number & reel length, e.g. SPB12/25M

#### Approvals



| IP Rating                     | Appropriate Fitting  | Temperature Range                        | UV Resistance   |
|-------------------------------|----------------------|--|---|
| <b>For use with:</b> Type SPB |                      | Static Applications: -15°C to +70°C      | Very High   |
| IP54                          | Type SB - Type A & B | Moving Applications: -5°C to +90°C       |  |
| IP65                          | N/A                  | <b>Flexibility &amp; Fatigue Life</b>    |   |
| IP66                          | N/A                  | High Flexibility - Medium Fatigue Life   |   |
| IP67                          | N/A                  | <b>Fire Performance &amp; EMI Screen</b> |   |
| IP68                          | N/A                  | Self Extinguishing                       |   |
| IP69                          | N/A                  |  |   |



Type SPTC  
Overbraided Tinned Copper,  
High EMI Screening,  
Flexible Conduit

### Type SPTC - Adaptasteel

Overbraided Tinned Copper, High EMI Screening, Flexible Conduit


**Materials:** Galvanised Steel Conduit with PVC Covering, Tinned Copper Overbraid

| Part No. | Nominal Conduit Size | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|------------------|-----------------|------------------|-------------|
| SPTC10   | 10mm                 | 11.5mm           | 6.8mm           | 25mm             | 25m         |
| SPTC12   | 12mm                 | 15.5mm           | 10.3mm          | 25mm             | 25m         |
| SPTC16   | 16mm                 | 18.5mm           | 13.0mm          | 30mm             | 25m         |
| SPTC20   | 20mm                 | 23.0mm           | 16.9mm          | 35mm             | 25m         |
| SPTC25   | 25mm                 | 27.5mm           | 21.4mm          | 55mm             | 25m         |
| SPTC32   | 32mm                 | 35.5mm           | 28.1mm          | 60mm             | 10m         |
| SPTC40   | 40mm                 | 45.1mm           | 37.7mm          | 80mm             | 10m         |
| SPTC50   | 50mm                 | 57.5mm           | 48.4mm          | 90mm             | 10m         |

To order quote part number & reel length, e.g. SPTC12/25M

#### Approvals



| IP Rating                    | Appropriate Fitting  | Temperature Range                        | UV Resistance   |
|------------------------------|----------------------|--|---|
| <b>For use with:</b> Type SB |                      | Static Applications: -15°C to +70°C      | Very High   |
| IP54                         | Type SB - Type A & B | Moving Applications: -5°C to +90°C       |  |
| IP65                         | N/A                  | <b>Flexibility &amp; Fatigue Life</b>    |   |
| IP66                         | N/A                  | High Flexibility - Medium Fatigue Life   |   |
| IP67                         | N/A                  | <b>Fire Performance &amp; EMI Screen</b> |   |
| IP68                         | N/A                  | Self Extinguishing                       |   |
| IP69                         | N/A                  |  |   |



# Metallic conduit systems

## EMI screen, liquid resistant Type LFH-SPSS & A - Adaptasteel



Type LFH-SPSS  
Overbraided,  
Enhanced EMI Screening,  
Flexible Conduit

### Type LFH-SPSS - Adaptasteel

Overbraided, Enhanced EMI Screening, Flexible Conduit

**Materials:** Galvanised Steel Conduit with Low Fire Hazard Jacket, Stainless Steel Overbraid

| Part No.   | Nominal Conduit Size | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|------------|----------------------|------------------|-----------------|------------------|-------------|
| LFH-SPSS12 | 12mm                 | 15.0mm           | 10.3mm          | 30mm             | 25m         |
| LFH-SPSS16 | 16mm                 | 18.0mm           | 13.0mm          | 35mm             | 25m         |
| LFH-SPSS20 | 20mm                 | 22.5mm           | 16.9mm          | 45mm             | 25m         |
| LFH-SPSS25 | 25mm                 | 27.0mm           | 21.4mm          | 55mm             | 25m         |
| LFH-SPSS32 | 32mm                 | 35.0mm           | 28.1mm          | 60mm             | 10m         |
| LFH-SPSS40 | 40mm                 | 45.5mm           | 37.7mm          | 80mm             | 10m         |
| LFH-SPSS50 | 50mm                 | 56.0mm           | 48.4mm          | 90mm             | 10m         |

To order quote part number & reel length, e.g. LFH-SPSS12/25M

### Approvals



| IP Rating                     | Appropriate Fitting  | Temperature Range                        | UV Resistance |
|-------------------------------|----------------------|--|---------------|
| <b>For use with:</b> Type SPB |                      | Static Applications: -20°C to +90°C      | Very High     |
| IP54                          | Type SB - Type A & B | Moving Applications: -5°C to +105°C      |               |
| IP65                          | N/A                  | <b>Flexibility &amp; Fatigue Life</b>    |               |
| IP66                          | N/A                  | Medium Flexibility - Medium Fatigue Life |               |
| IP67                          | N/A                  | <b>Fire Performance &amp; EMI Screen</b> |               |
| IP68                          | N/A                  | Self Extinguishing                       |               |
| IP69                          | N/A                  |  |               |



Type A  
Straight Fitting

### Type A - Adaptasteel

Straight Fitting - Fixed External Male Thread / For insertion into knockouts using a locknut (order locknut separately)

**Materials:** Nickel Plated Brass

| Part No.    | Nominal Conduit Size | Metric Thread |
|-------------|----------------------|---------------|
| SPB10/M12/A | 10mm                 | M12           |
| SPB12/M16/A | 12mm                 | M16           |
| SPB16/M16/A | 16mm                 | M16           |
| SPB20/M20/A | 20mm                 | M20           |
| SPB25/M25/A | 25mm                 | M25           |
| SPB32/M32/A | 32mm                 | M32           |
| SPB40/M40/A | 40mm                 | M40           |
| SPB50/M50/A | 50mm                 | M50           |

### Approvals



| IP Rating                            | Appropriate Conduit | Temperature Range                    |
|--------------------------------------|---------------------|--------------------------------------|
| <b>For use with:</b> Type SPB / SPTC |                     | Static Applications: -50°C to +300°C |
| IP54                                 | Yes                 | Moving Applications: -45°C to +250°C |
| IP65                                 | N/A                 |                                      |
| IP66                                 | N/A                 |                                      |
| IP67                                 | N/A                 |                                      |
| IP68                                 | N/A                 |                                      |
| IP69                                 | N/A                 |                                      |

# Metallic conduit systems

## EMI screen, liquid resistant Type B & Liquid tight, high strength Type SPLHCB - Adaptasteel



Type B  
Straight Fitting

### Type B - Adaptasteel

**Straight Fitting - Swivel External Male Thread** / For insertion into threaded entries & knockouts using a locknut (order locknut separately)

**Materials:** Nickel Plated Brass

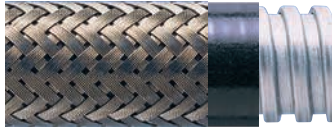
| Part No.    | Nominal Conduit Size | Metric Thread |
|-------------|----------------------|---------------|
| SPB10/M12/B | 10mm                 | M12           |
| SPB12/M16/B | 12mm                 | M16           |
| SPB16/M16/B | 16mm                 | M16           |
| SPB20/M20/B | 20mm                 | M20           |
| SPB25/M25/B | 25mm                 | M25           |
| SPB32/M32/B | 32mm                 | M32           |
| SPB40/M40/B | 40mm                 | M40           |
| SPB50/M50/B | 50mm                 | M50           |

### Approvals



| IP Rating                            | Appropriate Conduit | Temperature Range                    |
|--------------------------------------|---------------------|--------------------------------------|
| <b>For use with:</b> Type SPB / SPTC |                     | Static Applications: -50°C to +300°C |
| IP54                                 | Yes                 | Moving Applications: -45°C to +250°C |
| IP65                                 | N/A                 |                                      |
| IP66                                 | N/A                 |                                      |
| IP67                                 | N/A                 |                                      |
| IP68                                 | N/A                 |                                      |
| IP69                                 | N/A                 |                                      |

### Fitting Characteristics



Type SPLHCB  
Extreme Temperature,  
Abuse Resistant, Overbraided,  
Standard EMI Screening,  
Flexible Conduit

### Type SPLHCB - Adaptasteel

**Extreme Temperature, Abuse Resistant, Overbraided, Standard EMI Screening, Flexible Conduit**

**Materials:** Galvanised Steel Conduit, Smooth Thermoplastic Rubber Covering, Stainless Steel 316 Overbraid

| Part No. | Nominal Conduit Size | Outside Diameter | Inside Diameter | Min. Bend Radius | Reel Length |
|----------|----------------------|------------------|-----------------|------------------|-------------|
| SPLHCB16 | 16mm                 | 19.8mm           | 12.5mm          | 80mm             | 25m         |
| SPLHCB20 | 20mm                 | 23.1mm           | 15.9mm          | 95mm             | 25m         |
| SPLHCB25 | 25mm                 | 28.4mm           | 21.0mm          | 115mm            | 25m         |
| SPLHCB32 | 32mm                 | 35.1mm           | 26.7mm          | 145mm            | 10m         |
| SPLHCB40 | 40mm                 | 44.0mm           | 35.4mm          | 180mm            | 10m         |
| SPLHCB50 | 50mm                 | 56.0mm           | 40.4mm          | 240mm            | 10m         |

To order quote part number & reel length, e.g. SPLHCB16/25M

### Approvals



| IP Rating                      | Appropriate Fitting    | Temperature Range                    | UV Resistance |
|--------------------------------|------------------------|--------------------------------------|---------------|
| <b>For use with:</b> Type SPLB |                        | Static Applications: -65°C to +135°C | Very High     |
| IP40                           | N/A                    | Moving Applications: -45°C to +150°C |               |
| IP65                           | N/A                    |                                      |               |
| IP66                           | Type SPLB - Type A & B |                                      |               |
| IP67                           | Type SPLB - Type A & B |                                      |               |
| IP68                           | Type SPLB - Type A & B |                                      |               |
| IP69                           | N/A                    |                                      |               |

### Flexibility & Fatigue Life

Very High Flexibility - High Fatigue Life

### Fire Performance & EMI Screen

Self Extinguishing

Halogen Free



# Metallic conduit systems

## Liquid tight, high strength Type A & B - Adaptasteel



Type A  
Straight Fitting

### Type A - Adaptasteel

**Straight Fitting - Fixed External Male Thread** / For insertion into knockouts using a locknut (order locknut separately)

**Materials:** Nickel Plated Brass

| Part No.     | Nominal Conduit Size | Metric Thread |
|--------------|----------------------|---------------|
| SPLB16/M16/A | 16mm                 | M16           |
| SPLB16/M20/A | 16mm                 | M20           |
| SPLB20/M20/A | 20mm                 | M20           |
| SPLB25/M25/A | 25mm                 | M25           |
| SPLB32/M32/A | 32mm                 | M32           |
| SPLB40/M40/A | 40mm                 | M40           |
| SPLB50/M50/A | 50mm                 | M50           |

### Approvals



| IP Rating                        | Appropriate Conduit | Temperature Range                    |
|----------------------------------|---------------------|--------------------------------------|
| <b>For use with:</b> Type SPLHCB |                     |                                      |
| IP40                             | N/A                 | Static Applications: -65°C to +135°C |
| IP65                             | N/A                 | Moving Applications: -45°C to +150°C |
| IP66                             | Yes                 |                                      |
| IP67                             | Yes                 |                                      |
| IP68                             | Yes (10 bar 30mins) |                                      |
| IP69                             | N/A                 |                                      |



Type B  
Straight Fitting

### Type B - Adaptasteel

**Straight Fitting - Swivel External Male Thread** / For insertion into threaded entries & knockouts using a locknut (order locknut separately)

**Materials:** Nickel Plated Brass

| Part No.     | Nominal Conduit Size | Metric Thread |
|--------------|----------------------|---------------|
| SPLB16/M16/B | 16mm                 | M16           |
| SPLB16/M20/B | 16mm                 | M20           |
| SPLB20/M20/B | 20mm                 | M20           |
| SPLB25/M25/B | 25mm                 | M25           |
| SPLB32/M32/B | 32mm                 | M32           |

### Approvals



| IP Rating                        | Appropriate Conduit | Temperature Range                    |
|----------------------------------|---------------------|--------------------------------------|
| <b>For use with:</b> Type SPLHCB |                     |                                      |
| IP40                             | N/A                 | Static Applications: -65°C to +135°C |
| IP65                             | N/A                 | Moving Applications: -45°C to +150°C |
| IP66                             | Yes                 |                                      |
| IP67                             | Yes                 |                                      |
| IP68                             | Yes (10 bar 30mins) |                                      |
| IP69                             | N/A                 |                                      |

### Fitting Characteristics



# Metallic conduit systems

## Accessories - Type LNB/LNS, P & PSA



3 Type LNB Metallic Locknuts



LNS Locknut

### Type LNB/LNS

**Metallic Locknuts** / Materials: Nickel Plated Brass, Galvanised Steel

| Metric Thread | Part No.            |                  | PG Thread | Part No.            |       | NPT Thread | Part No. |
|---------------|---------------------|------------------|-----------|---------------------|-------|------------|----------|
|               | Nickel Plated Brass | Galvanised Steel |           | Nickel Plated Brass | Steel |            |          |
| M12 x 1.0     | LNB/M12X1           |                  | PG7       | LNB/PG7             |       | 3/8"       | LNS/038  |
| M12 x 1.5     | LNB/M12             |                  | PG9       | LNB/PG9             |       | 1/2"       | LNS/050  |
| M16           | LNB/M16             | LNS/M16          | PG11      | LNB/PG11            |       | 3/4"       | LNS/075  |
| M20           | LNB/M20             | LNS/M20          | PG13,5    | LNB/PG13            |       | 1"         | LNS/100  |
| M25           | LNB/M25             | LNS/M25          | PG16      | LNB/PG16            |       | 1 1/4"     | LNS/125  |
| M32           | LNB/M32             | LNS/M32          | PG21      | LNB/PG21            |       | 1 1/2"     | LNS/150  |
| M40           | LNB/M40             |                  | PG29      | LNB/PG29            |       | 2"         | LNS/200  |
| M50           | LNB/M50             |                  | PG36      | LNB/PG36            |       |            |          |
| M63           | LNB/M63             |                  | PG42      | LNB/PG42            |       |            |          |
| M75           | LNB/M75             |                  | PG48      | LNB/PG48            |       |            |          |



Type P  
P-Clip Conduit Support

### Type P

**P-Clip Conduit Support** / Materials: Plated Steel or Stainless Steel Construction with PVC Insert

| Plated Steel Part No. | Stainless Steel Part No. | Nominal Conduit Size | Plated Steel Part No. | Stainless Steel Part No. | Nominal Conduit Size |
|-----------------------|--------------------------|----------------------|-----------------------|--------------------------|----------------------|
| PCLIP/10              |                          | 10                   | PCLIP/32              | PCLIP/32SS               | 32                   |
| PCLIP/12              |                          | 12                   | PCLIP/40              |                          | 40                   |
| PCLIP/16              | PCLIP/16SS               | 16                   | PCLIP/50              |                          | 50                   |
| PCLIP/20              | PCLIP/20SS               | 20                   | PCLIP/63              |                          | 63                   |
| PCLIP/25              | PCLIP/25SS               | 25                   | PCLIP/75              |                          | 75                   |



Type PSA  
Proximity Switch Connectors

### Type PSA

**Proximity Switch Connectors** / Materials: Nickel Plated Brass

| Internal Thread | Part No.               |                        |
|-----------------|------------------------|------------------------|
|                 | To M16 Internal Thread | To PG9 Internal Thread |
| M12 x 1.0       | PSA16/M12              | PSA9/M12               |
| M18 x 1.0       | PSA16/M18              | PSA9/M18               |
| M30             | PSA16/M30              | PSA9/M30               |

# Metallic conduit systems

## Accessories - Type 90/45, TC & Female couplers



Type 90 Brass Elbow



Type 45 Brass Elbow

### Type 90/45

Brass Elbows / Materials: Nickel Plated Brass

| Metric External Male Thread | Internal Female Metric Thread | Part No. |          | NPT External Male Thread | Internal Female Metric Thread | Part No. |          | PG External Male Thread | Internal Female Metric Thread | Part No.  |           |
|-----------------------------|-------------------------------|----------|----------|--------------------------|-------------------------------|----------|----------|-------------------------|-------------------------------|-----------|-----------|
|                             |                               | Type 90° | Type 45° |                          |                               | Type 90° | Type 45° |                         |                               | Type 90°  | Type 45°  |
| M16                         | M16                           | B/M16/90 |          | 1/2"                     | M20                           | B/050/90 | B/050/45 | PG9                     | M16                           | B/PG9/90  |           |
| M16                         | M20                           |          | B/M16/45 | 3/4"                     | M25                           | B/075/90 | B/075/45 | PG11                    | M16                           | B/PG11/90 | B/PG11/45 |
| M20                         | M20                           | B/M20/90 | B/M20/45 | 1"                       | M32                           | B/100/90 | B/100/45 | PG13,5                  | M20                           | B/PG13/90 | B/PG13/45 |
| M25                         | M25                           | B/M25/90 | B/M25/45 |                          |                               |          |          | PG16                    | M20                           | B/PG16/90 | B/PG16/45 |
| M32                         | M32                           | B/M32/90 | B/M32/45 |                          |                               |          |          | PG21                    | M25                           | B/PG21/90 | B/PG21/45 |



Type TC  
Unef Converter

### Type TC

Unef Thread Converter with Two Internal Female Threads / Materials: Nickel Plated Brass

| Internal Thread | To M16 Internal Thread | To M20 Internal Thread | To M25 Internal Thread | To M32 Internal Thread |
|-----------------|------------------------|------------------------|------------------------|------------------------|
| 5/8" UNEF       | B/063U-M16/TC          |                        |                        |                        |
| 3/4" UNEF       | B/075U-M16/TC          | B/075U-M20/TC          |                        |                        |
| 7/8" UNEF       |                        | B/088U-M20/TC          |                        |                        |
| 1" UNEF         |                        | B/100U-M20/TC          | B/100U-M25/TC          |                        |
| 1 3/16" UNEF    |                        | B/119U-M20/TC          | B/119U-M25/TC          |                        |
| 1 5/16" UNEF    |                        | B/131U-M20/TC          |                        |                        |
| 1 7/16" UNEF    |                        |                        | B/144U-M25/TC          | B/144U-M32/TC          |



Female Coupler  
Brass Female Coupler

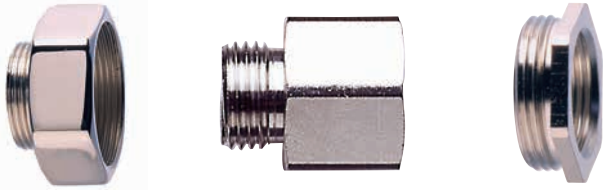
### Female Coupler

Brass Internal Female Coupler / Materials: Nickel Plated Brass

| Part No. | Metric Thread | Part No. | Metric Thread |
|----------|---------------|----------|---------------|
| B/M16/C  | M16           | B/M40/C  | M40           |
| B/M20/C  | M20           | B/M50/C  | M50           |
| B/M25/C  | M25           | B/M63/C  | M63           |
| B/M32/C  | M32           | B/M75/C  | M75           |

# Metallic conduit systems

## Accessories - Type E, R & TC



Type E, R & C  
Enlargers, Reducers & Converters

3

### Type E / Type R / Type C

Enlargers, Reducers & Converters / **Materials:** Nickel Plated Brass

| External Thread | To PG7<br>Internal Thread | To PG9<br>Internal Thread | To PG11<br>Internal Thread | To PG13,5<br>Internal Thread | To PG16<br>Internal Thread | To PG21<br>Internal Thread | To PG29<br>Internal Thread |
|-----------------|---------------------------|---------------------------|----------------------------|------------------------------|----------------------------|----------------------------|----------------------------|
| M16             | B/M16-PG7/TC              | B/M16-PG9/TC              | B/M16-PG11/TC              |                              |                            |                            |                            |
| M20             | B/M20-PG7/TC              | B/M20-PG9/TC              | B/M20-PG11/TC              | B/M20-PG13/TC                | B/M20-PG16/TC              | B/M20-PG21/TC              |                            |
| M25             |                           |                           |                            |                              |                            | B/M25-PG21/TC              |                            |
| M32             |                           |                           |                            |                              |                            |                            | B/M32-PG29/TC              |
| M40             |                           |                           |                            |                              |                            |                            |                            |
| M50             |                           |                           |                            |                              |                            |                            |                            |
| PG7             |                           | B/PG7-PG9/E               |                            |                              |                            |                            |                            |
| PG9             | B/PG9-PG7/R               |                           | B/PG9-PG11/E               | B/PG9-PG13/E                 |                            |                            |                            |
| PG11            | B/PG11-PG7/R              | B/PG11-PG9/R              |                            | B/PG11-PG13/E                | B/PG11-PG16/E              |                            |                            |
| PG13,5          | B/PG13-PG7/R              | B/PG13-PG9/R              | B/PG13-PG11/R              |                              | B/PG13-PG16/E              | B/PG13-PG21/E              |                            |
| PG16            | B/PG16-PG7/R              | B/PG16-PG9/R              | B/PG16-PG11/R              | B/PG16-PG13/R                |                            | B/PG16-PG21/E              |                            |
| PG21            |                           |                           | B/PG21-PG11/R              | B/PG21-PG13/R                | B/PG21-PG16/R              |                            | B/PG21-PG29/E              |
| PG29            |                           |                           |                            |                              | B/PG29-PG16/R              | B/PG29-PG21/R              |                            |
| PG36            |                           |                           |                            |                              |                            | B/PG36-PG21/R              | B/PG36-PG29/R              |
| PG42            |                           |                           |                            |                              |                            |                            | B/PG42-PG29/R              |
| PG48            |                           |                           |                            |                              |                            |                            |                            |

| External Thread | To M10<br>Internal Thread | To M12<br>Internal Thread | To M16<br>Internal Thread | To M20<br>Internal Thread | To M25<br>Internal Thread | To M32<br>Internal Thread | To M40<br>Internal Thread |
|-----------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| M16             |                           | B/M16-M12/R               |                           | B/M16-M20/E               |                           |                           |                           |
| M20             | B/M20-M10/R               | B/M20-M12/R               | B/M20-M16/R               |                           | B/M20-M25/E               |                           |                           |
| M25             |                           |                           |                           | B/M25-M20/R               |                           | B/M25-M32/E               |                           |
| M32             |                           |                           |                           |                           | B/M32-M25/R               |                           |                           |
| M40             |                           |                           |                           |                           |                           | B/M40-M32/R               |                           |
| M50             |                           |                           |                           |                           |                           |                           | B/M50-M40/R               |
| PG7             |                           |                           | B/PG7-M16/TC              | B/PG7-M20/TC              |                           |                           |                           |
| PG9             |                           |                           | B/PG9-M16/TC              | B/PG9-M20/TC              |                           |                           |                           |
| PG11            |                           |                           | B/PG11-M16/TC             | B/PG11-M20/TC             |                           |                           |                           |
| PG13,5          |                           |                           | B/PG13-M16/TC             | B/PG13-M20/TC             |                           |                           |                           |
| PG16            |                           |                           | B/PG16-M16/TC             | B/PG16-M20/TC             | B/PG16-M25/TC             |                           |                           |
| PG21            |                           |                           | B/PG21-M16/TC             | B/PG21-M20/TC             | B/PG21-M25/TC             | B/PG21-M32/TC             |                           |
| PG29            |                           |                           |                           | B/PG29-M20/TC             | B/PG29-M25/TC             | B/PG29-M32/TC             | B/PG29-M40/TC             |
| PG36            |                           |                           |                           |                           |                           | B/PG36-M32/TC             | B/PG36-M40/TC             |
| PG42            |                           |                           |                           |                           |                           |                           |                           |
| PG48            |                           |                           |                           |                           |                           |                           |                           |
| 1/2" NPT        |                           |                           | B/050-M16/TC              | B/050-M20/TC              |                           |                           |                           |







# Convenience packs

## Professional installer conduit systems

### Convenience Packs

|                              |     |
|------------------------------|-----|
| LFH Convenience              | 4/2 |
| Budget Convenience           | 4/2 |
| Retail / Office Convenience  | 4/2 |
| Liquid Resistant Convenience | 4/2 |

# Convenience packs

## Professional installer conduit systems

### LFH Convenience

**Convenience Pack** / Nylon Conduit with Adaptalok One-Piece, Fast Fit, Push & Twist Fittings

**Materials:** Polyamide Nylon 6 / **Colour:** Black (BL)



| Part No. | Type   | Conduit / Fitting Diameter | One-Piece Conduit Fittings | Locknuts |
|----------|--|----------------------------|----------------------------|----------|
| CP-AF20A | 10m Black Type PA LFH Nylon 6, 20mm diameter | 20mm                       | 10                         | 10       |
| CP-AF25A | 10m Black Type PA LFH Nylon 6, 25mm diameter | 25mm                       | 10                         | 10       |

4

### Budget Convenience

**Convenience Pack** / Type PP Polypropylene Conduit with One-Piece, Fast Fit, Push & Twist Fittings

**Materials:** PP Polypropylene / **Colour:** Grey (GR)



| Part No.     | Type   | Conduit / Fitting Diameter | One-Piece Conduit Fittings | Locknuts |
|--------------|--|----------------------------|----------------------------|----------|
| CP-AF20BS-PP | 10m Grey Type PP Polypropylene, 20mm diameter      | 20mm                       | 10                         | 10       |
| CP-AF25BS-PP | 10m Grey Type PP Polypropylene, 25mm diameter      | 25mm                       | 10                         | 10       |
| CP-AF20A-APP | Pack of 10 Grey Fittings (Straight), 20mm diameter | 20mm                       | 10                         |          |
| CP-AF25A-APP | Pack of 10 Grey Fittings (Straight), 25mm diameter | 25mm                       | 10                         |          |

### Retail / Office Convenience

**Convenience Pack** / Self-Extinguishing PVC Conduit & One-Piece Fittings & Locknuts

**Materials:** PVC Pliable / **Colour:** White (W), Grey (GR)



| Part No.  | Type                                  | Conduit / Fitting Diameter | One-Piece Conduit Fittings | Locknuts |
|-----------|---------------------------------------|----------------------------|----------------------------|----------|
| CP-AF20BS | 10m Grey Type KF PVCu, 20mm diameter  | 20mm                       | 10                         | 10       |
| CP-AF25BS | 10m Grey Type KF PVCu, 20mm diameter  | 25mm                       | 10                         | 10       |
| CP-KF20BS | 10m White Type KF PVCu, 25mm diameter | 20mm                       | 10                         | 10       |
| CP-KF25BS | 10m White Type KF PVCu, 25mm diameter | 25mm                       | 10                         | 10       |

### Liquid Resistant Convenience

**Convenience Pack** / Type SP Adaptasteel PVC Covered Steel Conduit with Fixed and Swivel Fittings

**Materials:** PVC Covered Galvanised Steel / **Colour:** Black (BL)



| Part No.     | Conduit Type                        | Conduit Diameter | Adaptasteel Fittings | Locknuts |
|--------------|-------------------------------------|------------------|----------------------|----------|
| CP-AF20SP-BS | 10m Black Type SP PVC Covered Steel | 20mm             | N/A                  | 10       |



**IP Rating**

IP66

IP66



**IP Rating**

IP54

IP54

IP54

IP54

**IP Rating**

IP66

IP66

IP66

IP66



**Fixed Male Fitting**

5

**Swivel Male Fitting**

5

**IP Rating**

IP54



# Cutting Tools

## Cutting tools for flexible conduit systems

### Cutting Tools

|          |     |
|----------|-----|
| Kwikcut  | 5/2 |
| Swingcut | 5/2 |
| Cut-Vice | 5/3 |
| Rotocut  | 5/3 |

# Cutting Tools

## Kwikcut & Swingcut

5



Kwikcut cutting tool

### Kwikcut

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#### Part No.

KWIKCUT

---

### Kwikcut

Kwikcut is the ideal cutting tool for non-metallic conduits (PA, PF, PI, PR, PADL, CP, KFL, KFS, KFM, PP, XF & PK) up to 32mm.

### Instructions

Place the conduit between the cutting blade and lower support, squeeze the handles and rotate the conduit for a clean, easy cut. Spare blades are available.



Swingcut cutting tool

### Swingcut

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#### Part No.

SWINGCUT

---

### Swingcut

Swingcut is a versatile vice and saw combination tool which facilitates a neat, square cut for liquid tight and pliable conduits between 10mm and 32mm. Six to one leverage advantage provides a strong cutting action.

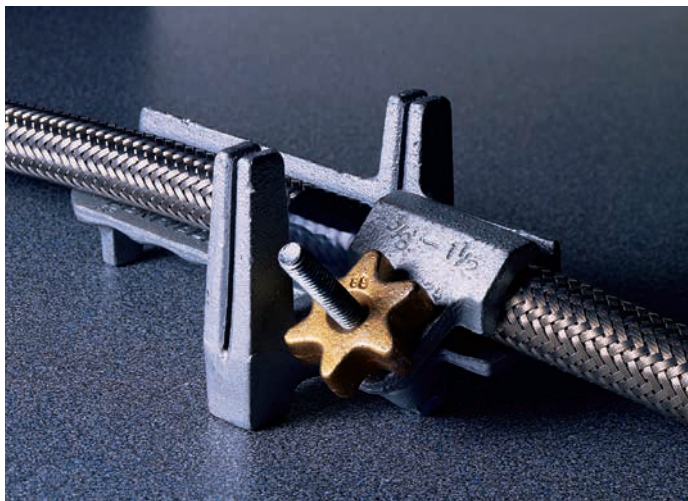
### Instructions

Place the conduit in the vice and secure. Move the operating handle backwards and forwards whilst applying increasing pressure to the supporting handle.

Hardened captive spring loaded retaining pins make blade replacement easy. Spare blades are available.

# Cutting Tools

## Cut-Vice & Rotocut



Cut-Vice cutting tool

### Cut-Vice

---

#### Part No.

CUT-VICE

---

### Cut-Vice

Cut-vice offers the ability to produce a clean cut for conduit sizes 16mm to 40mm.

### Instructions

Place the conduit along the vice body and tighten the clamp. Holding the conduit and integral handle together, insert a hacksaw blade into the guide and cut. For braided conduit, wrap adhesive tape around the cutting point to secure braid. Remove tape after cutting.



Rotocut cutting tool

### Rotocut

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#### Part No.

ROTOCUT

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### Rotocut

Rotocut offers a simple but effective method for cutting 20mm and 25mm S, SS, SP, LFH-SP and SN steel conduit types.

### Instructions

Adjust the clamping pin so that the conduit is just held in the recess. Squeeze the lever and body whilst rotating the cutting blade. When the blade appears on the inside of the conduit, release the pressure and remove the conduit. A simple twist will then separate the two parts. Where the conduit is covered, the covering can be cut prior to separation. Spare blades are available.





# Cable glands

## Accessories

### Cable Glands

|                          |     |
|--------------------------|-----|
| Introduction             | 6/3 |
| Standard - Cable gland   | 6/4 |
| Index A2P - Cable gland  | 6/5 |
| Euro Index - Cable gland | 6/5 |
| Index Claw - Cable gland | 6/6 |
| Index EMC - Cable gland  | 6/7 |
| Miniature - Cable gland  | 6/8 |
| Cord Grip Bush           | 6/8 |
| Clamping Bush            | 6/9 |
| Stopping Plugs           | 6/9 |



# Cable glands

## Introduction

### Range overview

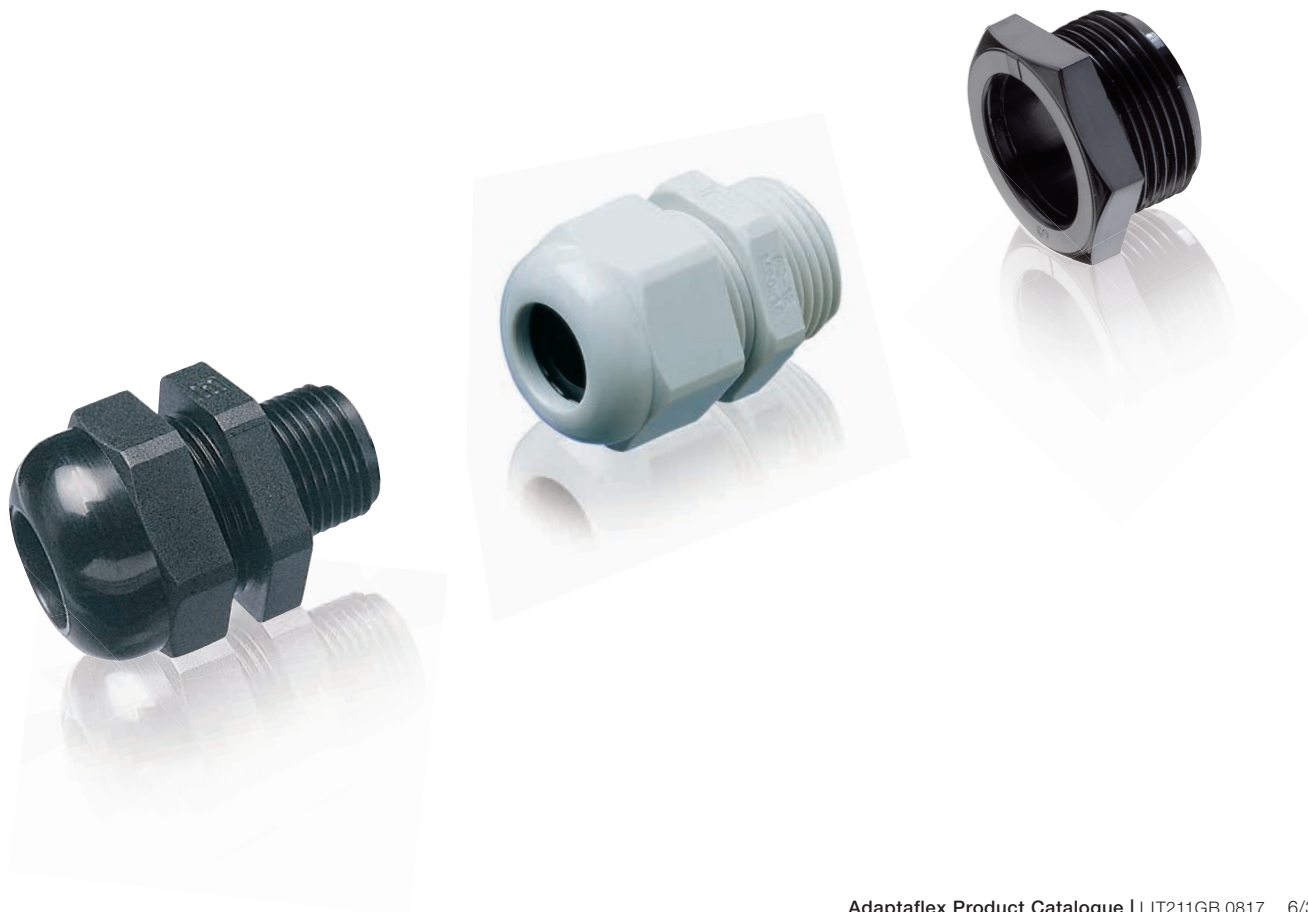
Incorporating high quality design and manufacture, products include cable glands and terminal blocks.

#### Cable Glands

Cable Glands provide sealing and retention for a wide range of cables for general indoor and outdoor applications.

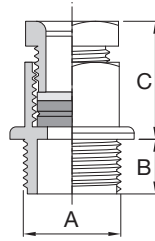
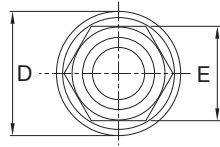


The Standard Range of “Hex” cable glands has been widely recognised as the UK “Industry Standard” for plastic cable glands for over 30 years offering excellent all-round performance. Euro Index is the next generation of Cable Glands with enhanced IP and load functionality. Also available is the Index Cable Gland range providing high strength and performance for a variety of applications. A range of accessories are available including seals, grommets, metric adaptors and reducers, locknuts and sealing washers.



# Cable glands

## Standard - cable gland



Standard Cable Gland

Dimensions

### Standard - Cable Gland

General Purpose IP66 Cable Gland / Colour Key: Red ● / White ○ / Black ● / Grey ●

Materials: Polyamide 6.6 with Nitrile Rubber Seal / Colour: Red RAL 3031 (R), White RAL 9010 (W), Grey RAL 7030 (G), Black RAL 9005 (B)

| Part No. | Metric Thread A | Thread Lengths B | Cable Max Diameter | Cable Min Diameter | Gland Depth C | Gland Diameter D | Across Flats Dimension E | Pack Quantity | Sealing Washer Part No. | Locknut Part No. | Colours |
|----------|-----------------|------------------|--------------------|--------------------|---------------|------------------|--------------------------|---------------|-------------------------|------------------|---------|
| 248      | M16             | 10mm             | 6mm                | 4mm                | 25.0mm        | 22.0mm           | 19mm                     | 100           | 96                      | 92               | ● ○ ● ● |
| 250      | M16             | 10mm             | 10mm               | 7mm                | 25.0mm        | 22.0mm           | 19mm                     | 100           | 96                      | 92               | ● ○ ● ● |
| 249      | M20             | 11mm             | 6mm                | 4mm                | 25.0mm        | 25.0mm           | 19mm                     | 100           | 97                      | 93               | ● ○ ● ● |
| 251      | M20             | 11mm             | 10mm               | 7mm                | 25.0mm        | 25.0mm           | 19mm                     | 100           | 97                      | 93               | ● ○ ● ● |
| 252      | M20             | 11mm             | 13mm               | 8mm                | 30.5mm        | 26.0mm           | 23mm                     | 100           | 97                      | 93               | ● ○ ● ● |
| 264      | M25             | 12mm             | 6mm                | 4mm                | 25.0mm        | 31.5mm           | 19mm                     | 100           | 98                      | 94               | ● ○ ● ● |
| 265      | M25             | 12mm             | 10mm               | 7mm                | 25.0mm        | 31.5mm           | 19mm                     | 100           | 98                      | 94               | ● ○ ● ● |
| 253      | M25             | 12mm             | 13mm               | 8mm                | 30.5mm        | 31.5mm           | 23mm                     | 100           | 98                      | 94               | ● ○ ● ● |
| 254      | M25             | 12mm             | 18mm               | 12mm               | 32.5mm        | 32.0mm           | 28mm                     | 100           | 98                      | 94               | ● ○ ● ● |
| 255      | M32             | 13mm             | 24mm               | 18mm               | 35.0mm        | 41.0mm           | 36mm                     | 100           | 99                      | 95               | ● ○ ● ● |
| 256      | M16             | 20mm             | 6mm                | 4mm                | 25.0mm        | 22.0mm           | 19mm                     | 100           | 96                      | 92               | ● ○ ● ● |
| 258      | M16             | 20mm             | 10mm               | 7mm                | 25.0mm        | 22.0mm           | 19mm                     | 100           | 96                      | 92               | ● ○ ● ● |
| 257      | M20             | 20mm             | 6mm                | 4mm                | 25.0mm        | 25.0mm           | 19mm                     | 100           | 97                      | 93               | ● ○ ● ● |
| 259      | M20             | 20mm             | 10mm               | 7mm                | 25.0mm        | 25.0mm           | 19mm                     | 100           | 97                      | 93               | ● ○ ● ● |
| 260      | M20             | 20mm             | 13mm               | 8mm                | 30.5mm        | 26.0mm           | 23mm                     | 100           | 97                      | 93               | ● ○ ● ● |
| 266      | M25             | 20mm             | 6mm                | 4mm                | 25.0mm        | 31.5mm           | 19mm                     | 100           | 98                      | 94               | ● ○ ● ● |
| 267      | M25             | 20mm             | 10mm               | 7mm                | 25.0mm        | 31.5mm           | 19mm                     | 100           | 98                      | 94               | ● ○ ● ● |
| 261      | M25             | 20mm             | 13mm               | 8mm                | 30.5mm        | 31.5mm           | 23mm                     | 100           | 98                      | 94               | ● ○ ● ● |
| 262      | M25             | 20mm             | 18mm               | 12mm               | 32.5mm        | 32.0mm           | 28mm                     | 100           | 98                      | 94               | ● ○ ● ● |
| 263      | M32             | 20mm             | 24mm               | 18mm               | 35.0mm        | 41.0mm           | 36mm                     | 100           | 99                      | 95               | ● ○ ● ● |

To order quote part number & colour, e.g. 248-W

Standard Cable gland gives good all-round performance and is the corner stone of Elkay's diverse cable gland range

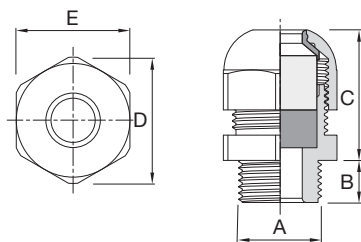
Cable Glands can be supplied assembled with Locknuts and Sealing Washers as required

# Cable glands

## Index A2P & Euro Index - cable glands



Index A2P Cable Gland



Dimensions

### Index A2P - Cable Gland

High Performance IP68 upto 15bar Cable Gland / **Materials:** Polyamide 6.6 with Nitrile Rubber Seal

**Colour:** Black RAL 9005 (B)

| Part No. | Metric Thread A | Thread Lengths B | Gland Length Compressed C | Cable Max Diameter | Cable Min Diameter | Gland Diameter D | Across Flats Dimension E | Pack Quantity | Sealing Washer | Locknut |
|----------|-----------------|------------------|---------------------------|--------------------|--------------------|------------------|--------------------------|---------------|----------------|---------|
| 200-8160 | M16             | 15mm             | 24mm                      | 8.0mm              | 4.0mm              | 26.0mm           | 24mm                     | 50            | 96             | 92-B    |
| 200-8240 | M20             | 15mm             | 24mm                      | 8.0mm              | 4.0mm              | 26.0mm           | 24mm                     | 50            | 97             | 93-B    |
| 200-8320 | M20             | 15mm             | 25mm                      | 10.0mm             | 7.5mm              | 30.0mm           | 27mm                     | 50            | 97             | 93-B    |
| 200-8400 | M20             | 15mm             | 26mm                      | 13.2mm             | 9.5mm              | 35.5mm           | 32mm                     | 50            | 97             | 93-B    |
| 200-8560 | M25             | 15mm             | 28mm                      | 18.0mm             | 13.0mm             | 40.0mm           | 36mm                     | 25            | 98             | 94-B    |
| 200-8640 | M32             | 15mm             | 31mm                      | 25.0mm             | 17.5mm             | 51.0mm           | 46mm                     | 10            | 99             | 95-B    |
| 200-8720 | M40             | 15mm             | 31mm                      | 31.5mm             | 24.5mm             | 61.0mm           | 55mm                     | 10            | 121            | 111-B   |
| 200-8800 | M50             | 15mm             | 31mm                      | 37.0mm             | 31.0mm             | 78.0mm           | 70mm                     | 5             | 122            | 112-B   |
| 200-8880 | M50             | 15mm             | 31mm                      | 43.0mm             | 36.5mm             | 78.0mm           | 70mm                     | 5             | 122            | 112-B   |



Euro Index - Cable Gland

### Euro Index - Cable Gland

IP68 Industrial 3 Part Plastic Cable Gland / **Materials:** Polyamide 6.6 with Nitrile Rubber Seal

**Colour:** Red RAL 3031 (R), White RAL 9010 (W), Grey RAL 7030 (G), Black RAL 9005 (B), Dark Grey RAL 7001 (DG)

| Part No. | Metric Thread A | Thread Lengths B | Cable Max Diameter | Cable Min Diameter | Gland Depth C | Gland Diameter D | Across Flats Dimension E | Pack Quantity |
|----------|-----------------|------------------|--------------------|--------------------|---------------|------------------|--------------------------|---------------|
| ESM12-10 | M12             | 8mm              | 6.5mm              | 2mm                | 23.0mm        | 19.0mm           | 17mm                     | 100           |
| ESM16-11 | M16             | 9mm              | 10.0mm             | 4mm                | 25.5mm        | 23.5mm           | 21mm                     | 100           |
| ESM20-12 | M20             | 10mm             | 12.0mm             | 6mm                | 27.0mm        | 27.0mm           | 24mm                     | 100           |
| ESM20-13 | M20             | 10mm             | 14.0mm             | 10mm               | 28.5mm        | 30.0mm           | 27mm                     | 100           |
| ESM25-14 | M25             | 11mm             | 18.0mm             | 13mm               | 29.0mm        | 33.0mm           | 30mm                     | 100           |
| ESM32-15 | M32             | 12mm             | 25.0mm             | 17mm               | 37.0mm        | 45.5mm           | 41mm                     | 50            |
| ESM40-16 | M40             | 13mm             | 32.0mm             | 24mm               | 42.0mm        | 55.5mm           | 50mm                     | 25            |

To order quote part number & colour, e.g. ESM12-10B-LN

### Approvals



### IP Rating

IP68 Yes (5 bar 30mins)

### Temperature Range

Static Applications: -20°C to +90°C

### Halogen Free

Yes

### Flammability

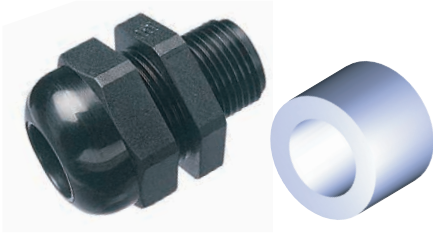
UL94 - V2 (Nylon material)

### Key Features

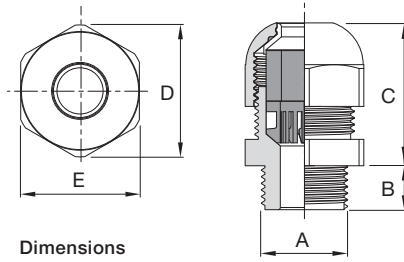
- Smaller working envelope on bulkhead or panel
- Integral claw design prevents cable twisting during installation
- Wide cable acceptance range for each gland size
- Designed to EN 50262:1999

# Cable glands

## Index Claw - cable gland



Index Claw Cable Gland



Dimensions

### Index Claw - Cable Gland

#### High Performance IP68 Cable Gland

**Materials:** Polyamide 6.6 with Nitrile Rubber Seal / **Colour:** Black RAL 9005 (B)

| Part No. | Metric Thread A | Thread Lengths B | Cable Max Diameter | Cable Min Diameter | Gland Depth C | Gland Diameter D | Across Flats Dimension E | Pack Quantity | Sealing Washer | Locknut Part No. |
|----------|-----------------|------------------|--------------------|--------------------|---------------|------------------|--------------------------|---------------|----------------|------------------|
| 211-9020 | M16             | 15mm             | 9mm                | 5mm                | 24mm          | 26mm             | 24mm                     | 50            | 96             | 92-B             |
| 211-9060 | M20             | 15mm             | 11mm               | 7mm                | 25mm          | 30mm             | 27mm                     | 50            | 97             | 93-B             |
| 211-9140 | M20             | 15mm             | 16mm               | 12mm               | 26mm          | 35mm             | 32mm                     | 50            | 97             | 93-B             |

The Index Claw Gland is suitable for many applications where cables are subject to high tensile loads. Typical applications would range from portable equipment such as generators to highly mobile factory equipment. The performance of the Index Claw Gland allows for IP68 rating at 5 bar and cable anchorage of 15.9kgs

#### Approvals



#### IP Rating

IP68  
Yes (5 bar 30min)

#### Temperature Range

Static Applications: -20°C to +90°C

#### Halogen Free

Yes

#### Flammability

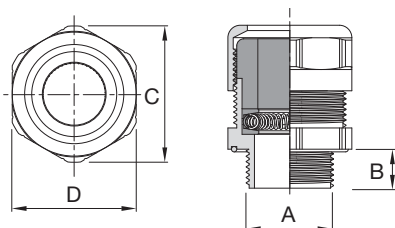
UL94 - V2 (Nylon material)

#### Key Features

- Ideal for general use
- IP68 Protection (5 bar 30mins)
- Metric

# Cable glands

## Index EMC Type A & B - cable glands



Index EMC Cable Gland

Dimensions

### Index EMC Type A - Cable Gland

High Performance IP68 Cable Gland / **Materials:** Nickel Plated Brass, Stainless Steel Spring, Rubber Seal (TPE-V)

| Part No. | Metric Thread A | Type | Thread Lengths B | Gland Diameter C | Across Flats Dimension D | Cable Max Diameter | Cable Min Diameter | Screen Dia. Max | Screen Dia. Min | Pack Quantity | Locknut Part No. |
|----------|-----------------|------|------------------|------------------|--------------------------|--------------------|--------------------|-----------------|-----------------|---------------|------------------|
| 260-1050 | M16             | A    | 10mm             | 26.7mm           | 24mm                     | 9mm                | 6mm                | 7.5mm           | 3.5mm           | 1             | 260-0500         |
| 260-1100 | M16             | A    | 10mm             | 26.7mm           | 24mm                     | 11mm               | 7mm                | 8.5mm           | 4mm             | 1             | 260-0500         |
| 260-1200 | M20             | A    | 10mm             | 26.7mm           | 24mm                     | 9mm                | 6mm                | 7.5mm           | 3mm             | 1             | 260-0600         |
| 260-1250 | M20             | A    | 10mm             | 26.7mm           | 24mm                     | 11mm               | 7mm                | 8.5mm           | 4mm             | 1             | 260-0600         |
| 260-1300 | M25             | A    | 11mm             | 33.5mm           | 30mm                     | 9.5mm              | 6mm                | 8.5mm           | 6mm             | 1             | 260-0650         |
| 260-1350 | M25             | A    | 11mm             | 33.5mm           | 30mm                     | 11mm               | 6mm                | 9.0mm           | 6mm             | 1             | 260-0650         |
| 260-1700 | M32             | A    | 13mm             | 43.5mm           | 40mm                     | 26mm               | 22mm               | 21.0mm          | 15mm            | 1             | 260-0700         |
| 260-1750 | M40             | A    | 14mm             | 54.0mm           | 50mm                     | 29mm               | 25mm               | 25.0mm          | 18mm            | 1             | 260-0750         |
| 260-1900 | M50             | A    | 15mm             | 65.0mm           | 60mm                     | 41mm               | 37mm               | 33.0mm          | 29mm            | 1             | 260-0800         |

6

### Index EMC Type B - Cable Gland

High Performance IP68 Cable Gland / **Materials:** Nickel Plated Brass, Stainless Steel Spring, Rubber Seal (TPE-V)

| Part No. | Metric Thread A | Type | Thread Lengths B | Gland Diameter C | Across Flats Dimension D | Cable Max Diameter | Cable Min Diameter | Screen Dia. Max | Screen Dia. Min | Pack Quantity | Locknut Part No. |
|----------|-----------------|------|------------------|------------------|--------------------------|--------------------|--------------------|-----------------|-----------------|---------------|------------------|
| 260-1000 | M16             | B    | 10mm             | 26.7mm           | 24mm                     | 6mm                | 4mm                | 6.0mm           | 3.0mm           | 1             | 260-0500         |
| 260-1150 | M20             | B    | 10mm             | 26.7mm           | 24mm                     | 6mm                | 4mm                | 6.0mm           | 3.0mm           | 1             | 260-0600         |
| 260-1400 | M25             | B    | 11mm             | 33.5mm           | 30mm                     | 11mm               | 6mm                | 10.5mm          | 6.0mm           | 1             | 260-0650         |
| 260-1450 | M25             | B    | 11mm             | 33.5mm           | 30mm                     | 14mm               | 10mm               | 13.0mm          | 8.0mm           | 1             | 260-0650         |
| 260-1550 | M25             | B    | 11mm             | 33.5mm           | 30mm                     | 18mm               | 14mm               | 17.5mm          | 12.5mm          | 1             | 260-0650         |
| 260-1650 | M32             | A/B  | 13mm             | 43.5mm           | 40mm                     | 23mm               | 19mm               | 21.0mm          | 15.0mm          | 1             | 260-0700         |
| 260-1800 | M40             | B    | 14mm             | 54.0mm           | 50mm                     | 32mm               | 29mm               | 30.5mm          | 24.0mm          | 1             | 260-0750         |

The INDEX Uni Iris range of cable glands are for use with screened cable and have been designed to connect the screen of the cable to the enclosure screening system. This is achieved by the use of two tapered rings applying force onto a continuous stainless steel spring washer pressing against the screen, ensuring positive contact. Assembly is simple, the screen is exposed, the spring and washers are slipped in place and then the gland can be tightened.

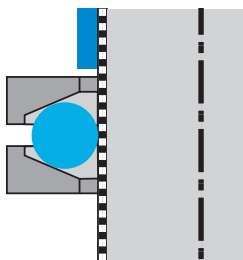
| Approvals  | IP Rating | Temperature Range                    | Halogen Free |
|--|-----------|--------------------------------------|--------------|
|  | IP68      | Static Applications: -40°C to +135°C | Yes          |

#### Key Features

- Screen continues into enclosure
- IP68 Protection at 10 bar for 30 minutes
- Metric
- For use with systems conforming to EN50 082-1/2

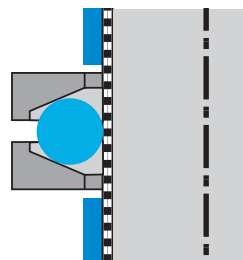
#### Type A

- Stripped Cable Sheath - Allowing the outer sheath to be completely stripped from the cable



#### Type B

- Continuous Cable Sheath - Allowing for a ring of outer sheath only to be stripped

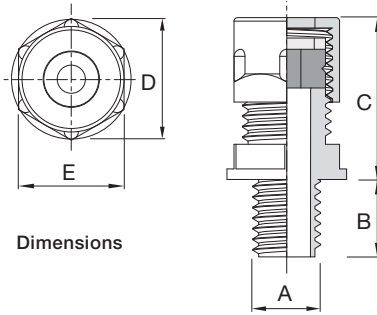


# Cable glands

## Miniature gland & Cord grip bush



Miniature Gland



Dimensions

### Miniature Gland

#### Small Cable Size IP66 Cable Gland

**Materials:** Polyamide 6.6 with Nitrile Rubber Seal / **Colour:** Black RAL 9005 (B), White RAL 9010 (W) - Black Part Numbers Listed

| Part No. | Metric Thread A | Thread Lengths B | Cable Max Diameter | Cable Min Diameter | Gland Depth C | Gland Diameter D | Across Flats Dimension E | Pack Quantity | Sealing Washer | Locknut Part No. |
|----------|-----------------|------------------|--------------------|--------------------|---------------|------------------|--------------------------|---------------|----------------|------------------|
| 238      | M10             | 8mm              | 5mm                | 2mm                | 21mm          | 17mm             | 15mm                     | 100           | 68             | 78-B             |
| 240      | M10             | 8mm              | 7mm                | 5mm                | 21mm          | 17mm             | 15mm                     | 100           | 68             | 78-B             |
| 244      | M10             | 20mm             | 5mm                | 2mm                | 21mm          | 17mm             | 15mm                     | 100           | 68             | 78-B             |
| 246      | M10             | 20mm             | 7mm                | 5mm                | 21mm          | 17mm             | 15mm                     | 100           | 68             | 78-B             |
| 239      | M13             | 8mm              | 5mm                | 2mm                | 21mm          | 17mm             | 15mm                     | 100           | 69             | 79-B             |
| 241      | M13             | 8mm              | 7mm                | 5mm                | 21mm          | 17mm             | 15mm                     | 100           | 69             | 79-B             |
| 245      | M13             | 20mm             | 5mm                | 2mm                | 21mm          | 17mm             | 15mm                     | 100           | 69             | 79-B             |
| 247      | M13             | 20mm             | 7mm                | 5mm                | 21mm          | 17mm             | 15mm                     | 100           | 69             | 79-B             |

Miniature cable glands are ideal for small cable sizes and offer IP66 protection. To order quote part number & colour, e.g. 238-W

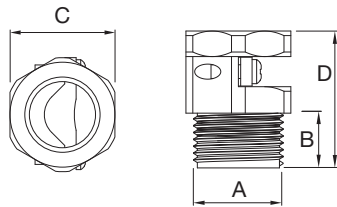
Miniature cable glands are available with either long or short threads. Locknuts and sealing washers are available as separate items

#### Approvals

| IP Rating | Temperature Range                   | Halogen Free | Flammability               |
|-----------|-------------------------------------|--------------|----------------------------|
| IP66      | Static Applications: -20°C to +90°C | Yes          | UL94 - V2 (Nylon material) |



Cord Grip Bush



Dimensions

### Cord Grip Bush

#### Cord Grip Entry Bush

**Materials:** Polyamide 6.6 / **Colour:** Black RAL 9005 (B)

| Part No. | Metric Thread A | Thread Lengths B | Cable Max Diameter | Cable Min Diameter | Across Flats Dimension C | Overall Length D | Pack Quantity | Sealing Washer | Locknut Part No. |
|----------|-----------------|------------------|--------------------|--------------------|--------------------------|------------------|---------------|----------------|------------------|
| 743-B    | M16             | 9mm              | 11mm               | 3.5mm              | 19mm                     | 23.5mm           | 100           | 96             | 92-B             |
| 744-B    | M20             | 12mm             | 14mm               | 4.0mm              | 23mm                     | 29.5mm           | 100           | 97             | 93-B             |
| 745-B    | M25             | 12mm             | 18mm               | 8.0mm              | 27mm                     | 29.5mm           | 100           | 98             | 94-B             |

#### Approvals

| IP Rating | Temperature Range                   | Halogen Free | Flammability               |
|-----------|-------------------------------------|--------------|----------------------------|
| IP66      | Static Applications: -20°C to +90°C | Yes          | UL94 - V2 (Nylon material) |



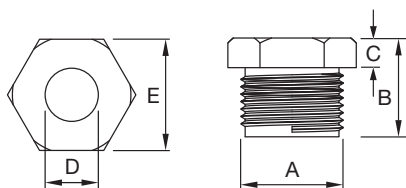


# Cable glands

## Clamping bush & Stopping plugs



Clamping Bush



Dimensions

### Clamping Bush

Smooth Cable Guide

Materials: Polyamide 6.6 / Colour: Black RAL 9005 (B)

| Part No. | Metric Thread A | Plug Length B | Hexagon Thickness C | Hole Diameter D | Across Flats Dimension E | Pack Quantity |
|----------|-----------------|---------------|---------------------|-----------------|--------------------------|---------------|
| 46-B     | M16             | 14mm          | 5mm                 | 10.5mm          | 19mm                     | 100           |
| 47-B     | M20             | 18mm          | 6mm                 | 13.0mm          | 23mm                     | 100           |
| 48-B     | M25             | 18mm          | 6mm                 | 19.0mm          | 28mm                     | 100           |

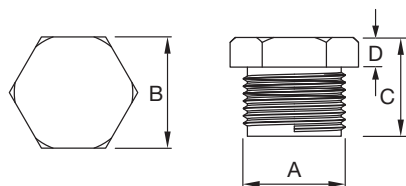
### Approvals



| IP Rating | Temperature Range                   | Halogen Free | Flammability               |
|-----------|-------------------------------------|--------------|----------------------------|
| IP66      | Static Applications: -10°C to +90°C | Yes          | UL94 - V2 (Nylon material) |



Stopping Plug



Dimensions

### Stopping Plug

General Purpose IP66 Stopping Plug

Materials: Polyamide 6.6 / Colour: Black RAL 9005 (B)

| Part No. | Metric Thread A | Across Flats Dimension B | Plug Length C | Head Depth D | Pack Quantity |
|----------|-----------------|--------------------------|---------------|--------------|---------------|
| 64-B     | M16             | 19mm                     | 14mm          | 5mm          | 100           |
| 65-B     | M20             | 23mm                     | 18mm          | 6mm          | 100           |
| 66-B     | M25             | 28mm                     | 18mm          | 7mm          | 100           |
| 67-B     | M32             | 36mm                     | 19mm          | 3mm          | 100           |

Adaptaflex range of Stopping Plugs are ideal for sealing cable entries

### Approvals



| IP Rating | Temperature Range                   | Halogen Free | Flammability               |
|-----------|-------------------------------------|--------------|----------------------------|
| IP66      | Static Applications: -10°C to +90°C | Yes          | UL94 - V2 (Nylon material) |



# Aquasafe

## Waterproof plugs & connectors

### Aquasafe

|                    |     |
|--------------------|-----|
| Introduction       | 7/3 |
| In-Line Aqua-safe  | 7/4 |
| Bulkhead Aqua-safe | 7/4 |
| Sealing Caps       | 7/5 |



# Aquasafe

## Introduction

### Range overview - In-Line (IP68 - 16A)

The in-line range is typically used where temporary connections are required for power. The range offers a variety of cable acceptances sizes, whilst maintaining a compact working envelope.

Aquasafe is suitable for temporary immersion to IP68 2 Bar for 30 minutes (Note: Not submersible). The housings are defined as either Female or Male. The Female housing has the collar moulding, and the Male housing is smaller in diameter, and fits inside the opposite housing. The inner connectors are defined as either a Plug or Socket according to the metal inserts.

### Bulkheads (IP68 - 16A)

If power is being distributed and controlled from a fixed installation, it may be more appropriate to mount products into an enclosure or electrical equipment. As an alternative to the in-line connector, Adaptaflex offer complimentary mounting options including:

- **Chassis / panel mounting** (screwed)  
Supplied with M25 Locknut and Sealing Washer as standard, the thread has flats to orientate the housing during installation
- **Bulkhead / surface mounting** (flanged)  
Flanged to suit surface mounting where space is restricted behind the application

Each bulkhead / panel mounted housing can be used in conjunction with the appropriate mating in-line connector.



### Sealing Caps (IP68)

Sealing caps can be fitted to each individual housing to maintain protection when the connectors are separated. This ensures electrical safety at all times, even when the connectors are not in use. The caps are operated in exactly the same manner as the connectors, by the latch mechanism held within the collar. A strap is also provided to retain the sealing cap onto the housings, for light static applications.



# Aquasafe

## In-Line Aqua-safe



In-Line Aqua-Safe

### In-Line Aqua-safe

#### IP68 - 16A Standard In-Line Product

**Materials:** Plug & Socket Connector: Polycarbonate, Outer Housing: Glass Filled Nylon with Nitrile Rubber Seal / **Colour:** Black

| Part No.          | Description                           | Connector Details    | Cable Range | Pack Quantity |
|-------------------|---------------------------------------|----------------------|-------------|---------------|
| 185-9000          | In-Line Waterproof Connector Assembly | 3 Pole Plug & Socket | 5-9mm       | 1             |
| 185-9100          | In-Line Waterproof Connector Assembly | 3 Pole Plug & Socket | 8-13mm      | 1             |
| 185-9200          | In-Line Waterproof Connector Assembly | 3 Pole Plug & Socket | 12-16mm     | 1             |
| 185-0A1011-P030-1 | In-Line Waterproof Female Housing     | 3 Pole Plug          | 5-9mm       | 1             |
| 185-0A1021-P030-1 | In-Line Waterproof Female Housing     | 3 Pole Plug          | 8-13mm      | 1             |
| 185-0A1031-P030-1 | In-Line Waterproof Female Housing     | 3 Pole Plug          | 12-16mm     | 1             |
| 185-1A1011-S030-1 | In-Line Waterproof Male Housing       | 3 Pole Socket        | 5-9mm       | 1             |
| 185-1A1021-S030-1 | In-Line Waterproof Male Housing       | 3 Pole Socket        | 8-13mm      | 1             |
| 185-1A1031-S030-1 | In-Line Waterproof Male Housing       | 3 Pole Socket        | 12-16mm     | 1             |

#### Approvals



#### IP Rating

IP68 Yes (upto 2 bar 30min)

Note: Not submersible

#### Temperature Range

Static Applications: -25°C to +80°C

#### Halogen Free

Yes

#### Flammability

UL94 - V2



Bulkhead Aqua-safe  
Bulkhead Male Screwed



Bulkhead Aqua-safe  
Bulkhead Female Screwed



Bulkhead Aqua-safe  
Bulkhead Male Flanged



Bulkhead Aqua-safe  
Bulkhead Female Flanged

### Bulkhead Aqua-safe

#### IP68 - 16A Standard Bulkhead Product

**Materials:** Plug & Socket Connector: Polycarbonate, Outer Housing: Glass Filled Nylon with Nitrile Rubber Seal / **Colour:** Black

| Part No.          | Description                       | Connector Details     | Pack Quantity |
|-------------------|-----------------------------------|-----------------------|---------------|
| 185-0B1000-P030-1 | Aqua-safe Bulkhead Female Housing | Flanged 3 Pole Plug   | 1             |
| 185-0E1000-P030-1 | Aqua-safe Bulkhead Female Housing | Screwed 3 Pole Plug   | 1             |
| 185-1B1000-S030-1 | Aqua-safe Bulkhead Male Housing   | Flanged 3 Pole Socket | 1             |
| 185-1E1000-S030-1 | Aqua-safe Bulkhead Male Housing   | Screwed 3 Pole Socket | 1             |

#### Approvals



#### IP Rating

IP68 Yes (upto 2 bar 30min)

Note: Not submersible

#### Temperature Range

Static Applications: -25°C to +80°C

#### Halogen Free

Yes

#### Flammability

UL94 - V2

# Aquasafe Sealing Caps



Female Sealing Cap



Male Sealing Cap

## Sealing Caps

### IP68 - 16A Sealing Caps

Colour: Black

| Part No. | Description   | Pack Quantity |
|----------|---|---------------|
| 185-6100 | Male Sealing Cap with strap to suit all Female Housings | 100           |
| 185-6200 | Female Sealing Cap with strap to suit all Male Housings | 100           |







# Technical section

## Product characteristics, classification & performance

### Technical Section

|                                      |     |
|--------------------------------------|-----|
| Thread Data                          | 8/2 |
| EMI Screen System & Fire Performance | 8/3 |
| IP Ratings & Fitting Characteristics | 8/4 |
| Chemical Resistance                  | 8/6 |
| Cable Carrying Capacity (Wire Fill)  | 8/8 |
| IEC61386 Classifications             | 8/9 |

# Technical section

## Thread data

### Metric Thread Data

Standard Thread Conforming to EN60423 & BS3643

| Thread Size | External Thread Outside Diameter | Internal Thread Inside Diameter | Pitch |
|-------------|----------------------------------|---------------------------------|-------|
| M8          | 8mm                              | 6.9mm                           | 1mm   |
| M10         | 10mm                             | 8.9mm                           | 1mm   |
| M12         | 12mm                             | 10.9mm                          | 1mm   |
| M12         | 12mm                             | 10.4mm                          | 1.5mm |
| M16         | 16mm                             | 14.4mm                          | 1.5mm |
| M18         | 18mm                             | 16.9mm                          | 1mm   |
| M20         | 20mm                             | 18.4mm                          | 1.5mm |
| M25         | 25mm                             | 23.4mm                          | 1.5mm |
| M30         | 30mm                             | 28.4mm                          | 1.5mm |
| M32         | 32mm                             | 30.4mm                          | 1.5mm |
| M40         | 40mm                             | 38.4mm                          | 1.5mm |
| M50         | 50mm                             | 48.4mm                          | 1.5mm |
| M63         | 63mm                             | 61.4mm                          | 1.5mm |
| M75         | 75mm                             | 73.4mm                          | 1.5mm |

NOTE: Dimensions are nominal

### PG Thread Data

German Standard Thread Conforming to DIN40430

| Thread Size | External Thread Outside Diameter | Internal Thread Inside Diameter | Pitch  |
|-------------|----------------------------------|---------------------------------|--------|
| PG7         | 12.5mm                           | 11.3mm                          | 1.27mm |
| PG9         | 15.2mm                           | 13.9mm                          | 1.41mm |
| PG11        | 18.6mm                           | 17.3mm                          | 1.41mm |
| PG13,5      | 20.4mm                           | 19.1mm                          | 1.41mm |
| PG16        | 22.5mm                           | 21.2mm                          | 1.41mm |
| PG21        | 28.3mm                           | 26.8mm                          | 1.59mm |
| PG29        | 37mm                             | 35.5mm                          | 1.59mm |
| PG36        | 47mm                             | 45.5mm                          | 1.59mm |
| PG42        | 54mm                             | 52.5mm                          | 1.59mm |
| PG48        | 59.3mm                           | 57.8mm                          | 1.59mm |

NOTE: Dimensions are nominal

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### PF Thread Data

Japanese Conduit Thread Conforming to JIS B 0202

| Thread Size | External Thread Outside Diameter | Internal Thread Inside Diameter | Pitch  |
|-------------|----------------------------------|---------------------------------|--------|
| 1/4"        | 13mm                             |                                 | 1.34mm |
| 3/8"        | 16.7mm                           | 15.0mm                          | 1.34mm |
| 1/2"        | 21.0mm                           | 18.6mm                          | 1.81mm |
| 3/4"        | 26.4mm                           | 24.1mm                          | 1.81mm |
| 1"          | 33.3mm                           | 30.3mm                          | 2.31mm |
| 1 1/4"      | 41.9mm                           | 39.0mm                          | 2.31mm |
| 1 1/2"      | 47.8mm                           | 44.8mm                          | 2.31mm |
| 2"          | 59.6mm                           | 56.7mm                          | 2.31mm |

NOTE: Dimensions are nominal

### NPT Thread Data

US Taper Seal Pipe Thread Conforming to ANSI/ASME B1.20.1 - 1983

| Thread Size | External Thread Outside Diameter | Pitch  |
|-------------|----------------------------------|--------|
| 3/8"        | 16.7mm                           | 1.14mm |
| 1/2"        | 21.0mm                           | 1.81mm |
| 3/4"        | 26.4mm                           | 1.81mm |
| 1"          | 33.3mm                           | 2.21mm |
| 1 1/4"      | 41.9mm                           | 2.21mm |
| 1 1/2"      | 47.8mm                           | 2.21mm |
| 2"          | 59.6mm                           | 2.21mm |

NOTE: Dimensions are nominal

### UNEF / UNS Thread Data

American Unified Thread conforming to BS1580

| Thread Size | External Thread Outside Diameter | Internal Thread Inside Diameter | Pitch  |
|-------------|----------------------------------|---------------------------------|--------|
| 5/8"        | 15.9mm                           | 14.7mm                          | 1.06mm |
| 3/4"        | 19.1mm                           | 17.7mm                          | 1.27mm |
| 13/16"      | 20.6mm                           | 19.3mm                          | 1.27mm |
| 7/8"        | 22.2mm                           | 20.9mm                          | 1.27mm |
| 15/16"      | 23.8mm                           | 22.4mm                          | 1.27mm |
| 1"          | 25.4mm                           | 24.0mm                          | 1.27mm |
| 1 1/8"      | 28.6mm                           | 27.0mm                          | 1.41mm |
| 1 3/16"     | 30.2mm                           | 28.6mm                          | 1.41mm |
| 1 1/4"      | 31.8mm                           | 30.2mm                          | 1.41mm |
| 1 5/16"     | 33.3mm                           | 31.8mm                          | 1.41mm |
| 1 3/8"      | 34.9mm                           | 33.4mm                          | 1.41mm |
| 1 7/16"     | 36.5mm                           | 35.0mm                          | 1.41mm |
| 1 3/4"      | 44.5mm                           | 42.9mm                          | 1.41mm |
| 2"          | 50.8mm                           | 49.3mm                          | 1.59mm |
| 2 1/4"      | 57.2mm                           | 55.4mm                          | 1.59mm |

NOTE: Dimensions are nominal

# Technical section

## EMI screen system & fire performance

### EMI Screen System

For applications where electromagnetic interference is of particular concern we have classified suitable conduit systems by means of symbols. These are related in an ascending scale of performance from Standard EMI Screen (products featuring a stainless steel overbraid) through to High EMI Screen (products featuring a tinned copper overbraid). Contact us for full details.



**Standard EMI Screen**  
Screening Level  
40db @ 100MHz



**Enhanced EMI Screen**  
Screening Level  
60db @ 100MHz



**High EMI Screen**  
Screening Level  
75db @ 100MHz

### Fire Performance

Adaptaflex has introduced a set of symbols to help the user specify conduit systems for installations where fire performance is of particular concern.

Each symbol encompasses a range of properties relevant to the high specification materials used in the construction of the conduit.

They are in an ascending scale of performance from Low Fire Hazard (LFH) featuring zero halogen through to Super Low Fire Hazard (SLFH) featuring zero nitrogen. In addition, Inherent Low Fire Hazard systems (ILFH) are classified as being all metal systems.



**Low Fire Hazard**



**Enhanced Low Fire Hazard**



**Super Low Fire Hazard**



**Inherent Low Fire Hazard**

| Property                             | LFH              | ELFH              | SLFH            | ILFH                        |
|--------------------------------------|------------------|-------------------|-----------------|-----------------------------|
| Oxygen Index ISO4589                 | 31% ≥ OI ≥ 28%   | OI ≥ 32%          | OI ≥ 32%        | Inherent Low Fire Hazard    |
| BS6853 Smoke Density 3m <sup>3</sup> | 0.02 ≥ A0 ≥ 0.03 | 0.005 ≥ A0 ≥ 0.02 | 0.02 A0 ≤ 0.005 | i.e. Type S, SS, SPB        |
| Zero Halogen                         | •                | •                 | •               | STC, SSB & SSBGS            |
| Zero Phosphorus                      | •                | •                 | •               | Metallic Conduit & Fittings |
| Zero Sulphur                         | •                | •                 | •               |                             |
| London Underground                   | Concession       | Approved          | Approved        |                             |
| Toxicity Index NES713 Issue 3        | 5.0 ≥ TI ≥ 6.0   | 0.5 ≥ TI ≥ 5.0    | TI ≤ 0.5        |                             |
| NFF16-102                            | I3F2             | I2F2              | I2F1            |                             |

# Technical section


## IP ratings & fitting characteristics

### IP Ratings

IP suitability ratings are a system for classifying the degree of protection provided by enclosures of electrical equipment.











#### Protection against Solid Bodies

Degree of protection for persons against access to hazardous parts inside the enclosure and/or against the ingress of solid foreign objects.

|  |          |  |
|--|----------|--|
|    | <b>0</b> | No protection  |
|    | <b>1</b> | Objects greater than 50mm, accidental touch by hands           |
|   | <b>2</b> | Objects greater than 12mm, accidental touch by fingers         |
|  | <b>3</b> | Objects greater than 2.5mm, e.g. tools/wires                   |
|  | <b>4</b> | Objects greater than 1mm, e.g. tools/wires/small wires         |
|  | <b>5</b> | Protected against dust - limited ingress (no harmful deposits) |
|  | <b>6</b> | Totally protected against dust (Dust-tight)                    |

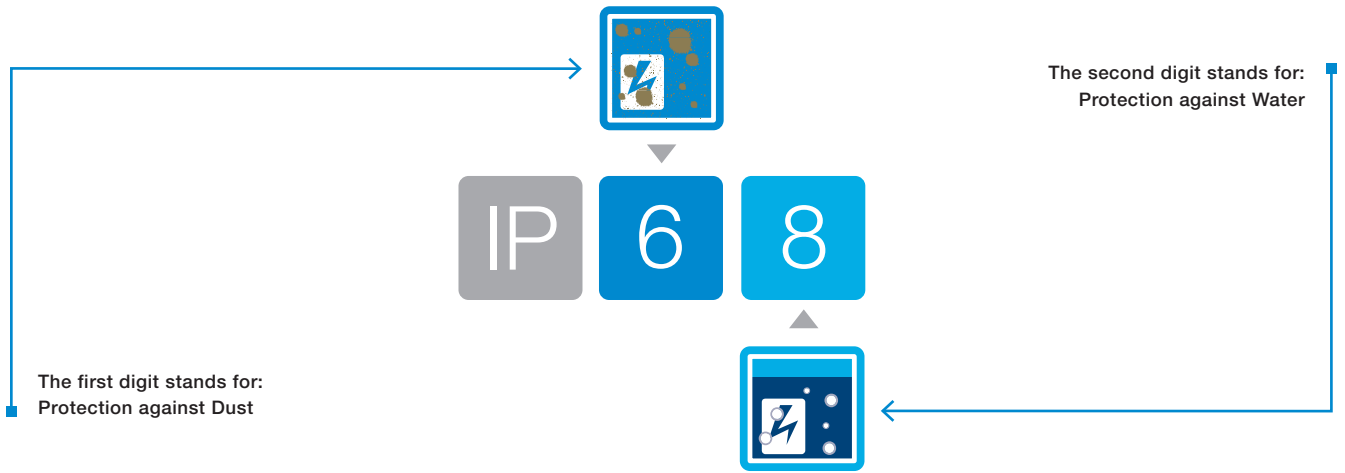
#### Protection against Water

Degree of protection of equipment inside enclosures against damage from the ingress of water.

|   |          |   |
|---|----------|---|
|    | <b>0</b> | No protection   |
|    | <b>1</b> | Protected against vertically falling drops of water   |
|   | <b>2</b> | Protected against direct sprays of water up to 15° from vertical  |
|  | <b>3</b> | Protected against sprays of water to 60° from vertical  |
|  | <b>4</b> | Protected against water sprayed from all directions - limited ingress permitted   |
|  | <b>5</b> | Protected against low pressure jets of water from all directions - limited ingress permitted                            |
|  | <b>6</b> | Protected against strong pressure jets of water, heavy seas - limited ingress permitted                                 |
|  | <b>7</b> | Protection against the effects of immersion between 15cm - 1m   |
|  | <b>8</b> | Protection against long periods of immersion under a quoted pressure, e.g. 2 bar at 24 hours                            |
|  | <b>9</b> | IP69 Automotive standard DIN40050 and signifies resistance to high pressure jets of water (up to 80 bar) from any angle |

### IP Ratings

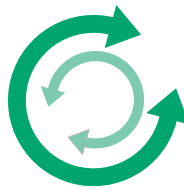
The higher the number, the greater the degree of protection; they apply ONLY to properly installed equipment.  
The numerals stand for the following:



### Fitting Characteristics



Fitting swivels independently of conduit for installation purpose but is not suitable as a rotating joint in constantly moving applications.



Fitting rotates independently of the conduit to act as a rotating joint within constantly moving applications.

# Technical section

## Chemical resistance

Chemical Resistance Comparison Table

| Products                | PA, PR<br>PADL, SN | PI, PF | GP | KF, RF, SP | PP | PK | Fittings<br>PA66 | Elastomer<br>Seal<br>ATS | S<br>(including<br>braid) | SS<br>(including<br>braid) | LFH-SP | SPL, SPUL | SPLHC | TC braid | Fittings nickel<br>plated brass |
|-------------------------|--------------------|--------|----|------------|----|----|------------------|--------------------------|---------------------------|----------------------------|--------|-----------|-------|----------|---------------------------------|
| Chemical                |                    |        |    |            |    |    |                  |                          |                           |                            |        |           |       |          |                                 |
| Astm no.1               | ●                  | ●      | ●  | ■          | ●  | ●  | ●                | ●                        | ●                         | ●                          | ■      | ●         | ●     | ●        | ●                               |
| Astm no.2               | ●                  | ●      | ●  | ■          | ●  | ●  | ●                | ●                        | ●                         | ●                          | ▲      | ●         | ▲     | ●        | ●                               |
| Astm no.3               | ●                  | ●      | ●  | ■          | ▲  | ●  | ●                | ●                        | ●                         | ●                          | ▲      | ●         | ▲     | ●        | ●                               |
| Acetic Acid (10%)       | ▲                  | ▲      | ●  | ▲          | ●  | ●  | ▲                | ▲                        | ■                         | ●                          | ●      | ●         | ●     | ▲        | ●                               |
| Acetone                 | ●                  | ●      | ▲  | ■          | ●  | ●  | ●                | ▲                        | ●                         | ●                          | ■      | ■         | ●     | ●        | ●                               |
| Aluminium Chloride      | ▲                  | ●      | ■  | ▲          | ●  | ●  | ▲                | ●                        | ■                         | ▲                          | ●      | ●         | ●     | ▲        | NT                              |
| Aniline                 | ▲                  | ■      | ■  | ■          | ●  | ▲  | ▲                | ■                        | ●                         | ●                          | ▲      | ■         | ●     | ●        | ●                               |
| Benzaldehyde            | ▲                  | ▲      | ▲  | ■          | ▲  | ●  | ▲                | ▲                        | ●                         | ●                          | ■      | ■         | ▲     | ●        | ●                               |
| Benzene                 | ●                  | ●      | ▲  | ■          | ▲  | ●  | ●                | ▲                        | ●                         | ●                          | ■      | ■         | ■     | ●        | ●                               |
| Carbon tetrachloride    | ●                  | ●      | ■  | ▲          | ▲  | ●  | ●                | ▲                        | ●                         | ●                          | ■      | ▲         | ▲     | ●        | ●                               |
| Chlorine Water          | ■                  | ■      | ▲  | ■          | ▲  | ■  | ■                | ■                        | ■                         | ■                          | ▲      | ■         | ●     | ■        | ●                               |
| Chloroform              | ■                  | ■      | ■  | ■          | ▲  | ●  | ■                | ▲                        | ●                         | ●                          | ■      | ■         | ▲     | ●        | ●                               |
| Citric acid             | ●                  | ●      | ●  | ●          | ●  | ●  | ●                | ●                        | ●                         | ●                          | ●      | ●         | ●     | ●        | ●                               |
| Copper sulphate         | ▲                  | ●      | ●  | ●          | ●  | ●  | ▲                | ●                        | ●                         | ●                          | ●      | ●         | ●     | ●        | ●                               |
| Cresol                  | ■                  | ■      | NT | ▲          | ●  | ▲  | ■                | ■                        | ●                         | ●                          | ■      | ▲         | ●     | ▲        | ●                               |
| Diesel oil              | ●                  | ●      | ●  | ▲          | ●  | ●  | ●                | ●                        | ●                         | ●                          | ▲      | ●         | ●     | ●        | ●                               |
| Diethylamine            | ●                  | ▲      | ▲  | ▲          | ●  | ●  | ●                | ■                        | ●                         | ●                          | ●      | ▲         | ●     | ●        | ●                               |
| Ethanol                 | ●                  | ▲      | ●  | ■          | ●  | ●  | ●                | ▲                        | ●                         | ●                          | ▲      | ■         | ●     | ●        | ●                               |
| Ether                   | ●                  | ●      | NT | ▲          | ●  | ●  | ●                | ●                        | ●                         | ●                          | ■      | ▲         | ●     | ●        | ●                               |
| Ethylamine              | ●                  | ▲      | NT | ▲          | ●  | ●  | ●                | ■                        | ●                         | ●                          | ▲      | ▲         | ▲     | ●        | ●                               |
| Ethylene Glycol         | ●                  | ●      | ●  | ▲          | ●  | ●  | ●                | ●                        | ■                         | ●                          | ●      | ▲         | ●     | ●        | ●                               |
| Ethyl ethanoate         | ▲                  | ●      | ●  | ■          | ●  | ●  | ▲                | ■                        | ●                         | ●                          | ■      | ■         | ●     | ●        | ●                               |
| Freon 32                | ●                  | ●      | ●  | ▲          | ●  | ●  | ●                | ▲                        | ■                         | ●                          | ■      | ▲         | ■     | ●        | ●                               |
| Hydrchloric acid (10%)  | ■                  | ▲      | ▲  | ●          | ●  | ●  | ■                | ▲                        | ■                         | ■                          | ■      | ●         | ●     | ■        | ●                               |
| Hydrchloric acid (36%)  | ■                  | ■      | ■  | ▲          | ●  | ●  | ■                | ■                        | ■                         | ■                          | ■      | ●         | ●     | ■        | ●                               |
| Hydrogen peroxide (35%) | ▲                  | ▲      | ▲  | ●          | ●  | ●  | ▲                | ■                        | ■                         | ●                          | ▲      | ●         | ▲     | ●        | ●                               |
| Hydrogen peroxide (87%) | ■                  | ■      | ■  | ●          | ▲  | ●  | ■                | ■                        | ■                         | ●                          | ■      | ●         | ■     | ▲        | ●                               |
| Lactic acid             | ▲                  | ●      | ■  | ▲          | ●  | ●  | ▲                | ●                        | ■                         | ●                          | ●      | ▲         | ▲     | ●        | ●                               |
| Lubricating oil         | ●                  | ●      | ●  | ▲          | ●  | ●  | ●                | ●                        | ●                         | ●                          | ▲      | ●         | ▲     | ●        | ●                               |
| Methanol                | ▲                  | ▲      | ●  | ■          | ●  | ●  | ▲                | ▲                        | ●                         | ●                          | ▲      | ■         | ●     | ●        | ●                               |
| Methyl bromide          | ■                  | ■      | NT | ■          | ▲  | ●  | ■                | ■                        | ●                         | ●                          | ■      | ■         | ▲     | ●        | ●                               |
| MEK                     | ●                  | ●      | ▲  | ■          | ●  | ●  | ●                | ▲                        | ●                         | ●                          | ■      | ■         | ●     | ●        | ●                               |
| Nitric acid (10%)       | ■                  | ■      | ▲  | ●          | ●  | ●  | ■                | ■                        | ■                         | ■                          | ●      | ●         | ●     | ■        | ●                               |
| Nitric acid (70%)       | ■                  | ■      | ■  | ●          | ●  | ■  | ■                | ■                        | ■                         | ■                          | ■      | ●         | ●     | ■        | ●                               |
| Oxalic acid             | ▲                  | ●      | ▲  | ▲          | ●  | ●  | ▲                | ▲                        | ■                         | ●                          | ●      | ●         | ●     | ▲        | ●                               |
| Ozone (gas)             | ■                  | ■      | NT | ▲          | ▲  | ●  | ■                | ●                        | ■                         | ●                          | ●      | ▲         | ▲     | ●        | ●                               |
| Paraffin oil            | ●                  | ●      | ●  | ▲          | ●  | ●  | ●                | ●                        | ●                         | ●                          | ▲      | ●         | ●     | ●        | ●                               |
| Petrol                  | ●                  | ●      | ●  | ■          | ●  | ●  | ●                | ●                        | ●                         | ●                          | ■      | ●         | ●     | ●        | ●                               |
| Phenol                  | ■                  | ■      | ■  | ▲          | ●  | ▲  | ■                | ▲                        | ●                         | ●                          | ■      | ▲         | ●     | ▲        | ●                               |

## Chemical Resistance Comparison Table

| Products               | PA, PR<br>PAUL, SN | PI, PF | GP | KF, RF, SP | PP | PK | Fittings<br>PA66 | Elastomer<br>Seal<br>ATS | S<br>(including<br>braid) | SS<br>(including<br>braid) | LPH-SP | SP, SPUL | SPLHC | TC braid | Fittings nickel<br>plated brass |
|------------------------|--------------------|--------|----|------------|----|----|------------------|--------------------------|---------------------------|----------------------------|--------|----------|-------|----------|---------------------------------|
| Chemical               |                    |        |    |            |    |    |                  |                          |                           |                            |        |          |       |          |                                 |
| Sea water              | ●                  | ●      | ●  | ●          | ●  | ●  | ●                | ●                        | ■                         | ●                          | ●      | ●        | ●     | ●        | ▲                               |
| Silver nitrate         | ●                  | ●      | NT | ●          | ●  | ●  | ●                | ●                        | ■                         | ●                          | ●      | ●        | ●     | ●        | ●                               |
| Skydrol                | ●                  | ●      | ●  | ■          | ●  | ●  | ●                | ▲                        | ●                         | ●                          | ■      | ■        | ●     | ●        | ●                               |
| Sodium chloride        | ●                  | ●      | ●  | ●          | ●  | ●  | ●                | ●                        | ■                         | ●                          | ●      | ●        | ●     | ●        | ▲                               |
| Sodium hydroxide (10%) | ●                  | ●      | ●  | ●          | ●  | ●  | ●                | ●                        | ■                         | ●                          | ●      | ●        | ●     | ●        | ●                               |
| Sodium hydroxide (60%) | ●                  | ▲      | ■  | ▲          | ●  | ●  | ●                | ▲                        | ■                         | ▲                          | ●      | ●        | ●     | ●        | ●                               |
| Sulphur dioxide (gas)  | ■                  | ■      | ▲  | ●          | ●  | ●  | ■                | ■                        | ■                         | ■                          | ▲      | ●        | ●     | ▲        | ■                               |
| Sulphuric acid (10%)   | ■                  | ▲      | ●  | ●          | ●  | ●  | ■                | ▲                        | ■                         | ■                          | ●      | ●        | ●     | ■        | ■                               |
| Sulphuric acid (70%)   | ■                  | ■      | ■  | ●          | ●  | ■  | ■                | ■                        | ■                         | ■                          | ▲      | ●        | ●     | ■        | ■                               |
| Toluene                | ●                  | ●      | ▲  | ■          | ●  | ●  | ●                | ■                        | ●                         | ●                          | ▲      | ■        | ■     | ●        | ●                               |
| Transformer oil        | ●                  | ●      | ●  | ▲          | ●  | ●  | ●                | ●                        | ●                         | ●                          | ▲      | ●        | ▲     | ●        | ●                               |
| 1,1,1-Trichloroethane  | ●                  | ●      | ▲  | ■          | ▲  | ●  | ●                | ▲                        | ■                         | ●                          | ▲      | ■        | ▲     | ●        | ●                               |
| Trichloroethylene      | ▲                  | ■      | ■  | ■          | ▲  | ●  | ▲                | ▲                        | ■                         | ●                          | ▲      | ■        | ■     | ●        | ●                               |
| Turpentine             | ●                  | ●      | ●  | ▲          | ■  | ●  | ●                | ▲                        | ●                         | ●                          | ■      | ▲        | ■     | ●        | ●                               |
| Vegetable oil          | ●                  | ●      | ●  | ▲          | ●  | ●  | ●                | ●                        | ●                         | ●                          | ▲      | ●        | ●     | ●        | ●                               |
| Vinyl acetate          | ▲                  | ●      | NT | ■          | ●  | ●  | ▲                | ■                        | ■                         | ●                          | ■      | ■        | ●     | ●        | ●                               |
| Water                  | ●                  | ●      | ●  | ●          | ●  | ●  | ●                | ●                        | ■                         | ●                          | ●      | ●        | ●     | ●        | ●                               |
| White spirit           | ●                  | ●      | NT | ▲          | ●  | ●  | ●                | ▲                        | ●                         | ●                          | ■      | ▲        | ▲     | ●        | ●                               |
| Zinc chloride          | ■                  | ●      | ▲  | ●          | ●  | ●  | ■                | ●                        | ■                         | ●                          | ●      | ●        | ●     | ▲        | ●                               |

### Note

The information above is given as a guide only and is based on published technical data and experience.

The chemical resistance of the above products is dependant on factors such as chemical exposure, concentration of the chemical and temperature. The above chemicals are valid for a temperature of 23°C.

Use of the above table is at the users own discretion and risk. Those using it must satisfy themselves that their application presents no health and safety risks.

The end user should assess compatibility with their application and contact Adaptaflex for further information.

### Key

- Suitable: ●
- Limited suitability: ▲
- Unsuitable: ■
- Not tested: NT

# Technical section

## Cable carrying capacity (wire fill)

### Introduction

UK Wiring regulations BS7671 recommend that the total cross sectional area of the sum of individual cables shall not exceed 40% of the cross sectional area of the conduit based on using 3 or more cables. The tables below enable you to calculate the number of conductors that can be run within a piece of flexible conduit.

### Instructions

- **Step 1:** Establish the number and size of each wire to be run in the conduit
- **Step 2:** Look on the Cross Sectional Area (CSA) chart (table 1), look up the CSA taken up by each of the wires from STEP 1
- **Step 3:** Add all the CSA values together (Total CSA)
- **Step 4:** Look on the conduit fill value chart (table 2).
- Choose a conduit with a 40% fill value higher than the total CSA from STEP 3

**Table 1 - Cross Sectional Area (CSA) Chart**

| Nominal Conductor Size | Number of Wires |       |       |       |       |      |       |      |
|------------------------|-----------------|-------|-------|-------|-------|------|-------|------|
|                        | 1               | 2     | 3     | 4     | 5     | 10   | 15    | 20   |
| 1mm                    | 6.6             | 13.2  | 19.8  | 26.4  | 33    | 66   | 99    | 132  |
| 1.5mm                  | 7.6             | 15.2  | 22.8  | 30.4  | 38    | 76   | 114   | 152  |
| 2.5mm                  | 9.6             | 19.2  | 28.8  | 38.4  | 48    | 96   | 144   | 192  |
| 4mm                    | 14.5            | 29    | 43.5  | 58    | 72.5  | 145  | 217.5 | 290  |
| 6mm                    | 18.8            | 37.6  | 56.4  | 75.2  | 94    | 188  | 282   | 376  |
| 10mm                   | 29.3            | 58.6  | 87.9  | 117.2 | 146.5 | 293  | 439.5 | 586  |
| 16mm                   | 40.2            | 80.4  | 120.6 | 160.8 | 201   | 402  | 603   | 804  |
| 25mm                   | 63.8            | 127.6 | 191.4 | 255.2 | 319   | 638  | 957   | 1276 |
| 35mm                   | 83.5            | 167   | 250.5 | 334   | 417.5 | 835  | 1252  | 1670 |
| 50mm                   | 113             | 226   | 339   | 452   | 565   | 1130 | 1695  | 2260 |
| 70mm                   | 149             | 298   | 447   | 596   | 745   | 1490 | 2235  |      |
| 95mm                   | 204             | 408   | 612   | 816   | 1020  | 2040 |       |      |

**Table 2 - Wire Fill of Plastic & Metallic Conduit**

| Nominal Diameter | Plastic Conduit |          | Metallic Conduit |          |
|------------------|-----------------|----------|------------------|----------|
|                  | 100% Fill       | 40% Fill | 100% Fill        | 40% Fill |
| 10mm             | 33.2            | 13       | 25.5             | 10.2     |
| 13mm             | 72.4            | 29       | 58.1             | 23.2     |
| 16mm             | 109.4           | 44       | 83.3             | 33.3     |
| 18mm             | 158.4           | 63       | 160.6            | 64.2     |
| 21mm             | 213.8           | 86       | 243.3            | 97.3     |
| 28mm             | 369.8           | 148      | 452.4            | 181      |
| 34mm             | 602.6           | 241      | 855.3            | 342.1    |
| 42mm             | 973.1           | 390      | 1164.2           | 465.7    |
| 54mm             | 1698.2          | 680      | 1963.5           | 785.4    |
| 80mm             | 3520            | 1410     | 3473.2           | 1389.3   |
| 106mm            | 6500            | 2600     |                  |          |

### Example - What size of conduit to use?

- **Step 1:** 4 x 2.5mm conductors, 2 x 10mm conductors and 3 x 50mm conductors
- **Step 2:** The CSA of Four 2.5mm conductors is 38.4, Two 10mm conductors is 58.6, Three 50mm conductors is 339
- **Step 3:** Total of these groups is 38.4 + 58.6 + 339 = 436
- **Step 4:** Using Table 2 the conduit is either 54mm (680) Plastic or 50mm (465.7) Metallic

- **Note:** 42mm Plastic is 390 which is smaller than 436 therefore not recommended

The information given above relates to PA - Standard weight conduit and Adaptalok fittings or SPL with M-Type fittings. It is given in good faith and should be used only as a guide in conjunction with the relevant wiring regulations.



# Technical section

## IEC61386 classifications

Non-metallic - IEC61386 Classifications Table

| Products                    | With Fitting | Compression Strength | Impact Strength | Minimum Temperature | Maximum Temperature | Bending Properties | Electrical Properties | IP Rating Solids | IP Rating Water | Corrosion Resistance | Tensile Strength | Non-Flame Propogating | Suspended Load Capacity |
|-----------------------------|--------------|----------------------|-----------------|---------------------|---------------------|--------------------|-----------------------|------------------|-----------------|----------------------|------------------|-----------------------|-------------------------|
| <b>Non-metallic Conduit</b> |              |                      |                 |                     |                     |                    |                       |                  |                 |                      |                  |                       |                         |
| PA LIGHT                    | AT           | 2                    | 4               | 2                   | 4                   | 4                  | 0                     | 6                | 7               |                      | 1                | 1                     | 0                       |
| PA STANDARD                 | AT           | 2                    | 4               | 2                   | 4                   | 4                  | 0                     | 6                | 7               |                      | 1                | 1                     | 0                       |
| PA HEAVY                    | AT           | 2                    | 4               | 2                   | 4                   | 4                  | 0                     | 6                | 7               |                      | 2                | 1                     | 0                       |
| PF STANDARD                 | AT           | 1                    | 3               | 5                   | 4                   | 4                  | 0                     | 6                | 7               |                      | 1                | 1                     | 0                       |
| PF HEAVY                    | AT           | 2                    | 4               | 5                   | 4                   | 4                  | 0                     | 6                | 7               |                      | 1                | 1                     | 0                       |
| PI STANDARD                 | AT           | 1                    | 3               | 5                   | 4                   | 4                  | 0                     | 6                | 7               |                      | 1                | 1                     | 0                       |
| PI HEAVY                    | AT           | 2                    | 4               | 5                   | 4                   | 4                  | 0                     | 6                | 7               |                      | 1                | 1                     | 0                       |
| PR                          | AT           | 2                    | 4               | 2                   | 4                   | 4                  | 0                     | 6                | 7               |                      | 1                | 1                     | 0                       |
| CP                          | AT           | 1                    | 4               | 4                   | 5                   | 4                  | 0                     | 6                | 7               |                      | 1                | 1                     | 0                       |
| KF LIGHT                    | KC           | 2                    | 2               | 2                   | 1                   | 2                  | 2                     | 4                | 0               |                      | 1                | 1                     | 0                       |
| KF STANDARD                 | KC           | 2                    | 3               | 2                   | 1                   | 2                  | 2                     | 4                | 0               |                      | 2                | 1                     | 0                       |
| KF MEDIUM                   | KC           | 3                    | 3               | 2                   | 1                   | 2                  | 2                     | 4                | 0               |                      | 1                | 1                     | 0                       |
| PK                          | PK           | 2                    | 4               | 5                   | 6                   | 4                  | 2                     | 6                | 7               |                      | 1                | 1                     | 0                       |
| PKTC                        | PB           | 2                    | 4               | 5                   | 6                   | 4                  | 3                     | 6                | 7               |                      | 3                | 1                     | 0                       |
| PKSS                        | PB           | 2                    | 4               | 5                   | 6                   | 4                  | 3                     | 6                | 7               |                      | 3                | 1                     | 0                       |
| PRTC                        | PB           | 2                    | 4               | 2                   | 4                   | 4                  | 1                     | 6                | 7               |                      | 3                | 1                     | 0                       |
| PRSS                        | PB           | 2                    | 4               | 2                   | 4                   | 4                  | 1                     | 6                | 7               |                      | 3                | 1                     | 0                       |
| PRSS                        | PB           | 2                    | 4               | 2                   | 4                   | 4                  | 1                     | 6                | 7               |                      | 3                | 1                     | 0                       |

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Metallic - IEC61386 Classifications Table

| Metallic Conduit |        |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------|--------|---|---|---|---|---|---|---|---|---|---|---|---|
| S                | S      | 4 | 4 | 5 | 6 | 4 | 0 | 4 | 0 | 1 | 4 | 1 | 5 |
| SS               | S      | 4 | 4 | 5 | 6 | 4 | 0 | 4 | 0 | 4 | 4 | 1 | 5 |
| SP               | SP(M)  | 4 | 4 | 2 | 2 | 4 | 2 | 6 | 5 |   | 4 | 1 | 5 |
| SN               | SP(M)  | 4 | 4 | 4 | 5 | 4 | 0 | 6 | 5 |   | 4 | 1 | 5 |
| LFH-SP           | SP(M)  | 4 | 4 | 2 | 3 | 4 | 0 | 6 | 5 |   | 4 | 1 | 5 |
| SPL AL           | SPL(M) | 4 | 4 | 2 | 3 | 4 | 2 | 6 | 7 |   | 4 | 1 | 5 |
| SPLHC            | SPL(M) | 4 | 4 | 5 | 5 | 4 | 0 | 6 | 7 |   | 4 | 1 | 5 |
| SB               | SB     | 4 | 5 | 5 | 6 | 4 | 1 | 4 | 0 | 1 | 4 | 1 | 5 |
| STC              | SB     | 4 | 4 | 5 | 6 | 4 | 1 | 4 | 0 | 1 | 4 | 1 | 5 |
| SSB              | SB     | 4 | 4 | 5 | 6 | 4 | 1 | 4 | 0 | 4 | 4 | 1 | 5 |
| SSBGS            | SB     | 4 | 4 | 5 | 6 | 4 | 1 | 4 | 0 | 1 | 4 | 1 | 5 |
| SPB              | SPB    | 4 | 4 | 2 | 2 | 4 | 3 | 5 | 4 |   | 4 | 1 | 5 |
| SPTC             | SPB    | 4 | 4 | 2 | 2 | 4 | 3 | 5 | 4 |   | 4 | 1 | 5 |
| SPLHCB           | SPLB   | 4 | 4 | 5 | 5 | 4 | 1 | 6 | 7 |   | 5 | 1 | 5 |

Performance Classification Key

| Classification Level | (N)  | (J) | (°C) | (°C) |                        |              |   |   |        | (N)          | (N) | (N)          |
|----------------------|------|-----|------|------|------------------------|--------------|---|---|--------|--------------|-----|--------------|
| 0                    |      |     |      |      |                        | Not declared |   | 0 | N/A    | Not declared |     | Not declared |
| 1                    | 125  | 0.5 | 5    | 60   | Rigid                  | Conductor    |   | 1 | Low    | 100          | 4   | 20           |
| 2                    | 320  | 1   | -5   | 90   | Pliable                | Insulator    |   | 2 | Medium | 250          | 7   | 30           |
| 3                    | 750  | 2   | -15  | 105  | Pliable/<br>Semi Rigid | Con/Ins      | 3 | 3 | Med-Hi | 500          |     | 150          |
| 4                    | 1250 | 6   | -25  | 120  | Flexible               |              | 4 | 4 | High   | 1000         |     | 450          |
| 5                    | 4000 | 20  | -45  | 150  |                        |              | 5 | 5 |        | 2500         |     | 850          |
| 6                    |      |     |      | 250  |                        |              | 6 | 6 |        |              |     |              |
| 7                    |      |     |      |      |                        |              |   | 7 |        |              |     |              |

# Index

## Order code classification

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| 185-0A1021-P030-1 | 7TCA296210R0003 | 7/4  | ACB54                | 7TCA296000R0082 | 2/57 | AL13RT               | 7TCA296050R0016 | 2/58 |
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| 185-1A1011-S030-1 | 7TCA296210R0012 | 7/4  | ACG21                | 7TCA296000R0093 | 2/57 | AL16/A/U/BL          | 7TCA296000R0332 | 2/17 |
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| AL34/PG29/SFA/BL     | 7TCA296000R1029 | 2/19 | AL54/M50/C90/BL    | 7TCA296000R1219 | 2/13 | AR21/M20/C90/BL   | 7TCA296000R1422 | 2/48 |
| AL34/U100/45/000620  | 7TCA296000R1031 | 2/23 | AL54/M50/CS90/BL   | 7TCA296000R1222 | 2/18 | AR21/PG16/A/BL    | 7TCA296000R1429 | 2/48 |
| AL34/U100/A/000620   | 7TCA296000R1032 | 2/21 | AL54/M50/CS90/BL   | 7TCA296000R1222 | 2/18 | AR21X3/T/BL       | 7TCA296000R1433 | 2/49 |
| AL34/U100/C90/000620 | 7TCA296000R1033 | 2/22 | AL54/M50/CSF90/BL  | 7TCA296000R1226 | 2/20 | AR28/M25/A/BL     | 7TCA296000R1437 | 2/48 |
| AL34/U119/45/000620  | 7TCA296000R1034 | 2/23 | AL54/M50/CSF90/BL  | 7TCA296000R1226 | 2/20 | AR28/M25/C90/BL   | 7TCA296000R1439 | 2/48 |
| AL34/U119/A/000620   | 7TCA296000R1035 | 2/21 | AL54/M50/S45/BL    | 7TCA296000R1227 | 2/19 | AR28/PG21/A/BL    | 7TCA296000R1446 | 2/48 |
| AL34/U119/C90/000620 | 7TCA296000R1036 | 2/22 | AL54/M50/SA/BL     | 7TCA296000R1229 | 2/18 | AR28X3/T/BL       | 7TCA296000R1451 | 2/49 |
| AL34/U144/45/000620  | 7TCA296000R1037 | 2/23 | AL54/M50/SA/BL     | 7TCA296000R1229 | 2/18 | AR34/M32/A/BL     | 7TCA296000R1455 | 2/48 |
| AL34/U144/A/000620   | 7TCA296000R1038 | 2/21 | AL54/M50/SF45/BL   | 7TCA296000R1231 | 2/20 | AR34/M32/C90/BL   | 7TCA296000R1457 | 2/48 |
| AL34/U144/C90/000620 | 7TCA296000R1040 | 2/22 | AL54/M50/SF45/BL   | 7TCA296000R1231 | 2/20 | AR34/PG29/A/BL    | 7TCA296000R1462 | 2/48 |
| AL34/U175/45/000620  | 7TCA296000R1042 | 2/23 | AL54/M50/SFA/BL    | 7TCA296000R1232 | 2/19 | AR34X3/T/BL       | 7TCA296000R1468 | 2/49 |
| AL34/U175/A/000620   | 7TCA296000R1043 | 2/21 | AL54/M50/SFA/BL    | 7TCA296000R1232 | 2/19 | AR42/M40/A/BL     | 7TCA296000R1470 | 2/48 |
| AL34/U175/C90/000620 | 7TCA296000R1044 | 2/22 | AL54/M63/45/BL     | 7TCA296000R1234 | 2/14 | AR42/M40/C90/BL   | 7TCA296000R1471 | 2/48 |
| AL34/U200/45/000620  | 7TCA296000R1045 | 2/23 | AL54/M63/A/BL      | 7TCA296000R1236 | 2/12 | AR42/PG36/A/BL    | 7TCA296000R1472 | 2/48 |
| AL34/U200/A/000620   | 7TCA296000R1046 | 2/21 | AL54/M63/C90/BL    | 7TCA296000R1242 | 2/13 | AR54/M50/A/BL     | 7TCA296000R1475 | 2/48 |
| AL34/U200/C90/000620 | 7TCA296000R1047 | 2/22 | AL54/M63/CS90/BL   | 7TCA296000R1245 | 2/18 | AR54/M50/C90/BL   | 7TCA296000R1476 | 2/48 |
| AL34RT               | 7TCA296050R0027 | 2/58 | AL54/M63/CS90/BL   | 7TCA296000R1245 | 2/18 | AR54/PG48/A/BL    | 7TCA296000R1477 | 2/48 |
| AL42/125/A/BL        | 7TCA296000R1056 | 2/12 | AL54/M63/S45/BL    | 7TCA296000R1247 | 2/19 | ASC21/M20/A/BL    | 7TCA296000R1483 | 2/45 |
| AL42/125/C90/BL      | 7TCA296000R1061 | 2/13 | AL54/M63/S45/BL    | 7TCA296000R1247 | 2/19 | ASC21/M20/C90/BL  | 7TCA296000R1486 | 2/45 |
| AL42/M40/A/BL        | 7TCA296000R1081 | 2/12 | AL54/M63/SA/BL     | 7TCA296000R1249 | 2/18 | ASC21/PG16/A/BL   | 7TCA296000R1495 | 2/45 |
| AL42/M40/C90/BL      | 7TCA296000R1087 | 2/13 | AL54/M63/SA/BL     | 7TCA296000R1249 | 2/18 | ASC21/PG16/C90/BL | 7TCA296000R1497 | 2/45 |
| AL42/M40/CS90/BL     | 7TCA296000R1091 | 2/18 | AL54/PF150/A/BL    | 7TCA296000R1256 | 2/12 | ASC21X3/T/BL      | 7TCA296000R1498 | 2/46 |
| AL42/M40/CSF90/BL    | 7TCA296000R1094 | 2/20 | AL54/PF150/C90/BL  | 7TCA296000R1260 | 2/13 | ASC28/M25/A/BL    | 7TCA296000R1502 | 2/45 |
| AL42/M40/S45/BL      | 7TCA296000R1096 | 2/19 | AL54/PF200/A/BL    | 7TCA296000R1265 | 2/12 | ASC28/M25/C90/BL  | 7TCA296000R1504 | 2/45 |
| AL42/M40/SA/BL       | 7TCA296000R1098 | 2/18 | AL54/PF200/C90/BL  | 7TCA296000R1268 | 2/13 | ASC28/PG21/A/BL   | 7TCA296000R1514 | 2/45 |
| AL42/M40/SF45/BL     | 7TCA296000R1102 | 2/20 | AL54/PG48/45/BL    | 7TCA296000R1272 | 2/14 | ASC28/PG21/C90/BL | 7TCA296000R1517 | 2/45 |
| AL42/M40/SFA/BL      | 7TCA296000R1103 | 2/19 | AL54/PG48/A/BL     | 7TCA296000R1278 | 2/12 | ASC28X3/T/BL      | 7TCA296000R1519 | 2/46 |
| AL42/M50/A/BL        | 7TCA296000R1106 | 2/12 | AL54/PG48/C90/BL   | 7TCA296000R1286 | 2/13 | ASC34/FL/90/BL    | 7TCA296000R1521 | 2/62 |
| AL42/PF125/A/BL      | 7TCA296000R1111 | 2/12 | AL54/PG48/CS90/BL  | 7TCA296000R1291 | 2/18 | ASC34/M32/A/BL    | 7TCA296000R1522 | 2/45 |
| AL42/PF125/C90/BL    | 7TCA296000R1113 | 2/13 | AL54/PG48/CSF90/BL | 7TCA296000R1293 | 2/20 | ASC34/M32/C90/BL  | 7TCA296000R1525 | 2/45 |
| AL42/PG36/45/BL      | 7TCA296000R1117 | 2/14 | AL54/PG48/S45/BL   | 7TCA296000R1295 | 2/19 | ASC34/PG29/A/BL   | 7TCA296000R1535 | 2/45 |
| AL42/PG36/A/BL       | 7TCA296000R1122 | 2/12 | AL54/PG48/SA/BL    | 7TCA296000R1296 | 2/18 | ASC34/PG29/C90/BL | 7TCA296000R1538 | 2/45 |
| AL42/PG36/C90/BL     | 7TCA296000R1130 | 2/13 | AL54/PG48/SF45/BL  | 7TCA296000R1297 | 2/20 | ASC34X3/T/BL      | 7TCA296000R1540 | 2/46 |
| AL42/PG36/CS90/BL    | 7TCA296000R1136 | 2/18 | AL54/PG48/SFA/BL   | 7TCA296000R1298 | 2/19 | ASC42/FL/90/BL    | 7TCA296000R1542 | 2/62 |
| AL42/PG36/CSF90/BL   | 7TCA296000R1139 | 2/20 | AL54RT             | 7TCA296050R0033 | 2/58 | ASC42/M40/A/BL    | 7TCA296000R1545 | 2/45 |
| AL42/PG36/S45/BL     | 7TCA296000R1142 | 2/19 | ALS13/F            | 7TCA296000R1317 | 2/15 | ASC42/M40/C90/BL  | 7TCA296000R1548 | 2/45 |
| AL42/PG36/SA/BL      | 7TCA296000R1144 | 2/18 | ALS16/F            | 7TCA296000R1318 | 2/15 | ASC42/PG36/A/BL   | 7TCA296000R1554 | 2/45 |
| AL42/PG36/SF45/BL    | 7TCA296000R1149 | 2/20 | ALS21/F            | 7TCA296000R1332 | 2/15 | ASC42/PG36/C90/BL | 7TCA296000R1557 | 2/45 |
| AL42/PG36/SFA/BL     | 7TCA296000R1151 | 2/19 | ALS28/C            | 7TCA296000R1345 | 2/15 | ASC54/FL/90/BL    | 7TCA296000R1560 | 2/62 |
| AL42/U175/45/000620  | 7TCA296000R1154 | 2/23 | ALS34/C            | 7TCA296000R1356 | 2/15 | ASC54/M50/A/BL    | 7TCA296000R1562 | 2/45 |
| AL42/U175/A/000620   | 7TCA296000R1155 | 2/21 | ALS42/C            | 7TCA296000R1362 | 2/15 | ASC54/M50/C90/BL  | 7TCA296000R1565 | 2/45 |
| AL42/U175/C90/000620 | 7TCA296000R1156 | 2/22 | ALS54/C            | 7TCA296000R1369 | 2/15 | ASC54/PG48/A/BL   | 7TCA296000R1571 | 2/45 |
| AL42/U200/45/000620  | 7TCA296000R1157 | 2/23 | AR13/M16/A/BL      | 7TCA296000R1392 | 2/48 | ASC54/PG48/C90/BL | 7TCA296000R1574 | 2/45 |
| AL42/U200/A/000620   | 7TCA296000R1158 | 2/21 | AR13/M16/C90/BL    | 7TCA296000R2670 | 2/48 | ASF10/M16/A/BL    | 7TCA296000R1576 | 2/45 |
| AL42/U200/C90/000620 | 7TCA296000R1159 | 2/22 | AR13/PG9/A/BL      | 7TCA296000R1393 | 2/48 | ASF10/M16/C90/BL  | 7TCA296000R1577 | 2/45 |
| AL42RT               | 7TCA296050R0030 | 2/58 | AR13X3/T/BL        | 7TCA296000R1394 | 2/49 | ASF10/PG9/A/BL    | 7TCA296000R1578 | 2/45 |
| AL54/150/A/BL        | 7TCA296000R1173 | 2/12 | AR16/M16/A/BL      | 7TCA296000R1396 | 2/48 | ASF10/PG9/C90/BL  | 7TCA296000R1580 | 2/45 |
| AL54/150/C90/BL      | 7TCA296000R1179 | 2/13 | AR16/M16/C90/BL    | 7TCA296000R1399 | 2/48 | ASF10X3/T/BL      | 7TCA296000R1581 | 2/46 |
| AL54/200/C90/BL      | 7TCA296000R1197 | 2/13 | AR16/M20/A/BL      | 7TCA296000R1405 | 2/48 | ASF13/FL/C90/BL   | 7TCA296000R1583 | 2/46 |
| AL54/A/U/BL          | 7TCA296000R2671 | 2/17 | AR16/M20/C90/BL    | 7TCA296000R1406 | 2/48 | ASF13/M16/A/BL    | 7TCA296000R1586 | 2/45 |
| AL54/FL/45/BL        | 7TCA296000R1203 | 2/17 | AR16/PG11/A/BL     | 7TCA296000R1408 | 2/48 | ASF13/M16/C90/BL  | 7TCA296000R1589 | 2/45 |
| AL54/FL/A/BL         | 7TCA296000R1209 | 2/16 | AR16/PG13/A/BL     | 7TCA296000R1416 | 2/48 | ASF13/PG9/A/BL    | 7TCA296000R1598 | 2/45 |

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| ASF16/FL/C90/BL     | 7TCA296000R1606 | 2/46 |
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| ASF16/M16/C90/BL    | 7TCA296000R1612 | 2/45 |
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| ASF16/PG11/A/BL     | 7TCA296000R1630 | 2/45 |
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| ASF16/PG13/A/BL     | 7TCA296000R1643 | 2/45 |
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| ASF21/PG16/A/BL     | 7TCA296000R1679 | 2/45 |
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| ASF21X3/T/BL        | 7TCA296000R1687 | 2/46 |
| ASF28/M25/A/BL      | 7TCA296000R1692 | 2/45 |
| ASF28/M25/C90/BL    | 7TCA296000R1694 | 2/45 |
| ASF28/PG21/A/BL     | 7TCA296000R1703 | 2/45 |
| ASF28/PG21/C90/BL   | 7TCA296000R1706 | 2/45 |
| ASF28X3/T/BL        | 7TCA296000R1709 | 2/46 |
| ASF34/FL/90/BL      | 7TCA296000R1711 | 2/46 |
| ASF34/M32/A/BL      | 7TCA296000R1714 | 2/45 |
| ASF34/M32/C90/BL    | 7TCA296000R1717 | 2/45 |
| ASF34/PG29/A/BL     | 7TCA296000R1727 | 2/45 |
| ASF34/PG29/C90/BL   | 7TCA296000R1731 | 2/45 |
| ASF34X3/T/BL        | 7TCA296000R1733 | 2/46 |
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| AT13/M16/A/BLY      | 7TCA296170R0020 | 2/27 |
| AT13/M16/C90/BLY    | 7TCA296170R0026 | 2/28 |
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| AT16/038/A/BLY      | 7TCA296170R0061 | 2/27 |
| AT16/038/C90/BLB    | 7TCA296170R0064 | 2/28 |
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| AT16/M20/A/BLY      | 7TCA296170R0144 | 2/27 |
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| AT16/U100/CSF90/BLY | 7TCA296170R0188 | 2/35 |
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| AT21/050/A/BLY      | 7TCA296170R0200 | 2/27 |
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