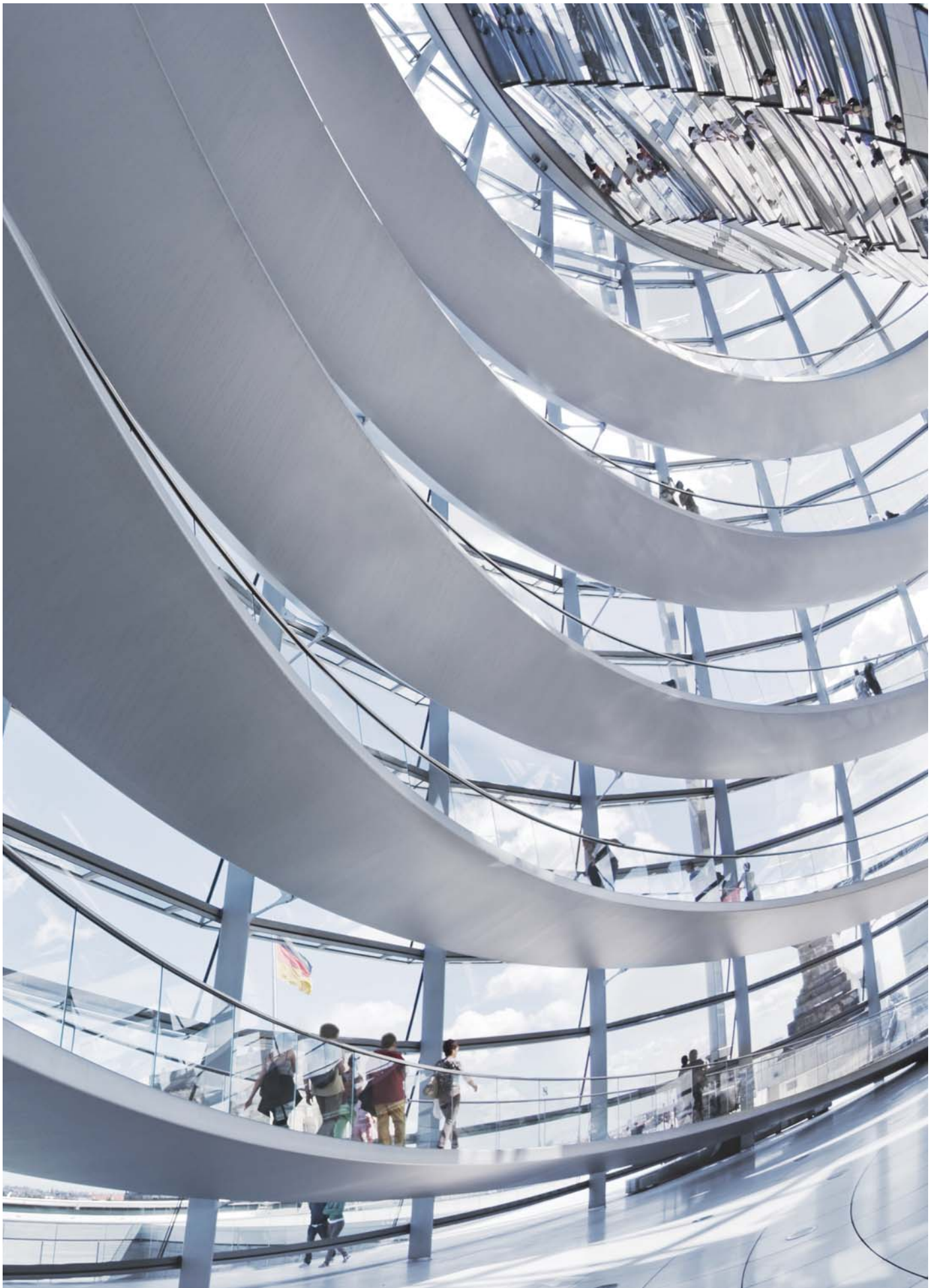




Product Catalogue | December 2014

# 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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# 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 are available throughout a wide range of markets including:

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

Many components are designed specifically for a market solution. These products uniquely meet an industry's needs - solving a specific application requirement, providing product innovation, saving installation and component costs, improving the quality and the integrity of the end product. Wherever you need mechanical and electrical protection for your cables you can be confident in specifying Adaptaflex products.

# 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 616386 Conduit standard covering the performance characteristics of flexible conduits
- Lloyds Register of shipping type approval for its non-metallic PR, PK and metallic LFH-SP and SPL products way back in 1995
- IP69K, 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 BS6583 Class 1A requirement and LUL engineering standard 1-085

### Industry standards

As one of the world leading flexible conduit system manufacturers, Adaptaflex has gained many international approvals. With company members on leading technical committees and actively looking at international standards,

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

Adaptaflex continuously monitor our own quality levels, but we also go that step further by having our products independently tested. As a result you don't have to just take our word for it, in contrast to some other companies our products are certified by independent third party agencies and standards so that you can have every confidence in our products.



# Introduction

## Third party testing & approvals

1



### Third party testing & approvals

#### IEC61386 Performance classification standard

Adaptaflex has achieved third party accreditation to the IEC 61386 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 this means 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 the proof you need 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

The variety of construction buildings and project requirements within the commercial market is indeed immense. But whatever the challenge you can be sure that Adaptaflex have a solution to meet those specific requirements.

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 in different 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 to get the right products to the right place on time and in full.

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 as this sector can be one of the most technically demanding markets. 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
- IP66/67/68/69k Adaptalok / 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 vastly 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 and which take into consideration minimum environmental impact, corrosion and chemical resistance, 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 IP67/68/69K.

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:

- Lloyds Register type approved
- UR
- BSI Kitemark to IEC61386
- CE marked to the Low Voltage Directive

### Product recommendation

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

# Applications

## Mechanical applications



1



### Mechanical overview

The range of applications for Adaptaflex cable and energy management systems is almost limitless. Whenever cable needs protection and wherever cable connections are required you will find that Adaptaflex have the answer, providing superior systems to cable management problems for over 30 years.

The range of products and variety of materials to choose from are immense. With different materials providing different performance characteristics it is important that you select not only the right product for your particular application but also the right material to give you continued performance where you need it.

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

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**Adaptalok ATS™ UNEF Fittings**

Type SFA - Adaptalok ATS™	2/33
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**Non-Metallic Accessories**

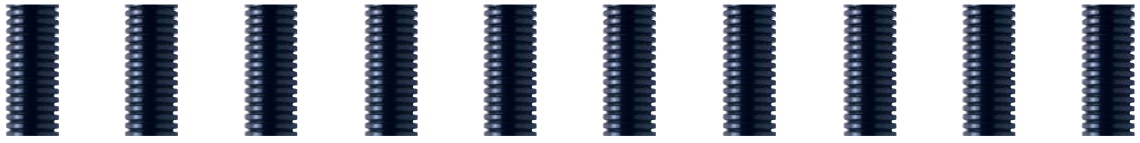
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# Non-metallic conduit systems

## Quick selection guide



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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	•	-	•	•	•	•	•	•	•	•	•
IP69k	-	-	•	-	•	•	•	•	-	•	•

### Characteristics

#### Temperature Range

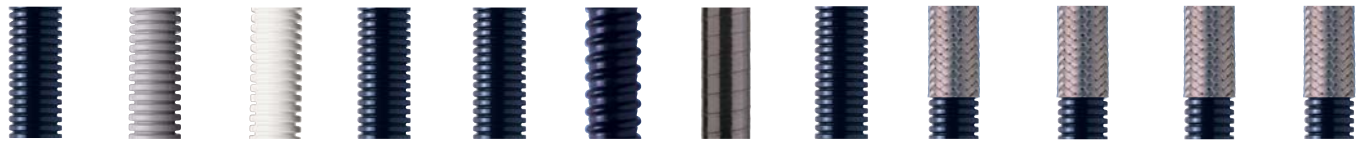
Static applications (°C)	-40 to +120	-40 to +120	-40 to +120	-40 to +120	-50 to +110	-50 to +110	-50 to +110	-50 to +110	-50 to +110	-40 to +120	-40 to +120
Moving applications (°C)	-5 to +120	-5 to +120	-5 to +120	-5 to +120	-45 to +120	-45 to +120	-45 to +120	-45 to +120	-45 to +120	-5 to +120	-18 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	-	-	-	-	-	-	-	-	-	-	•
DB	•	-	•	•	-	-	•	•	•	•	-
NF F	-	-	•	•	•	•	•	•	•	•	-
Lloyds Register	-	-	•	•	-	-	-	-	-	•	-
LUL 1-085	-	-	•	•	-	-	-	-	-	•	-
UNI CEI 11170	-	-	-	-	•	•	-	-	-	-	-

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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
•	-	-	•	•	•	•	•	-	-	-	-
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-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
-	-	-	-	-	-	-	-	•	•	•	•
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2/10	2/45	2/45	2/45	2/48	2/49	2/49	2/58	2/59	2/59	2/60	2/60



# 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.

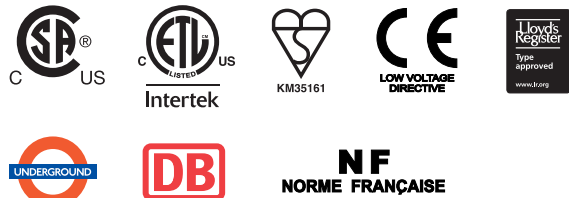
Our Conduit range is available in many different materials, ranging from lightweight to heavyweight with nominal conduit sizes from 10mm right up to the Jumbo size of 106mm.

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. In addition 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, DB, Lloyds Register 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	
IP69K	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	
IP69K	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

### Approvals



IP Rating	Appropriate Fitting	Temperature Range	UV Resistance
<b>For use with:</b> Adaptalok / ATS / Adaptaring / Adaptaseal / Jumbo		Static Applications: -40°C to +120°C Moving Applications: -5°C to +120°C	Very High
IP40	Adaptaring & Jumbo	<b>Flexibility &amp; Fatigue Life</b> High Flexibility - High Fatigue Life	
IP65	Jumbo + SK Seal		
IP66	Adaptalok, ATS or Adaptaseal	<b>Fire Performance &amp; EMI Screen</b> Self Extinguishing	
IP67	Adaptalok + ALS Seal or ATS, Adaptaseal		
IP68	Adaptalok + ALS Seal or ATS, Adaptaseal	Halogen Free	
IP69K	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

### 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 Moving Applications: -5°C to +120°C	Very High
IP40	Adaptaring	<b>Flexibility &amp; Fatigue Life</b> Medium Flexibility - Medium Fatigue Life	
IP65	N/A		
IP66	Adaptalok, ATS or Adaptaseal	<b>Fire Performance &amp; EMI Screen</b> Self Extinguishing	
IP67	Adaptalok + ALS Seal or ATS, Adaptaseal		
IP68	Adaptalok + ALS Seal or ATS, Adaptaseal	Halogen Free	
IP69K	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	8.5	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

#### Approvals



IP Rating	Appropriate Fitting	Temperature Range	UV Resistance
<b>For use with:</b> ATS / Adaptalok / ALS		Static Applications: -50°C to +110°C	Very High
IP40	N/A	Moving Applications: -45°C to +120°C	
IP65	N/A	<b>Flexibility &amp; Fatigue Life</b>	
IP66	ATS, Adaptalok	Very High Flexibility - Very High Fatigue Life	
IP67	ATS, Adaptalok + ALS Seal	<b>Fire Performance &amp; EMI Screen</b>	
IP68	ATS, Adaptalok + ALS Seal	Self Extinguishing	
IP69K	ATS, Adaptalok + ALS Seal	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

#### Approvals



IP Rating	Appropriate Fitting	Temperature Range	UV Resistance
<b>For use with:</b> ATS / Adaptalok / ALS		Static Applications: -50°C to +110°C	Very High
IP40	N/A	Moving Applications: -45°C to +120°C	
IP65	N/A	<b>Flexibility &amp; Fatigue Life</b>	
IP66	ATS, Adaptalok	High Flexibility - High Fatigue Life	
IP67	ATS, Adaptalok + ALS Seal	<b>Fire Performance &amp; EMI Screen</b>	
IP68	ATS, Adaptalok + ALS Seal	Self Extinguishing	
IP69K	ATS, Adaptalok + ALS Seal	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	8.5	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



NF

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	Very High
IP40	Adapting & Jumbo	Moving Applications: -45°C to +120°C	
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	
IP69K	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



NF

IP Rating	Appropriate Fitting	Temperature Range	UV Resistance
<b>For use with:</b> Adaptalok / ATS / Adapting / Adaptaseal		Static Applications: -50°C to +110°C	Very High
IP40	Adapting	Moving Applications: -45°C to +120°C	
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	
IP69K	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



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 Moving Applications: -5°C to +120°C	Very High
IP40	Adapting & Jumbo	<b>Flexibility &amp; Fatigue Life</b> High Flexibility - Medium Fatigue Life	<b>Fire Performance &amp; EMI Screen</b> Self Extinguishing
IP65	Jumbo + SK Seal		
IP66	Adaptalok or Adaptaseal	Halogen Free	
IP67	Adaptalok + ALS Seal or Adaptaseal		
IP68	Adaptalok + ALS Seal or Adaptaseal		
IP69K	Adaptalok + ALS Seal		



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 / ATS / Adaptaseal		Static Applications: -50°C to +135°C Moving Applications: -25°C to +150°C	Very High
IP40	N/A	<b>Flexibility &amp; Fatigue Life</b> Very High Flexibility - Very High Fatigue Life	<b>Fire Performance &amp; EMI Screen</b> Self Extinguishing
IP65	N/A		
IP66	Adaptalok or Adaptaseal	Halogen Free	
IP67	Adaptalok + ALS Seal & Adaptaseal		
IP68	Adaptalok + ALS Seal & Adaptaseal		
IP69K	Adaptalok + ALS Seal		



# Non-metallic conduit systems

## Type PADL / Type A & C90 - Adaptalok



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
PADL17	17mm	17	Coarse	17.8mm	13.5mm	45mm	50m
PADL22	22mm	20	Coarse	21.8mm	16.6mm	60mm	50m
PADL28	28mm	23	Coarse	28.5mm	22.6mm	70mm	25/50m
PADL34	34mm	29	Coarse	34.5mm	27.7mm	75mm	25/50m
PADL42	42mm	36	Coarse	42.5mm	35.2mm	80mm	10/25m

To order quote part number, colour & reel length, e.g. PADL17/BL/50M

### Approvals



IP Rating	Appropriate Fitting	Temperature Range	UV Resistance
<b>For use with:</b> Adaptalok / ALD / ATS		Static Applications: -40°C to +120°C	Very High
IP40	N/A	Moving Applications: -18°C to +120°C	
IP65	N/A	<b>Flexibility &amp; Fatigue Life</b>	
IP66	ALD or ATS	Medium Flexibility - Medium Fatigue Life	
IP67	ALD + ALS Seal or ATS	<b>Fire Performance &amp; EMI Screen</b>	
IP68	ALD + ALS Seal or ATS	Self Extinguishing	
IP69K	ALD + ALS Seal or ATS	Halogen Free	



PADL Type A  
Straight Fitting

### PADL Type A - Adaptalok

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

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

Part No.	Nominal Conduit Size	NPT Thread
ALD17/050/A	17mm	1/2"
ALD22/050/A	22mm	1/2"
ALD28/075/A	28mm	3/4"
ALD34/100/A	34mm	1"
ALD42/125/A	42mm	1 1/4"

To order quote part number, e.g. ALD17/050/A/BL. Note: Other fittings available. Contact our Sales Office for further details  
For use only with PADL conduit, to maintain the UL 1696 approval



Type C90  
90° Elbow Fitting

### PADL Type C90 - Adaptalok

**90° Elbow Fitting - Fixed External Male Thread** / For insertion into knockouts using a locknut

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

Part No.	Nominal Conduit Size	NPT Thread
ALD17/050/C90	17mm	1/2"
ALD22/050/C90	22mm	1/2"
ALD28/075/C90	28mm	3/4"
ALD34/100/C90	34mm	1"
ALD42/125/C90	42mm	1 1/4"

To order quote part number, e.g. ALD17/050/C90/BL. Note: Other fittings available. Contact our Sales Office for further details  
For use only with PADL conduit, to maintain the UL 1696 approval

# 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

### Approvals



### IP Rating

### Appropriate Conduit

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

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69K	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

### 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	
IP69K	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

#### Approvals



#### IP Rating

#### Appropriate Conduit

#### Temperature Range

**For use with:** 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

IP69K

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

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

Static Applications: -50°C to +120°C

IP40

Yes

Moving Applications: -45°C to +120°C

IP66

N/A

IP67

N/A

IP68

N/A

IP69K

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	
IP69K	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)	
IP69K	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 Moving Applications: -45°C to +120°C
IP67	Yes + ALS Seal	<b>Fitting Characteristics</b>
IP68	Yes + ALS Seal	
IP69K	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/C90	34mm
AL42/FL/C90	42mm
AL54/FL/C90	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 Moving Applications: -45°C to +120°C
IP67	Yes + ALS Seal	<b>Fitting Characteristics (FLC/90 ONLY)</b>
IP68	Yes + ALS Seal	
IP69K	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

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

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69K	Yes + ALS Seal

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics



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

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

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69K	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 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

#### Approvals



#### IP Rating

#### Appropriate Conduit

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

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69K	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

#### Approvals



#### IP Rating

#### Appropriate Conduit

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

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69K	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

#### 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 Moving Applications: -45°C to +120°C
IP67	Yes + ALS Seal	<b>Fitting Characteristics</b>
IP68	Yes + ALS Seal	
IP69K	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 Moving Applications: -45°C to +120°C
IP67	Yes + ALS Seal	<b>Fitting Characteristics</b>
IP68	Yes + ALS Seal	
IP69K	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

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

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69K	Yes + ALS Seal

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### 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

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

IP66	Yes
IP67	Yes + ALS Seal
IP68	Yes + ALS Seal
IP69K	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 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
IP69K	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
IP69K	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
IP69K	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

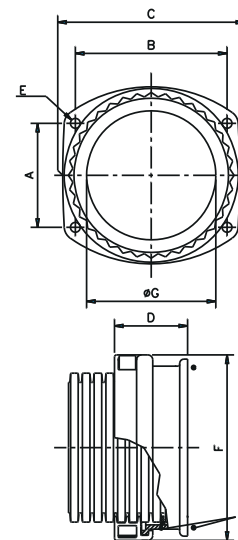
**Materials:** Polyamide (Nylon) 66 / **Colour:** Black (BL) Only

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	
IP69K	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

## Jumbo Type FL/90 - Adaptalok



Jumbo Type FL/90  
90° Jumbo Flange

### Jumbo Type FL/90 - Adaptalok

#### 90° Jumbo Flange

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

Part No.	Nominal Conduit Size
ADC80/FL/90	80mm
ADC106/FL/90	106mm

To order quote part number, e.g. ADC80/FL/90/BL

#### Approvals

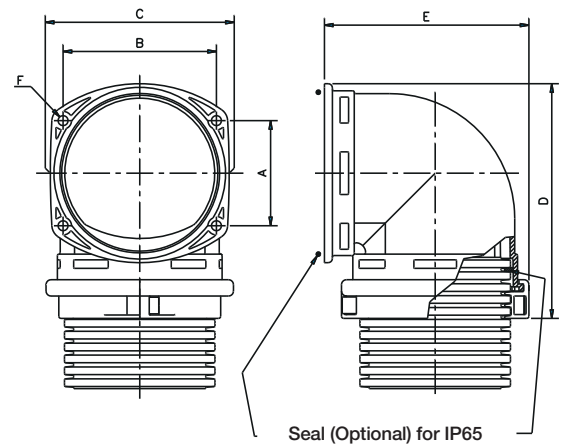


IP Rating	Appropriate Conduit
<b>For use with:</b> Type PA / PI / PR 80/106	
IP40	Yes
IP65	Yes + SK Seal
IP68	N/A
IP69K	N/A

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

Fitting Characteristics


Nominal Size	Part No. ADC80/FL/90	Part No. ADC106/FL/90
A	60mm	74mm
B	80mm	108mm
C	98mm	126mm
D	128mm	166mm
E $\varnothing$	110.5mm	144mm
F	7mm	7mm



# 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 6.6 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

### 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  
Straight Fitting

### 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

#### Approvals



IP Rating	Appropriate Conduit
<b>For use with:</b> Type PA / PI / CP / PR / PADL / PF	
IP40	Yes
IP65	Yes
IP68	Yes (4 bar 30mins)
IP69K	Yes

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

# 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 / CP / PR / PADL / PF

Static Applications: -50°C to +120°C

IP40	Yes
IP65	Yes
IP68	Yes (4 bar 30mins)
IP69K	Yes

Moving Applications: -45°C to +120°C



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	NPT 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 / CP / PR / PADL / PF

Static Applications: -50°C to +120°C

IP40	Yes
IP65	Yes
IP68	Yes (4 bar 30mins)
IP69K	Yes

Moving Applications: -45°C to +120°C

# 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/BLY

### Approvals



### IP Rating

### Appropriate Conduit

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

IP40	Yes
IP65	Yes
IP68	Yes (4 bar 30mins)
IP69K	Yes

### Temperature Range

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



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	NPT 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

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

IP40	Yes
IP65	Yes
IP68	Yes (4 bar 30mins)
IP69K	Yes

### Temperature Range

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

# 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



#### IP Rating

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

IP Rating	Appropriate Conduit
IP40	Yes
IP65	Yes
IP68	Yes (4 bar 30mins)
IP69K	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



#### IP Rating

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

IP Rating	Appropriate Conduit
IP40	Yes
IP65	Yes
IP68	Yes (4 bar 30mins)
IP69K	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



### IP Rating

### Appropriate Conduit

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

IP40	Yes
IP65	Yes
IP68	Yes (4 bar 30mins)
IP69K	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



### IP Rating

### Appropriate Conduit

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

IP40	Yes
IP65	Yes
IP68	Yes (4 bar 30mins)
IP69K	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



#### IP Rating

#### Appropriate Conduit

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

IP40	Yes
IP65	Yes
IP68	Yes (4 bar 30mins)
IP69K	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



#### IP Rating

#### Appropriate Conduit

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

IP40	Yes
IP65	Yes
IP68	Yes (4 bar 30mins)
IP69K	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 SFA - Adaptalok ATS™



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



#### IP Rating

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

IP Rating	Appropriate Conduit
IP40	Yes
IP65	Yes
IP68	Yes (4 bar 30mins)
IP69K	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™

2



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



#### IP Rating

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

IP Rating	Appropriate Conduit
IP40	Yes
IP65	Yes
IP68	Yes (4 bar 30mins)
IP69K	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 SF45 - Adaptalok ATS™



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



#### IP Rating

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

IP Rating	Appropriate Conduit
IP40	Yes
IP65	Yes
IP68	Yes (4 bar 30mins)
IP69K	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™

2



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	13mm
AT21/A/U	13mm
AT28/A/U	16mm
AT34/A/U	16mm
AT42/A/U	16mm
AT48/A/U	16mm
AT54/A/U	16mm

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

#### Approvals



IP Rating	Appropriate Conduit	Temperature Range
<b>For use with:</b> Type PA / PI / CP / PR / PADL / PF		Static Applications: -50°C to +120°C
IP40	Yes	Moving Applications: -45°C to +120°C
IP65	Yes	<b>Fitting Characteristics</b> 
IP68	Yes (4 bar 30mins)	
IP69K	Yes	



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
AT21/FL/A	21mm
AT28/FL/A	28mm

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

#### Approvals



IP Rating	Appropriate Conduit	Temperature Range
<b>For use with:</b> Type PA / PI / CP / PR / PADL / PF		Static Applications: -50°C to +120°C
IP40	Yes	Moving Applications: -45°C to +120°C
IP65	Yes	<b>Fitting Characteristics</b> 
IP68	Yes (4 bar 30mins)	
IP69K	Yes	

# Non-metallic conduit systems

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



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



IP Rating	Appropriate Conduit	Temperature Range
<b>For use with:</b> Type PA / PI / CP / PR / PADL / PF		Static Applications: -50°C to +120°C Moving Applications: -45°C to +120°C
IP40	Yes	<b>Fitting Characteristics</b> 
IP65	Yes	
IP68	Yes (4 bar 30mins)	
IP69K	Yes	



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
AT54/FL/45	54mm

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

#### Approvals



IP Rating	Appropriate Conduit	Temperature Range
<b>For use with:</b> Type PA / PI / CP / PR / PADL / PF		Static Applications: -50°C to +120°C Moving Applications: -45°C to +120°C
IP40	Yes	<b>Fitting Characteristics</b> 
IP65	Yes	
IP68	Yes (4 bar 30mins)	
IP69K	Yes	

# Non-metallic conduit systems

## Type T - Adaptalok ATS™

2



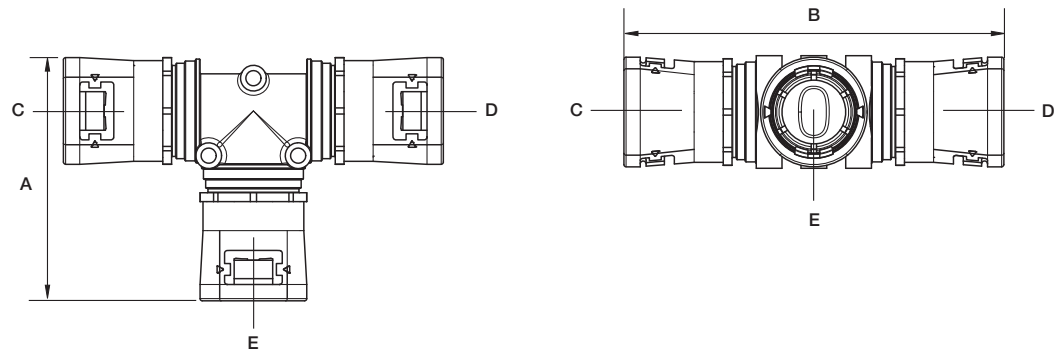
Type T  
3 Way 'T' Piece

### 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	74.2mm	132.2mm	21mm	13mm	16mm
	AT211321/T	74.2mm	127.9mm	21mm	13mm	21mm
	AT211613/T	79.2mm	127.2mm	21mm	16mm	13mm
	AT211616/T	79.2mm	132.2mm	21mm	16mm	16mm
	AT211621/T	79.2mm	127.9mm	21mm	16mm	21mm
	AT212113/T	77.2mm	127.9mm	21mm	21mm	13mm
	AT211616/T	77.2mm	127.9mm	21mm	16mm	16mm
	AT212121/T	77.2mm	127.9mm	21mm	21mm	21mm
<b>28T</b>	AT281321/T	92.4mm	135.2mm	28mm	13mm	21mm
	AT281328/T	88.0mm	135.2mm	28mm	13mm	28mm
	AT281621/T	92.4mm	139.8mm	28mm	16mm	21mm
	AT281628/T	88.0mm	139.8mm	28mm	16mm	28mm
	AT282121/T	92.4mm	143.5mm	28mm	21mm	21mm
	AT282128/T	88.0mm	143.5mm	28mm	21mm	28mm
	AT282828/T	88.0mm	134.2mm	28mm	28mm	28mm
<b>34T</b>	AT341634/T	90.0mm	145.1mm	34mm	16mm	34mm
	AT342128/T	100.5mm	155.6mm	34mm	21mm	28mm
	AT342134/T	90.0mm	155.6mm	34mm	21mm	34mm
	AT343434/T	90.0mm	145.1mm	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 / CP / PR / PADL / PF

IP40	Yes
IP65	Yes
IP68	Yes (4 bar 30mins)
IP69K	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™



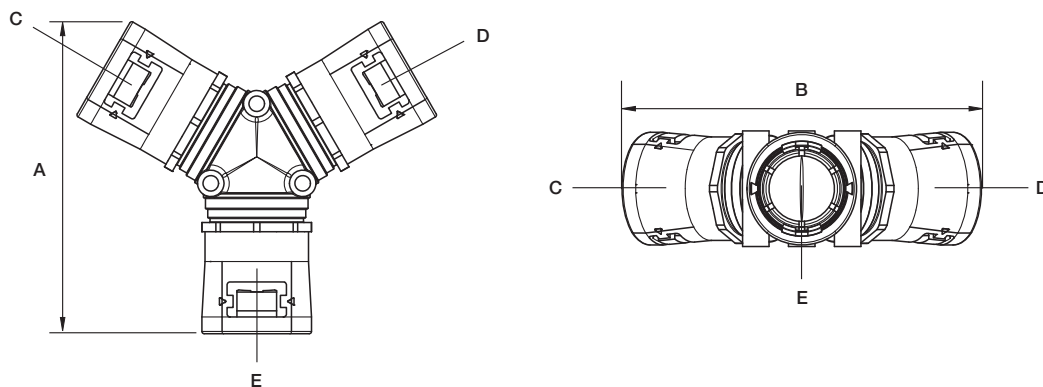
Type Y  
3 way 'Y' Piece

### Type Y - Adaptalok ATS™

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

28Y	Part No.	Nominal Dimensions / Conduit Size				
		A	B	C	D	E
	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 / CP / PR / PADL / PF

IP40	Yes
IP65	Yes
IP68	Yes (4 bar 30mins)
IP69K	Yes

#### Temperature Range

Static Applications: -50°C to +120°C

Moving Applications: -45°C to +120°C

#### Fitting Characteristics



# Non-metallic conduit systems

## Type A & C90 - Adaptaseal

2



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	Conduit Pitch	Metric Thread	Part No.	Nominal Conduit Size	Conduit Pitch	PG Thread
ASF10/M16/A	10mm	Fine	M16	ASF10/PG9/A	10mm	Fine	PG9
ASF13/M16/A	13mm	Fine	M16	ASF13/PG9/A	13mm	Fine	PG9
ASF16/M16/A	16mm	Fine	M16	ASF16/PG11/A	16mm	Fine	PG11
ASF16/M20/A	16mm	Fine	M20	ASF16/PG13/A	16mm	Fine	PG13.5
ASF21/M20/A	21mm	Fine	M20	ASF21/PG16/A	21mm	Fine	PG16
ASC21/M20/A	21mm	Coarse	M20	ASC21/PG16/A	21mm	Coarse	PG16
ASF28/M25/A	28mm	Fine	M25	ASF28/PG21/A	28mm	Fine	PG21
ASC28/M25/A	28mm	Coarse	M25	ASC28/PG21/A	28mm	Coarse	PG21
ASF34/M32/A	34mm	Fine	M32	ASF34/PG29/A	34mm	Fine	PG29
ASC34/M32/A	34mm	Coarse	M32	ASC34/PG29/A	34mm	Coarse	PG29
ASC42/M40/A	42mm	Coarse	M40	ASC42/PG36/A	42mm	Coarse	PG36
ASC54/M50/A	54mm	Coarse	M50	ASC54/PG48/A	54mm	Coarse	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		Static Applications: -40°C to +120°C
IP66	Yes	Moving Applications: -5°C to +120°C
IP67	Yes	
IP68	Yes (2 bar 30mins)	
IP69K	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	Conduit Pitch	Metric Thread	Part No.	Nominal Conduit Size	Conduit Pitch	PG Thread
ASF10/M16/C90	10mm	Fine	M16	ASF10/PG9/C90	10mm	Fine	PG9
ASF13/M16/C90	13mm	Fine	M16	ASF13/PG9/C90	13mm	Fine	PG9
ASF16/M16/C90	16mm	Fine	M16	ASF16/PG11/C90	16mm	Fine	PG11
ASF16/M20/C90	16mm	Fine	M20	ASF16/PG13/C90	16mm	Fine	PG13.5
ASF21/M20/C90	21mm	Fine	M20	ASF21/PG16/C90	21mm	Fine	PG16
ASC21/M20/C90	21mm	Coarse	M20	ASC21/PG16/C90	21mm	Coarse	PG16
ASF28/M25/C90	28mm	Fine	M25	ASF28/PG21/C90	28mm	Fine	PG21
ASC28/M25/C90	28mm	Coarse	M25	ASC28/PG21/C90	28mm	Coarse	PG21
ASF34/M32/C90	34mm	Fine	M32	ASF34/PG29/C90	34mm	Fine	PG29
ASC34/M32/C90	34mm	Coarse	M32	ASC34/PG29/C90	34mm	Coarse	PG29
ASC42/M40/C90	42mm	Coarse	M40	ASC42/PG36/C90	42mm	Coarse	PG36
ASC54/M50/C90	54mm	Coarse	M50	ASC54/PG48/C90	54mm	Coarse	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		Static Applications: -40°C to +120°C
IP66	Yes	Moving Applications: -5°C to +120°C
IP67	Yes	
IP68	Yes (2 bar 30mins)	
IP69K	Yes	

# Non-metallic conduit systems

## Type FLC90/FL90 & T - Adaptaseal



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	Conduit Pitch
ASF13/FL/C90	13mm	Fine
ASF16/FL/C90	16mm	Fine
ASF21/FL/C90	21mm	Fine
ASC21/FL/C90	21mm	Coarse
ASF28/FL/C90	28mm	Fine
ASC28/FL/C90	28mm	Coarse
ASF34/FL/90*	34mm	Fine
ASC34/FL/90*	34mm	Coarse
ASC42/FL/90*	42mm	Coarse
ASC54/FL/90*	54mm	Coarse

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)	
IP69K	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	Conduit Pitch	Metric Thread
ASF10X3/T	10mm	Fine	M10
ASF13X3/T	13mm	Fine	M13
ASF16X3/T	16mm	Fine	M16
ASF21X3/T	21mm	Fine	M21
ASC21X3/T	21mm	Coarse	M21
ASF28X3/T	28mm	Fine	M28
ASC28X3/T	28mm	Coarse	M28
ASF34X3/T	34mm	Fine	M34
ASC34X3/T	34mm	Coarse	M34

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

#### Approvals

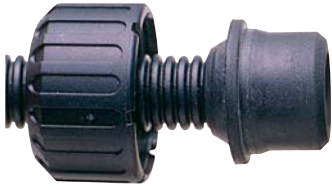


IP Rating	Appropriate Conduit	Temperature Range
<b>For use with:</b> Type PA / PI / CP / PR / PF		Static Applications: -40°C to +120°C
IP66	Yes	Moving Applications: -5°C to +120°C
IP67	Yes	
IP68	N/A	
IP69K	N/A	

# Non-metallic conduit systems

## Type RK & AWB - Adaptaseal

2



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

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

IP66	Yes
IP67	Yes
IP68	N/A
IP69K	N/A

### Temperature Range

Static Applications: -40°C to +120°C

Moving Applications: -5°C to +120°C



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



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	28mm	PG16
AR28/M25/A	28mm	M25	AR28/PG21/A	42mm	PG21
AR34/M32/A	34mm	M32	AR34/PG29/A	48mm	PG29
AR42/M40/A	42mm	M42	AR42/PG36/A	54mm	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

IP40	Yes
IP65	N/A
IP66	N/A
IP67	N/A
IP68	N/A
IP69K	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	M42
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

IP40	Yes
IP65	N/A
IP66	N/A
IP67	N/A
IP68	N/A
IP69K	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

2



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	
IP69K	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



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
<b>For use with:</b> Korifit KC & KF		Static Applications: -5°C to +60°C	High
IP40	Korifit KC	Moving Applications: -5°C to +60°C	
IP65	Korifit KF	<b>Flexibility &amp; Fatigue Life</b>	
IP66	N/A	Pliable - Low Fatigue Life	
IP67	N/A	<b>Fire Performance &amp; EMI Screen</b>	
IP68	N/A	Self Extinguishing	
IP69K	N/A		

# Non-metallic conduit systems

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

2



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	
IP69K	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	
IP69K	N/A	

# Non-metallic conduit systems

## Type KF/A & Coupler - Korifit



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	
IP69K	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	
IP69K	N/A	

# Non-metallic conduit systems

## Polypropylene Type PP & PPA - Adaptalok

2



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 PP		Static Applications: -20°C to +90°C	Medium
IP40	N/A	Moving Applications: -5°C to +105°C	<b>Flexibility &amp; Fatigue Life</b> High Flexibility - Medium Fatigue Life
IP65	N/A		
IP66	Polypropylene Type PP		
IP67	N/A		
IP68	N/A		
IP69K	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	NW Conduit Size	Outside Diameter	Metric Thread
AL13/M16/PPA	13mm	10	13.0mm	M16
AL16/M16/PPA	16mm	13	15.8mm	M16
AL21/M20/PPA	21mm	17	21.2mm	M20
AL28/M25/PPA	28mm	23	28.5mm	M25
AL34/M32/PPA	34mm	29	34.5mm	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 PPA		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		
IP69K	N/A		

# Non-metallic conduit systems

## PVC Type XF & RF - Xtraflex / RF



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, colour & reel length, e.g. XF16/BL/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	
IP69K	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	
IP69K	N/A		

# Non-metallic conduit systems

## PVC Type A & C90 - XF

2



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 & body colour, e.g. XF16/M16/D/BL  
PG, PF & NPT thread sizes available

#### 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	
IP69K	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 & body colour, e.g. XF16/M16/C90/BL  
PG, PF & NPT thread sizes available

#### 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	
IP69K	N/A	



# Non-metallic conduit systems

## PVC Type A & C90 - RF



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/D	12mm	M16
RF16/M16/D	16mm	M16
RF16/M20/D	16mm	M20
RF20/M20/D	20mm	M20
RF25/M25/D	25mm	M25
RF32/M32/D	32mm	M32

To order quote part number & body colour, e.g. XF16/M16/D/BL  
PG, PF & NPT thread sizes available

#### 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	
IP69K	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 & body colour, e.g. XF16/M16/C90/BL  
PG, PF & NPT thread sizes available

#### 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	
IP69K	N/A	

# Non-metallic conduit systems

## Accessories - Type LNP, SW & AC

2



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	M20	LNPB/PG13	LNPG/PG13	PG13
LNPB/M32	LNPG/M32	M20	LNPB/PG16	LNPG/PG16	PG16
LNPB/M40	LNPG/M40	M20	LNPB/PG21	LNPG/PG21	PG21
LNPB/M50	LNPG/M50	M32	LNPB/PG29	LNPG/PG29	PG29
LNPB/M63	LNPG/M63	M20	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 - Captive** / Rubber - For use with Nylon threaded fittings. Nylon - For use with swivel metal threaded fittings

**Materials:** Rubber or Nylon / **Colour:** Black (BL), Yellow (Y), Blue (B)

Part No.	Metric Thread	Part No.	NPT & PF Thread (Black Only)
SWM12	M12	SW038	3/8"
SWM16	M16	SW050	1/2"
SWM20	M20	SW075	3/4"
SWM25	M25	SW100	1"
SWM32	M32	SW125	1 1/4"
SWM40	M40	SW150	1 1/2"
SWM50	M50	SW200	2"
SWM63	M63		

To order quote part number & body colour, e.g. Rubber / Yellow - SWM12/Y, Nylon / Blue - SWM20/NB



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
ACB48	ACG48	ACB48/ST	48mm
ACB54	ACG54	ACB54/ST	54mm

# Non-metallic conduit systems

## Accessories - Type GZ, EC & RT



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

# Non-metallic conduit systems

## Accessories - Type FK - Fastlok / Type MB

2



Type FK  
Fastlok Adapter

### Type FK - Fastlok

**Fastlok Adapter - Straight Fitting** / Quick fit, front of panel mounting adapter, into which can be screwed any metric threaded product

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

Part No.	Hole Diameter For Fastlok	Metric Thread
FK20	20.5mm	M20
FK25	25.5mm	M25

To order quote part number, body colour & Elastomer colour, e.g. FK20/BLY

Fastlok adapters use seals to provide an ingress protection level of IP66, 67, 68 and 69k. They are a superior alternative to 'Push-in' type fittings, they provide better protection and are simpler to install and remove. Fastlok provides minimum intrusion into the enclosure space.

### Approvals



IP Rating	Appropriate Fitting	Temperature Range
<b>For use with:</b> All threaded Adaptalok ATS™ Fittings		
IP66	Yes	Static Applications: -50°C to +120°C Moving Applications: -45°C to +120°C
IP67	Yes	
IP68	N/A	
IP69K	N/A	



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 Lid (mm) Dia X Height	External Dimensions Fixing Lugs (mm)	Max Threaded 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 or Fastlok adapters 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)		
IP69K	Yes		

# Non-metallic conduit systems

## Fastlok adapters & manifold boxes assembly & configuration guide

### Fastlok assembly

1. Drill hole into enclosure
2. Insert Fastlok into the hole
3. Tighten left-hand thread to secure to enclosure
4. Screw fitting into Fastlok

Exploded view of Fastlok, Enclosure & Fitting Assembly:



Fastlok fits quickly and is secured easily without the need for any additional tools:



Minimum intrusion into enclosure:



### Manifold boxes - example configurations

Each manifold is provided with eight blank sides which require drilling/machining to suit the application.



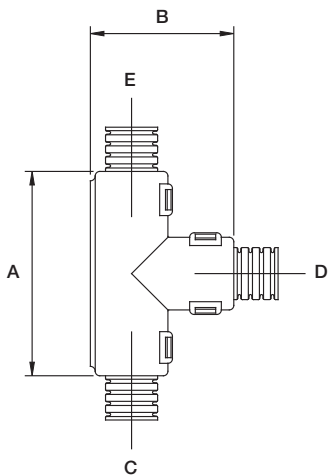
# Non-metallic conduit systems

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

2



Type PA  
Hinged 'T' Piece



### Type T

Hinged 'T' Piece / **Materials:** Polyamide (Nylon) 66 / **Colour:** Black (BL), Grey (GR)

	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
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
IP69K	N/A

### Temperature Range

Static Applications: -40°C to +120°C

Moving Applications: -5°C to +120°C

### Fitting Characteristics

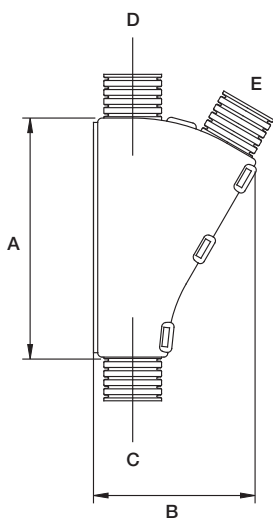
Snap Fit

# 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
IP69K	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

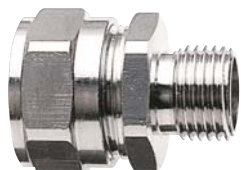
Part No.	Nominal Conduit Size	NW Conduit Size	Conduit Pitch	Outside Diameter	Inside Diameter	Min. Bend Radius	Reel Length
PKFS13	13mm	10	Fine	13.2mm	10.0mm	35mm	25, 50m
PKFS16	16mm	13	Fine	16.3mm	11.7mm	45mm	25, 50m
PKFS21	21mm	17	Fine	21.2mm	16.6mm	60mm	25, 50m
PKCS28	28mm	23	Coarse	28.4mm	21.7mm	65mm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

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	<b>Flexibility &amp; Fatigue Life</b> High Flexibility - High Fatigue Life
IP65	N/A		
IP66	Peek Type A		<b>Fire Performance &amp; EMI Screen</b> Self Extinguishing Halogen Free
IP67	Peek Type A		
IP68	N/A		
IP69K	N/A		



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	NW Conduit Size	Conduit Pitch	Outside Diameter	Metric Thread
PK13/M16/A	13mm	10	Fine	13.2mm	M16
PK16/M16/A	16mm	13	Fine	16.3mm	M16
PK21/M20/A	21mm	17	Fine	21.2mm	M20
PK28/M25/A	28mm	23	Coarse	28.4mm	M50
PK34/M32/A	34mm	29	Coarse	34.3mm	M63

#### Approvals



IP Rating	Appropriate Conduit	Temperature Range	Fire Performance & EMI Screen
<b>For use with:</b> Peek Type PK		Static Applications: -60°C to +260°C	<b>Fire Performance &amp; EMI Screen</b> Self Extinguishing Halogen Free
IP40	N/A	Moving Applications: -45°C to +260°C	
IP65	N/A		
IP66	Yes		
IP67	Yes		
IP68	N/A		
IP69K	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 Moving Applications: -45°C to +260°C	Very High
IP40	N/A	<b>Flexibility &amp; Fatigue Life</b> High Flexibility - High Fatigue Life	<b>Fire Performance &amp; EMI Screen</b> Self Extinguishing Halogen Free
IP65	N/A		
IP66	Hi-Spec Type A & B		
IP67	Hi-Spec Type A & B		
IP68	N/A		
IP69K	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
PKFSSS28	28mm	23	Coarse	30.0mm	21.7mm	65mm	25, 50m
PKFSSS34	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 Moving Applications: -45°C to +260°C	Very High
IP40	N/A	<b>Flexibility &amp; Fatigue Life</b> High Flexibility - High Fatigue Life	<b>Fire Performance &amp; EMI Screen</b> Self Extinguishing Halogen Free
IP65	N/A		
IP66	Hi-Spec Type A & B		
IP67	Hi-Spec Type A & B		
IP68	N/A		
IP69K	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	45mm	50m
PRCSTC28	28mm	23	Coarse	30.0mm	21.7mm	50mm	50m
PRCSTC34	34mm	29	Coarse	36.0mm	27.7mm	60mm	50m
PRCSTC42	42mm	36	Coarse	43.5mm	35.1mm	65mm	25m
PRCSTC54	54mm	48	Coarse	56.5mm	46.6mm	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> Hi-Spec Type A & B		Static Applications: -40°C to +120°C Moving Applications: -5°C to +120°C	Very High
IP40	N/A	<b>Flexibility &amp; Fatigue Life</b> High Flexibility - Medium Fatigue Life	<b>Fire Performance &amp; EMI Screen</b> Self Extinguishing
IP65	N/A		
IP66	Hi-Spec A & B	 	
IP67	Hi-Spec A & B		
IP68	N/A		
IP69K	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	45mm	50m
PRCSSS28	28mm	23	Coarse	30.0mm	21.7mm	50mm	50m
PRCSSS34	34mm	29	Coarse	36.0mm	27.7mm	60mm	50m
PRCSSS42	42mm	36	Coarse	43.5mm	35.1mm	65mm	25m
PRCSSS54	54mm	48	Coarse	56.5mm	46.6mm	75mm	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 Moving Applications: -5°C to +120°C	Very High
IP40	N/A	<b>Flexibility &amp; Fatigue Life</b> High Flexibility - Medium Fatigue Life	<b>Fire Performance &amp; EMI Screen</b> Self Extinguishing
IP65	N/A		
IP66	Hi-Spec A & B	 	
IP67	Hi-Spec A & B		
IP68	N/A		
IP69K	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	NW Conduit Size	Conduit Pitch	Outside Diameter	Metric Thread
PBF16/M16/A	16mm	13	Fine	17.2mm	M16
PBF21/M20/A	21mm	17	Fine	23.6mm	M20
PBC28/M25/A	28mm	23	Coarse	30.0mm	M25
PBC34/M32/A	34mm	29	Coarse	36.0mm	M32
PBC42/M40/A	42mm	36	Coarse	43.5mm	M40

#### Approvals



#### IP Rating

#### Appropriate Conduit

#### Temperature Range

**For use with:** 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

IP69K

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	NW Conduit Size	Conduit Pitch	Outside Diameter	Metric Thread
PBF16/M16/B	16mm	13	Fine	17.2mm	M16
PBF21/M20/B	21mm	17	Fine	23.6mm	M20
PBC28/M25/B	28mm	23	Coarse	30.0mm	M25
PBC34/M32/B	34mm	29	Coarse	36.0mm	M32
PBC40/M40/B	42mm	36	Coarse	43.5mm	M42
PBC54/M50/B	54mm	48	Coarse	56.5mm	M50

#### Approvals



#### IP Rating

#### Appropriate Conduit

#### Temperature Range

**For use with:** 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

IP69K

N/A

#### Fire Performance & EMI Screen





# Metallic conduit systems

## Conduit, fittings & accessories

### Metallic Conduit Systems

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### Adaptasteel Specialist Liquid Tight Conduit & Fittings

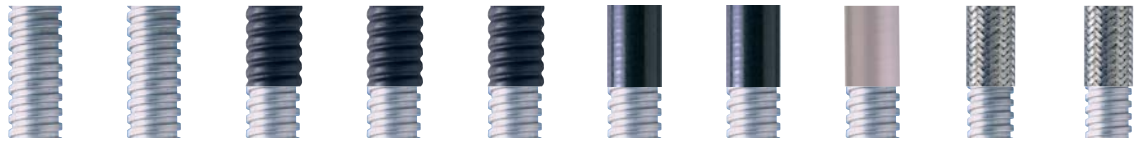
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# Metallic conduit systems

## Quick selection guide



Conduit Type	Type S	Type SS	Type SP	Type SN	Type LFH-SP	Type SPL	Type SPLHC	Type SPUL	Type SB	Type STC
Part number	S	SS	SP	SN	LFH-SP	SPL	SPLHC	SPUL	SB	STC
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	Thermoplastic rubber	PVC	Galvanised steel	Tinned copper

### Conduit colour

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

### IP Rating (with appropriate fitting)

IP40	•	•	-	-	-	-	-	-	•	•
IP54	-	-	•	•	•	-	-	-	-	-
IP65	-	-	•	•	•	-	-	-	-	-
IP66	-	-	-	-	-	•	•	•	-	-
IP67	-	-	-	-	-	•	•	•	-	-
IP68	-	-	-	-	-	•	•	•	-	-
IP69k	-	-	-	-	-	•	•	•	-	-

### Characteristics

#### Temperature Range

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

### Approvals

BSI Kitemark	•	•	•	•	•	•	•	•	•	•
CE	•	•	•	•	•	•	•	•	•	•
UL / CSA	-	-	-	-	-	-	-	•	-	-
UR	-	-	-	-	-	•	-	-	-	-
DB	-	-	-	-	-	-	-	-	-	-
NF F	-	-	-	-	•	-	-	-	-	-
Lloyds Register	-	-	-	-	•	•	-	-	-	-
LUL 1-085	-	-	-	-	•	-	-	-	-	-
UNI CEI 11170	-	-	-	-	-	-	-	-	-	-

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Type SSB	Type SSBGS	Type SPB	Type SPTC	Type SPLHCB
SSB	SSBGS	SPB	SPTC	SPLHCB
Stainless steel	Galvanised steel	Galvanised steel	Galvanised steel	Galvanised steel
Stainless steel	Stainless steel	PVC & Galvanised steel	PVC & tinned copper	Rubber & stainless steel
-	-	-	-	-
-	-	-	-	-
•	•	-	-	-
-	-	•	•	-
-	-	-	-	-
-	-	-	-	•
-	-	-	-	•
-	-	-	-	•
-	-	-	-	-
-50 to +300	-50 to +300	-15 to +70	-15 to +70	-65 to +135
-45 to +250	-45 to +250	-5 to +90	-5 to +90	-45 to +150
Very high	Very high	Very high	Very high	Very high
High	High	High	High	High
High	High	Medium	Medium	Medium
Inherent	Inherent	-	-	-
•	•	-	-	•
-	-	•	•	•
Standard	Standard	Enhanced	High	Standard
•	•	•	•	•
•	•	•	•	•
•	•	•	•	-
•	•	•	•	•
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
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# Metallic conduit systems

## Introduction

### Range overview

Adaptaflex have a choice of fifteen individual metallic conduit systems manufactured either in galvanized steel or stainless steel.

A range of 3 different conduit types provide a solution for liquid resistant specifications with a further 3 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, DB, Lloyds Register 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	Minimum 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		
IP69K	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	Minimum 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

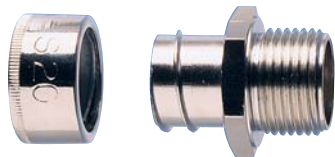
#### Approvals



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		
IP69K	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
IP69K	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/M20/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
IP69K	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	
IP69K	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	
IP69K	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	Minimum 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
IP40	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	
IP69K	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	Minimum 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
IP40	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	
IP69K	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	Minimum 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



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	
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	
IP69K	N/A	Halogen Free	



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			

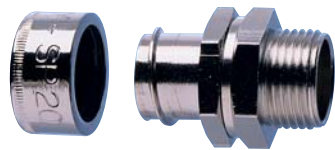
#### Approvals



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	
IP69K	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
IP69K	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

### Approvals



### 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
IP69K	N/A

### Temperature Range

Static Applications: -50°C to +300°C

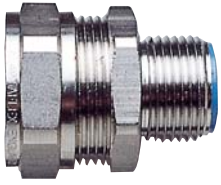
Moving Applications: -45°C to +250°C

### Fitting Characteristics



# 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"
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	Appropriate Conduit	Temperature Range
<b>For use with:</b> Type SP / SN / LFH-SP		
IP54	N/A	Static Applications: -50°C to +150°C
IP65	Yes	Moving Applications: -45°C to +150°C
IP66	N/A	
IP67	N/A	
IP68	N/A	
IP69K	N/A	

#### 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	Appropriate Conduit	Temperature Range
<b>For use with:</b> Type SP / SN / LFH-SP		
IP54	Yes	Static Applications: -50°C to +300°C
IP65	N/A	Moving Applications: -45°C to +250°C
IP66	N/A	
IP67	N/A	
IP68	N/A	
IP69K	N/A	



# 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 Moving Applications: -45°C to +250°C
IP65	N/A	
IP66	N/A	
IP67	N/A	
IP68	N/A	
IP69K	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

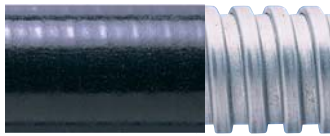
#### Approvals



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 Moving Applications: -45°C to +250°C
IP65	N/A	
IP66	N/A	
IP67	N/A	
IP68	N/A	
IP69K	N/A	

# Metallic conduit systems

## Type SPL & SPLHC - Adaptasteel



Type SPL  
Liquid Tight Oil Resistant  
Covered Steel Flexible Conduit

### Type SPL - Adaptasteel

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

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

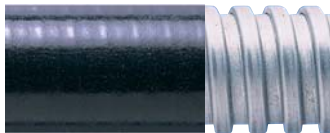
Part No.	Nominal Conduit Size	Outside Diameter	US Conduit Size	Inside Diameter	Min. Bend Radius	Reel Length
SPL10	10mm	11.8mm	1/4"	7.0mm	40mm	10, 25, 50m
SPL12	12mm	14.2mm	5/16"	10.0mm	45mm	10, 25, 50m
SPL16	16mm	17.8mm	3/8"	12.5mm	50mm	10, 25, 50m
SPL20	20mm	21.1mm	1/2"	15.9mm	80mm	10, 25, 50m
SPL25	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 & C90	Medium Flexibility - Medium Fatigue Life	
IP67	Type SPL - Type A, B, & M	<b>Fire Performance &amp; EMI Screen</b>	
IP68	Type SPL - Type M	Self Extinguishing	
IP69K	Type SPL - Type M		



Type SPLHC  
Liquid Tight Extreme Temperature  
Covered Steel Flexible Conduit

### 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 & C90	Very High Flexibility - High Fatigue Life	
IP67	Type SPL - Type A, B, & M	<b>Fire Performance &amp; EMI Screen</b>	
IP68	Type SPL - Type M	Self Extinguishing	
IP69K	Type SPL - Type M	Halogen Free	

# Metallic conduit systems

## Type SPUL & A - Adaptasteel



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:** Grey (GR) Only

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	50m
SPUL20	20mm	21.1mm	1/2"	15.9mm	80mm	50m
SPUL25	25mm	26.4mm	3/4"	21.0mm	110mm	25m
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	10m

To order quote part number & reel length, e.g. SPUL16/50M

### 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 & C90	Medium Flexibility - Medium Fatigue Life	
IP67	Type SPL - Type A, B, & M	<b>Fire Performance &amp; EMI Screen</b>	
IP68	Type SPL - Type M	Self Extinguishing	
IP69K	Type SPL - Type M		



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		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	
IP69K	N/A	

# Metallic conduit systems

## Type B & E - Adaptasteel

3



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		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	
IP69K	N/A	

#### Fitting Characteristics



Type E  
Conduit Terminator

### Type E - Adaptasteel

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

**Materials:** Nickel plated brass

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

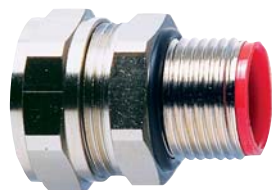
#### Approvals



IP Rating	Appropriate Conduit	Temperature Range
<b>For use with:</b> Type SPL / SPLHC / SPUL		Static Applications: -65°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	
IP69K	N/A	

# 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
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"

#### Approvals



UL514B  
File No. E60625

IP Rating	Appropriate Conduit	Temperature Range
<b>For use with:</b> Type SPL / SPLHC / SPUL		
IP54	N/A	Static Applications: -65°C to +150°C
IP65	N/A	Moving Applications: -45°C to +150°C
IP66	Yes	
IP67	Yes	
IP68	Yes (10 bar 30mins)	
IP69K	Yes	

#### Fitting Characteristics



# Metallic conduit systems

## Type C90 & 45 - Adaptasteel

3



Type A  
90° Combined  
Fitting & Elbow

### Type C90 - Adaptasteel

90° Combined Fitting & Elbow - 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/C90	16mm	3/8"	M16
SPL16/M20/C90	16mm	3/8"	M20
SPL20/M20/C90	20mm	1/2"	M20
SPL25/M25/C90	25mm	3/4"	M25
SPL32/M32/C90	32mm	1"	M32

#### Approvals



UL514B  
File No. E60625

#### IP Rating

#### Appropriate Conduit

#### Temperature Range

For use with: Type SPL / SPLHC / SPUL

IP54	N/A
IP65	N/A
IP66	N/A
IP67	Yes
IP68	N/A
IP69K	N/A

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
B/M16/45	16mm	3/8"	M16*
B/M20/45	16mm	3/8"	M20
B/M20/45	20mm	1/2"	M20
B/M25/45	25mm	3/4"	M25
B/M32/45	32mm	1"	M32

\*Includes M20 Internal Thread

#### Approvals



UL514B  
File No. E60625

#### IP Rating

#### Appropriate Conduit

#### Temperature Range

For use with: Type SPL / SPLHC / SPUL

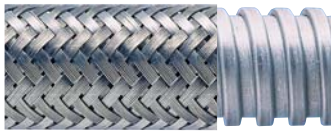
IP54	N/A
IP65	N/A
IP66	N/A
IP67	Yes
IP68	N/A
IP69K	N/A

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		
IP69K	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	13mm	24.0mm	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

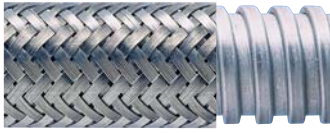
#### Approvals



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		
IP69K	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

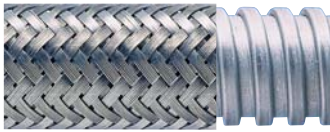
Part No.	Nominal Conduit Size	Outside Diameter	Inside Diameter	Min. Bend Radius	Reel Length
SSB12	13mm	24.0mm	10.3mm	30mm	25m
SSB16	16mm	17.5mm	13.0mm	35mm	25m
SSB20	20mm	21.5mm	16.9mm	45mm	25m
SSB25	25mm	26.0mm	21.4mm	55mm	25m
SSB32	32mm	34.0mm	28.1mm	60mm	10m

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		
IP69K	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
SSBG12	13mm	24.0mm	10.3mm	30mm	25m
SSBG16	16mm	17.5mm	13.0mm	35mm	25m
SSBG20	20mm	21.5mm	16.9mm	45mm	25m
SSBG25	25mm	26.0mm	21.4mm	55mm	25m
SSBG32	32mm	34.0mm	28.1mm	60mm	10m

To order quote part number & reel length, e.g. SSBG12/25M

#### 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		
IP69K	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	13mm	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 Moving Applications: -45°C to +250°C
IP65	N/A	
IP66	N/A	
IP67	N/A	
IP68	N/A	
IP69K	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	13mm	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 Moving Applications: -45°C to +250°C
IP65	N/A	
IP66	N/A	
IP67	N/A	
IP68	N/A	
IP69K	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	13mm	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>	High Flexibility - Medium Fatigue Life
IP66	N/A		
IP67	N/A	<b>Fire Performance &amp; EMI Screen</b>	Self Extinguishing
IP68	N/A		
IP69K	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	13mm	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>	High Flexibility - Medium Fatigue Life
IP66	N/A		
IP67	N/A	<b>Fire Performance &amp; EMI Screen</b>	Self Extinguishing
IP68	N/A		
IP69K	N/A		



# Metallic conduit systems

## EMI screen, liquid resistant 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
SPB10/M12/A	10mm	M12
SPB12/M16/A	13mm	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		
IP54	Yes	Static Applications: -50°C to +300°C Moving Applications: -45°C to +250°C
IP65	N/A	
IP66	N/A	
IP67	N/A	
IP68	N/A	
IP69K	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
SPB10/M12/B	10mm	M12
SPB12/M16/B	13mm	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		
IP54	Yes	Static Applications: -50°C to +300°C Moving Applications: -45°C to +250°C
IP65	N/A	
IP66	N/A	
IP67	N/A	
IP68	N/A	
IP69K	N/A	

### Fitting Characteristics



# Metallic conduit systems

## Liquid resistant, high strength Type SPLHCB & A - Adaptasteel



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

3

### 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	<b>Flexibility &amp; Fatigue Life</b>	
IP66	Type SPLB - Type A & B	Very High Flexibility - High Fatigue Life	
IP67	Type SPLB - Type A & B	<b>Fire Performance &amp; EMI Screen</b>	
IP68	Type SPLB - Type A & B	Self Extinguishing	
IP69K	N/A	Halogen Free	



**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		Static Applications: -65°C to +135°C
IP40	N/A	Moving Applications: -45°C to +150°C
IP65	N/A	
IP66	Yes	
IP67	Yes	
IP68	Yes (10 bar 30mins)	
IP69K	N/A	

# Metallic conduit systems

## Liquid resistant, high strength Type B - 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
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



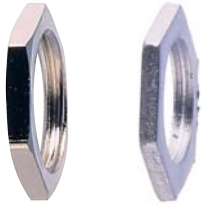
IP Rating	Appropriate Conduit	Temperature Range
<b>For use with:</b> Type SPLHCB		Static Applications: -65°C to +135°C
IP40	N/A	Moving Applications: -45°C to +150°C
IP65	N/A	
IP66	Yes	
IP67	Yes	
IP68	Yes (10 bar 30mins)	
IP69K	N/A	

### 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	
13/16"UNEF		B/119U-M20/TC	B/119U-M25/TC	
15/16"UNEF		B/131U-M20/TC		
17/16"UNEF			B/144U-M25/TC	B/144U-M32/TC



Female Coupler  
Brass Female Coupler

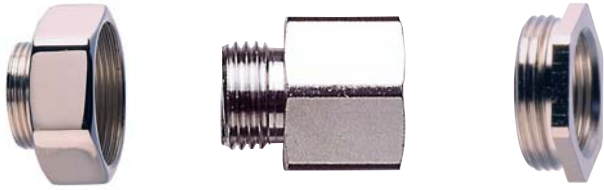
### Female Coupler

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 Internal Thread	To PG9 Internal Thread	To PG11 Internal Thread	To PG13.5 Internal Thread	To PG16 Internal Thread	To PG21 Internal Thread	To PG29 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 M12 Internal Thread	To M16 Internal Thread	To M20 Internal Thread	To M25 Internal Thread	To M32 Internal Thread	To M40 Internal Thread	To 1/2" NPT Internal Thread
M16	B/M16-M12/R		B/M16-M20/E				
M20	B/M20-M12/R	B/M20-M16/R		B/M20-M25/E			B/M20-050/TC
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				B/PG11-050/TC
PG13.5		B/PG13-M16/TC	B/PG13-M20/TC				
PG16		B/PG16-M16/TC	B/PG16-M20/TC	B/PG16-M25/TC			B/PG16-050/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				



To PG36 Internal Thread	To PG42 Internal Thread	To PG48 Internal Thread
B/PG29-PG36/E		
	B/PG36-PG42/E	B/PG36-PG48/E
B/PG42-PG36/R		B/PG42-PG48/E
B/PG48-PG36/R	B/PG48-PG42/R	



# 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
AL21/M20/A/BL	Pack of 10 Black Fittings (Straight), 20mm diameter	20mm	10	10
AL28/M25/A/BL	Pack of 10 Black Fittings (Straight), 28mm diameter	28mm	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 White Type KF PVCu, 20mm diameter	20mm	10	10
CP-AF25BS	10m White Type KF PVCu, 20mm diameter	25mm	10	10
CP-KF20BS	10m Grey Type KF PVCu, 25mm diameter	20mm	10	10
CP-KF25BS	10m Grey 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
IP66
IP66



IP Rating
IP54
IP54
IP54
IP54

IP Rating
IP66
IP66
IP66
IP66



Fixed Male Fitting	Swivel Male Fitting	IP Rating
5	5	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

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### 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

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### 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

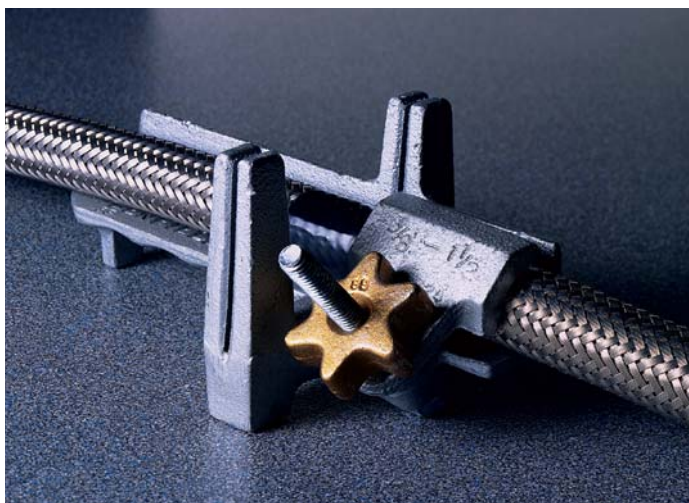
Place the conduit in the vice and secure. Move the operating handle backwards and forwards whilst applying increasing pressure to the supporting handle.

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

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#### Part No.

CUT-VICE

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### 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 & terminal blocks

## Accessories

### Cable Glands & Terminal Blocks

Introduction	6/3
--------------	-----

#### Cable Glands

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#### Terminal Blocks

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# Cable glands & terminal blocks

## 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.

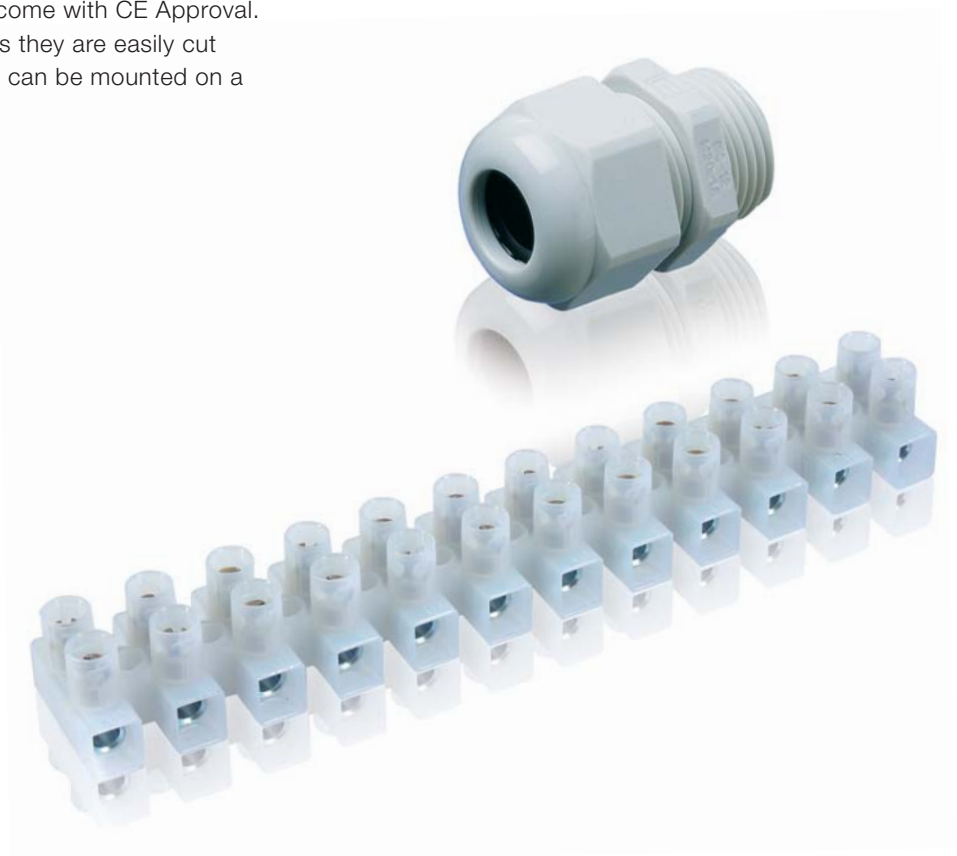
The Standard Range of “Hex” cable glands has been widely recognised as the UK “Industry Standard” for plastic cable glands for over 30 years offering excellent all-round performance. Euro Index is the next generation of Cable Glands with enhanced IP and load functionality. Also available is the Index 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.

#### Terminal Blocks

The general purpose 12 pole products are competitively priced, polyethylene terminals blocks that offer flexibility, versatility, are neutrally coloured and come with CE Approval. Available in 3, 5, 15 and 30 Amp loads they are easily cut into the required number of poles and can be mounted on a surface within an enclosure.

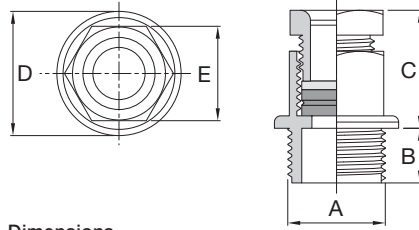


The range of terminal blocks is now available in standard 12-pole options. The terminal blocks are moulded from a specially developed Polyamide 6/66 Copolymer, which meets the arduous glow wire tests as specified in International Standard IEC 60695-2-11 and IEC 60695-2-12. Available in a range of size's, terminal blocks are ideal for use in appliances, lighting, industrial, domestic, and commercial applications and the white terminal blocks are available with raised or level base options.



# Cable glands & terminal blocks

## 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

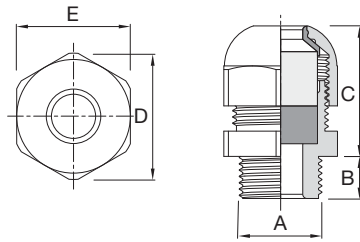
Cable Glands can be supplied assembled with Locknuts and Sealing Washers as required

# Cable glands & terminal blocks

## 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:** Red RAL 3031 (R), White RAL 9010 (W), Grey RAL 7030 (G), 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

Black part numbers listed. Contact us for details of other colours



Euro Index - Cable Gland

### Euro Index - Cable Gland

**New Generation 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

Wholesaler Packs available on this range. Pack Qty 100 Glands & Locknuts

Add WP to Part No. when ordering

#### 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

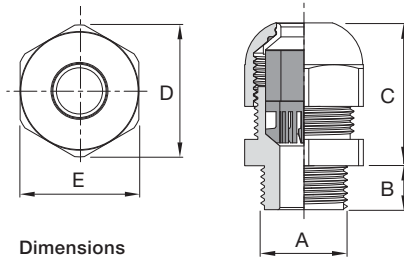
- New generation of industrial plastic cable glands
- Smaller working envelope on bulkhead or panel
- Integral claw design prevents cable twisting during installation
- Wide cable acceptance range for each gland size
- Designed to EN 50262:1999

# Cable glands & terminal blocks

## 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)



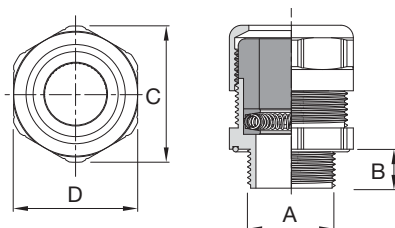
#### Key Features

- Ideal for general use
- IP68 Protection (5 bar 30mins)
- Metric



# Cable glands & terminal blocks

## 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.

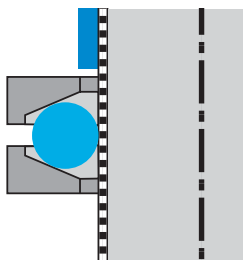
Approvals	IP Rating	Temperature Range	Halogen Free
	IP68	Static Applications: -40°C to +135°C	Yes

#### 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

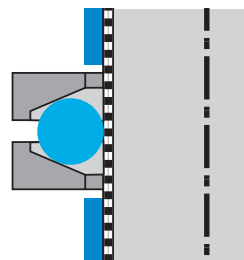
#### Type A

- Stripped Cable Sheath - Allowing the outer sheath to be completely stripped from the cable



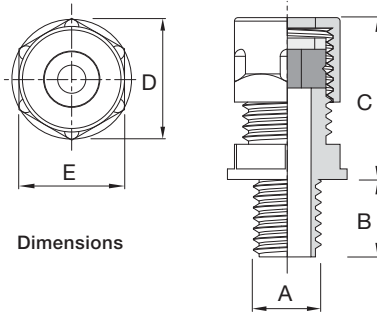
#### Type B

- Continuous Cable Sheath - Allowing for a ring of outer sheath only to be stripped



# Cable glands & terminal blocks

## 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

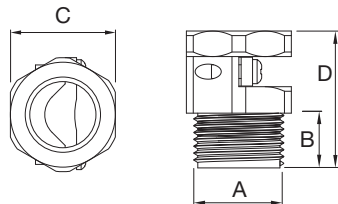
Part No.	Metric Thread A	Thread Lengths B	Cable Max Diameter	Cable Min Diameter	Gland Depth C	Gland Diameter D	Across Flats Dimension E	Pack Quantity	Sealing Washer	Locknut Part No.
238	M10	8mm	5mm	2mm	21mm	17mm	15mm	100	68	78-B
240	M10	8mm	7mm	5mm	21mm	17mm	15mm	100	68	78-B
244	M10	20mm	5mm	2mm	21mm	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)

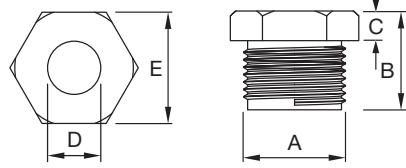


# Cable glands & terminal blocks

## 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

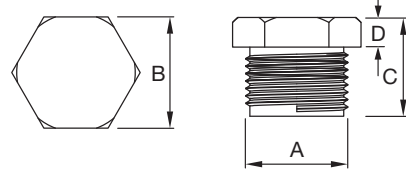
### Approvals



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

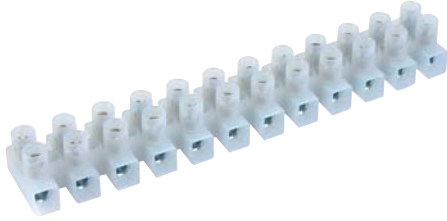
### Approvals



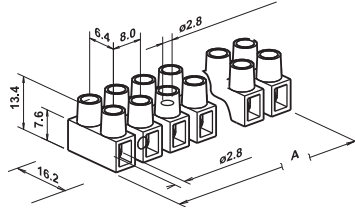
IP Rating	Temperature Range	Halogen Free	Flammability
IP66	Static Applications: -10°C to +90°C	Yes	UL94 - V2 (Nylon material)

# Cable glands & terminal blocks

## Type 1512 & 4012 polyamide - terminal blocks



Type 1512 terminal block



Dimensions

### Type 1512 Polyamide - Terminal Block

#### 2.5mm<sup>2</sup> Polyamide Terminal Blocks

Materials: Polyamide 6, Galvanised Brass Inserts & Galvanised Steel Screws / Colour: White

Part No.	Base	Wire Protector	'T' Insert	No. Poles	Width A	Rating	Pack Quantity
1512LE	Level			12 Pole	94mm	14A	50
1512/151E	Raised	Yes		12 Pole	94mm	14A	50
1512LTE	Level		Yes	12 Pole	94mm	14A	50
1512TE	Raised		Yes	12 Pole	94mm	14A	50

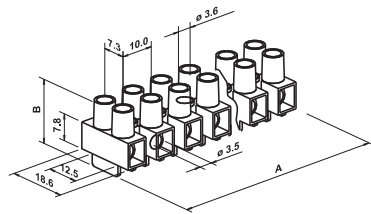
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#### Approvals

Nominal Clamping Area	Nominal Voltage	Max Ambient Temp	Fire Performance	Flammability
2.5mm <sup>2</sup>	450V	85°C	Halogen Free	UL94 - V2 (Nylon material)



Type 4012 terminal block



Dimensions

### Type 4012 Polyamide - Terminal Block

#### 4mm<sup>2</sup> Polyamide Terminal Blocks

Materials: Polyamide 6, Galvanised Brass Inserts & Galvanised Steel Screws / Colour: White

Part No.	Base	Wire Protector	'T' Insert	No. Poles	Width A	Height B	Rating	Pack Quantity
4012LE	LEVEL			12 Pole	117mm	15.0mm	25A	50
4012/401E	RAISED	Yes		12 Pole	117mm	18.5mm	25A	50
4012LT/402E	LEVEL	Yes	Yes	12 Pole	117mm	15.0mm	25A	50
4012TE	RAISED		Yes	12 Pole	117mm	18.5mm	25A	50

#### Approvals

Nominal Clamping Area	Nominal Voltage	Max Ambient Temp	Fire Performance	Flammability
4mm <sup>2</sup>	450V	85°C	Halogen Free	UL94 - V2 (Nylon material)

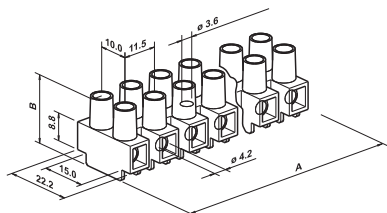


# Cable glands & terminal blocks

## Type 6012 & 10012 polyamide - terminal blocks



Type 6012 terminal block



Dimensions

### Type 6012 Polyamide - Terminal Block

#### 6mm<sup>2</sup> Polyamide Terminal Blocks

**Materials:** Polyamide 6, Galvanised Brass Inserts & Galvanised Steel Screws / **Colour:** White

Part No.	Base	Wire Protector	'T' Insert	No. Poles	Width A	Height B	Rating	Pack Quantity
6012/601E	Raised	Yes		12 Pole	133.7mm	20.8mm	32A	25
6012TE	Raised		Yes	12 Pole	133.7mm	20.8mm	32A	25
6012L/601E	Level	Yes		12 Pole	133.7mm	19.3mm	32A	25
6012LE	Level			12 Pole	133.7mm	19.3mm	32A	25

6

#### Approvals



#### Nominal Clamping Area

6mm<sup>2</sup>

#### Nominal Voltage

450V

#### Max Ambient Temp

85°C

#### Fire Performance

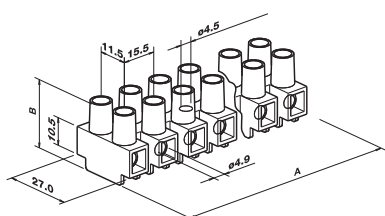
Halogen Free

#### Flammability

UL94 - V2 (Nylon material)



Type 10012 terminal block



Dimensions

### Type 10012 Polyamide - Terminal Block

#### 10mm<sup>2</sup> Polyamide Terminal Blocks

**Materials:** Polyamide 6, Galvanised Brass Inserts & Galvanised Steel Screws / **Colour:** White

Part No.	Base	Wire Protector	'T' Insert	No. Poles	Width A	Height B	Rating	Pack Quantity
10012/1001	RAISED	Yes		12 Pole	180mm	28mm	45A	10
10012L	LEVEL			12 Pole	180mm	22mm	45A	10
10012L/1001	LEVEL	Yes		12 Pole	180mm	22mm	45A	10
10012LT	LEVEL			12 Pole	180mm	22mm	45A	10
10012T	RAISED			12 Pole	180mm	28mm	45A	10
10012	RAISED			12 Pole	180mm	28mm	45A	10

#### Approvals



#### Nominal Clamping Area

10mm<sup>2</sup>

#### Nominal Voltage

450V

#### Max Ambient Temp

85°C

#### Fire Performance

Halogen Free

#### Flammability

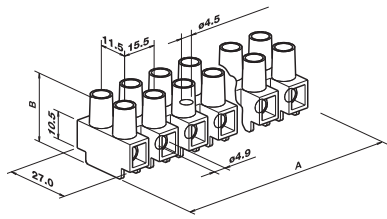
UL94 - V2 (Nylon material)

# Cable glands & terminal blocks

## Type 16012 polyamide - terminal block



Type 16012 terminal block



Dimensions

### Type 16012 Polyamide - Terminal Block

#### 16mm<sup>2</sup> Polyamide Terminal Blocks

**Materials:** Polyamide 6, Galvanised Brass Inserts & Galvanised Steel Screws / **Colour:** White

Part No.	Base	Wire Protector	'T' Insert	No. Poles	Width A	Height B	Rating	Pack Quantity
16012	Raised			12 Pole	180mm	28mm	60A	10
16012LT	Level			12 Pole	180mm	22mm	60A	10
16012/1601	Raised	Yes		12 Pole	180mm	28mm	60A	10
16012L/1601	Level	Yes		12 Pole	180mm	22mm	60A	10
16012T	Raised			12 Pole	180mm	28mm	60A	10
16012L	Level			12 Pole	180mm	22mm	60A	10

#### Approvals

Nominal Clamping Area	Nominal Voltage	Max Ambient Temp	Fire Performance	Flammability
16mm <sup>2</sup>	450V	85°C	Halogen Free	UL94 - V2 (Nylon material)









# Aquasafe

## Waterproof plugs & connectors

### Aquasafe

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In-Line Aqua-safe	7/4
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# 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 - 16A)

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	Cable Range	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

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EMI Screen System & Fire Performance	8/3
IP Ratings & Fitting Characteristics	8/4
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Cable Carrying Capacity (Wire Fill)	8/8
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# 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
BS6853 Smoke Density 3m <sup>3</sup>	0.02 ≥ A0 ≥ 0.03	0.005 ≥ A0 ≥ 0.02	0.02 A0 ≤ 0.005	Fire Hazard
Zero Halogen	•	•	•	i.e. Type S, SS, SPB
Zero Phosphorus	•	•	•	STC, SSB & SSBGS
Zero Sulphur	•	•	•	Metallic Conduit
London Underground	Concession	Approved	Approved	& Fittings
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 50 mm, accidental touch by hands
	<b>2</b>	Objects greater than 12 mm, accidental touch by fingers
	<b>3</b>	Objects greater than 2.5 mm, e.g. tools/wires
	<b>4</b>	Objects greater than 1 mm, 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

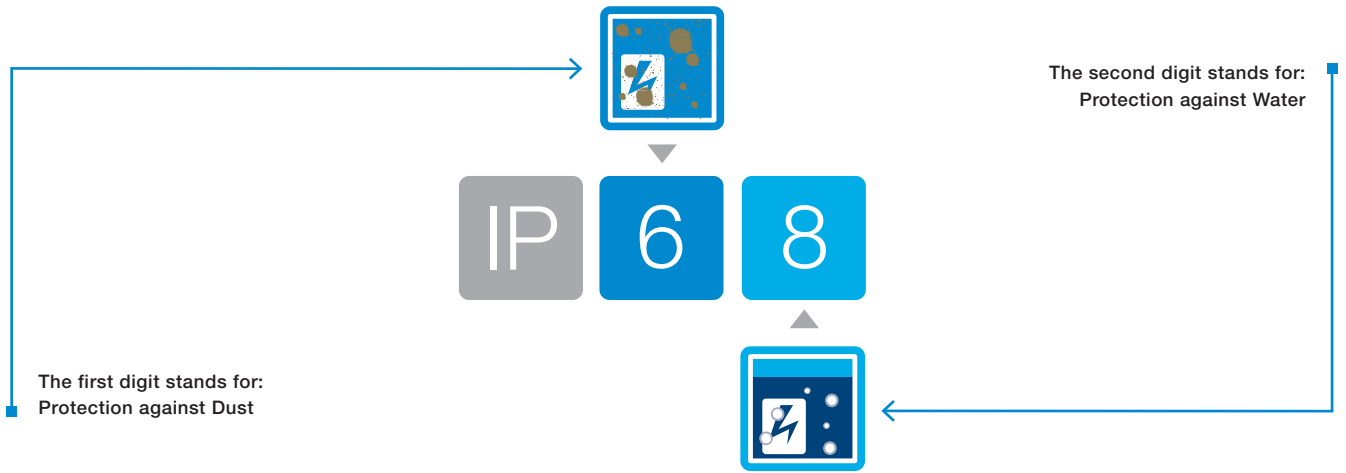
Degree of protection of equipment inside enclosures against damage from the ingress of water.

	<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 - 1 m
	<b>8</b>	Protection against long periods of immersion under a quoted pressure, e.g. 2 bar at 24 hours
	<b>9</b>	IP69k Automotive standard DIN40050 and signifies resistance to high pressure jets of water (up to 80bar) from any angle

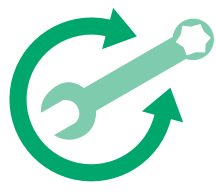
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### IP Ratings

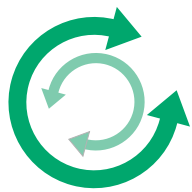
The higher the number, the greater the degree of protection; they apply ONLY to properly installed equipment.  
The numerals stand for the following:



### 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 PADL, SN	PI, PF	GP	KF, RF, SP	PP	PK	Fittings PA66	AST Elastomer Seal	S (including braid)	SS (including braid)	LHM-SP	SPL, SPUL	SPLHC	TC braid	Fittings nickel 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 PADL, SN	PI, PF	GP	KF, RF, SP	PP	PK	Fittings PA66	Elastomer Seal AST	S (including braid)	SS (including braid)	LPH-SP	SP, SPUL	SPLHC	TC braid	Fittings nickel 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 Propagating	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

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/ 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				

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## Order code classification

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SPL16/M16/A	7TCA296030R0091	3/15	SPLB25/M25/A	7TCA296100R0158	3/24	STC16/25M	7TCA296100R0204	3/19
SPL16/M16/B	7TCA296030R0092	3/25	SPLB25/M25/B	7TCA296100R0159	3/25	STC20/25M	7TCA296100R0205	3/19
SPL16/M16/C90	7TCA296030R0093	3/18	SPLB32/M32/A	7TCA296100R0161	3/24	STC25/25M	7TCA296100R0206	3/19
SPL16/M16/M	7TCA296030R0096	3/17	SPLB32/M32/B	7TCA296100R0162	3/25	STC32/10M	7TCA296100R0207	3/19
SPL16/M20/A	7TCA296030R0103	3/15	SPLB40/M40/A	7TCA296100R0164	3/24	STC40/10M	7TCA296100R0209	3/19
SPL16/M20/B	7TCA296030R0104	3/25	SPLB50/M50/A	7TCA296100R0166	3/24	STC50/10M	7TCA296100R0211	3/19
SPL16/M20/C90	7TCA296030R0105	3/18	SPLHC10/25M	7TCA296030R0330	3/14	SWINGCUT	7TCA296050R0485	5/2
SPL16/M20/M	7TCA296030R0107	3/17	SPLHC12/25M	7TCA296030R0332	3/14	SWM12	7TCA296050R0487	2/52
SPL16/PG11/M	7TCA296030R0115	3/17	SPLHC16/50M	7TCA296030R0336	3/14	SWM16	7TCA296050R0488	2/52
SPL16/PG13/M	7TCA296030R0122	3/17	SPLHC20/25M	7TCA296030R0340	3/14	SWM20	7TCA296050R0492	2/52
SPL20/050/M	7TCA296030R0130	3/17	SPLHC25/25M	7TCA296030R0345	3/14	SWM25	7TCA296050R0497	2/52
SPL20/25M	7TCA296030R0140	3/14	SPLHC32/25M	7TCA296030R0348	3/14	SWM32	7TCA296050R0502	2/52
SPL20/E	7TCA296030R0147	3/16	SPLHC40/10M	7TCA296030R0351	3/14	SWM40	7TCA296050R0506	2/52
SPL20/M20/A	7TCA296030R0157	3/15	SPLHC50/25M	7TCA296030R0357	3/14	SWM50	7TCA296050R0510	2/52
SPL20/M20/B	7TCA296030R0158	3/25	SPLHC63/25M	7TCA296030R0360	3/14	SWM63	7TCA296050R0514	2/52
SPL20/M20/C90	7TCA296030R0160	3/18	SPLHCB16/25M	7TCA296100R0169	3/24	T101010/BL	7TCA296000R2526	2/56
SPL20/M20/M	7TCA296030R0163	3/17	SPLHCB20/25M	7TCA296100R0170	3/24	T101310/BL	7TCA296000R2527	2/56
SPL20/PG16/M	7TCA296030R0174	3/17	SPLHCB20/25M	7TCA296100R0170	3/24	T101613/BL	7TCA296000R2528	2/56
SPL25	7TCA296030R0179	3/14	SPLHCB32/25M	7TCA296100R0173	3/24	T131010/BL	7TCA296000R2531	2/56
SPL25/075/M	7TCA296030R0184	3/17	SPLHCB40/10M	7TCA296100R0174	3/24	T131013/BL	7TCA296000R2532	2/56
SPL25/E	7TCA296030R0198	3/16	SPLHCB50/10M	7TCA296100R0176	3/24	T131310/BL	7TCA296000R2535	2/56
SPL25/M25/A	7TCA296030R0210	3/15	SPTC10/25M	7TCA296100R0180	3/22	T131313/BL	7TCA296000R2537	2/56
SPL25/M25/B	7TCA296030R0211	3/25	SPTC12/25M	7TCA296040R0166	3/22	T131613/BL	7TCA296000R2539	2/56
SPL25/M25/C90	7TCA296030R0212	3/18	SPTC16/25M	7TCA296100R0182	3/22	T161013/BL	7TCA296050R0529	2/56
SPL25/M25/M	7TCA296030R0215	3/17	SPTC20/25M	7TCA296100R0184	3/22	T161016/BL	7TCA296000R2541	2/56
SPL25/PG21/M	7TCA296030R0228	3/17	SPTC25/25M	7TCA296100R0185	3/22	T161116/BL	7TCA296000R2543	2/56
SPL32/100/M	7TCA296030R0234	3/17	SPTC32/10M	7TCA296100R0186	3/22	T161313/BL	7TCA296000R2544	2/56
SPL32/25M	7TCA296030R0238	3/14	SPTC40/10M	7TCA296100R0187	3/22	T161316/BL	7TCA296050R0530	2/56
SPL32/E	7TCA296030R0243	3/16	SPTC50/10M	7TCA296100R0188	3/22	T161613/BL	7TCA296000R2546	2/56
SPL32/M32/A	7TCA296030R0252	3/15	SPUL16/50M	7TCA296030R0366	3/15	T161616/BL	7TCA296000R2547	2/56
SPL32/M32/B	7TCA296030R0253	3/25	SPUL20/50M	7TCA296030R0367	3/15	T162116/BL	7TCA296000R2550	2/56
SPL32/M32/C90	7TCA296030R0254	3/18	SPUL25/25M	7TCA296030R0368	3/15	T211016/BL	7TCA296160R0102	2/56
SPL32/M32/M	7TCA296030R0256	3/17	SPUL32/25M	7TCA296030R0370	3/15	T211021/BL	7TCA296000R2551	2/56
SPL32/PG29/M	7TCA296030R0264	3/17	SPUL40/10M	7TCA296030R0371	3/15	T211316/BL	7TCA296000R2554	2/56
SPL40/10M	7TCA296030R0267	3/14	SPUL50/25M	7TCA296030R0375	3/15	T211321/BL	7TCA296000R2555	2/56
SPL40/125/M	7TCA296030R0268	3/17	SPUL63/10M	7TCA296030R0376	3/15	T211613/BL	7TCA296000R2557	2/56
SPL40/E	7TCA296030R0274	3/16	SS10/25M	7TCA296120R0005	3/6	T211616/BL	7TCA296000R2558	2/56
SPL40/M40/M	7TCA296030R0283	3/17	SS12/25M	7TCA296120R0008	3/6	T211621/BL	7TCA296000R2559	2/56
SPL40/PG36/M	7TCA296030R0287	3/17	SS16/25M	7TCA296120R0014	3/6	T212113/BL	7TCA296000R2560	2/56
SPL50/10M	7TCA296030R0289	3/14	SS20/25M	7TCA296120R0020	3/6	T212116/BL	7TCA296000R2561	2/56
SPL50/150/M	7TCA296030R0290	3/17	SS25/25M	7TCA296120R0026	3/6	T212121/BL	7TCA296000R2562	2/56
SPL50/E	7TCA296030R0297	3/16	SS32/25M	7TCA296120R0032	3/6	T281021/BL	7TCA296000R2576	2/56
SPL50/M50/M	7TCA296030R0305	3/17	SSB12/25M	7TCA296100R0190	3/20	T281028/BL	7TCA296000R2577	2/56
SPL50/PG42/M	7TCA296030R0308	3/17	SSB16/25M	7TCA296100R0191	3/20	T281321/BL	7TCA296000R2578	2/56
SPL63/25M	7TCA296030R0313	3/14	SSB20/25M	7TCA296100R0192	3/20	T281621/BL	7TCA296000R2581	2/56



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T281628/BL	7TCA296000R2582	2/56
T282121/BL	7TCA296000R2583	2/56
T282128/BL	7TCA296000R2584	2/56
T282828/BL	7TCA296000R2587	2/56
T341634/BL	7TCA296000R2589	2/56
T342128/BL	7TCA296000R2591	2/56
T342134/BL	7TCA296000R2592	2/56
T343434/BL	7TCA296000R2596	2/56
XF12/30M	7TCA296060R0095	2/49
XF12/M16/D	7TCA296060R0097	2/50
XF16/30M	7TCA296060R0101	2/49
XF16/M16/C90/BL	7TCA296060R0104	2/50
XF16/M16/D	7TCA296060R0105	2/50
XF16/M20/D	7TCA296060R0107	2/50
XF20/30M	7TCA296060R0112	2/49
XF20/M20/C90/BL	7TCA296060R0115	2/50
XF20/M20/D	7TCA296060R0116	2/50
XF25/30M	7TCA296060R0121	2/49
XF25/M25/C90/BL	7TCA296060R0124	2/50
XF25/M25/D	7TCA296060R0125	2/50
XF32/30M	7TCA296060R0131	2/49
XF32/M32/C90/BL	7TCA296060R0134	2/50
XF32/M32/D	7TCA296060R0135	2/50
XF40/30M	7TCA296060R0140	2/49
XF40/M40/D	7TCA296060R0144	2/50
XF50/30M	7TCA296060R0148	2/49
XF50/M50/D	7TCA296060R0151	2/50
Y101010/BL	7TCA296000R2603	2/57
Y101013/BL	7TCA296000R2605	2/57
Y131010/BL	7TCA296000R2608	2/57
Y131310/BL	7TCA296000R2612	2/57
Y131313/BL	7TCA296000R2614	2/57
Y161310/BL	7TCA296000R2618	2/57
Y161313/BL	7TCA296000R2621	2/57
Y161610/BL	7TCA296000R2623	2/57
Y161613/BL	7TCA296000R2625	2/57
Y211010/BL	7TCA296000R2626	2/57
Y211310/BL	7TCA296000R2627	2/57
Y211313/BL	7TCA296000R2628	2/57
Y211610/BL	7TCA296000R2629	2/57
Y211613/BL	7TCA296000R2630	2/57
Y211616/BL	7TCA296000R2631	2/57
Y212110/BL	7TCA296000R2633	2/57
Y212113/BL	7TCA296000R2635	2/57
Y212116/BL	7TCA296000R2636	2/57
Y282113/BL	7TCA296000R2645	2/57
Y282116/BL	7TCA296000R2646	2/57
Y282121/BL	7TCA296000R2647	2/57
Y282810/BL	7TCA296000R2650	2/57
Y282813/BL	7TCA296000R2651	2/57
Y282816/BL	7TCA296050R0537	2/57
Y282821/BL	7TCA296000R2652	2/57
Y282828/BL	7TCA296000R2653	2/57
Y343416/BL	7TCA296000R2658	2/57

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Y343421/BL	7TCA296000R2659	2/57
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# Notes

A series of horizontal dotted lines for taking notes, spanning the width of the page.



# Contact us

## **Adaptaflex**

UK Head Office

Station Road

Coleshill

Birmingham B46 1HT

Tel: +44 (0) 1675 468 222

Fax: +44 (0) 1675 464 930

UK Sales Tel: +44 (0) 1675 468 200

E-Mail: [sales@adaptaflex.com](mailto:sales@adaptaflex.com)

[www.adaptaflex.com](http://www.adaptaflex.com)

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