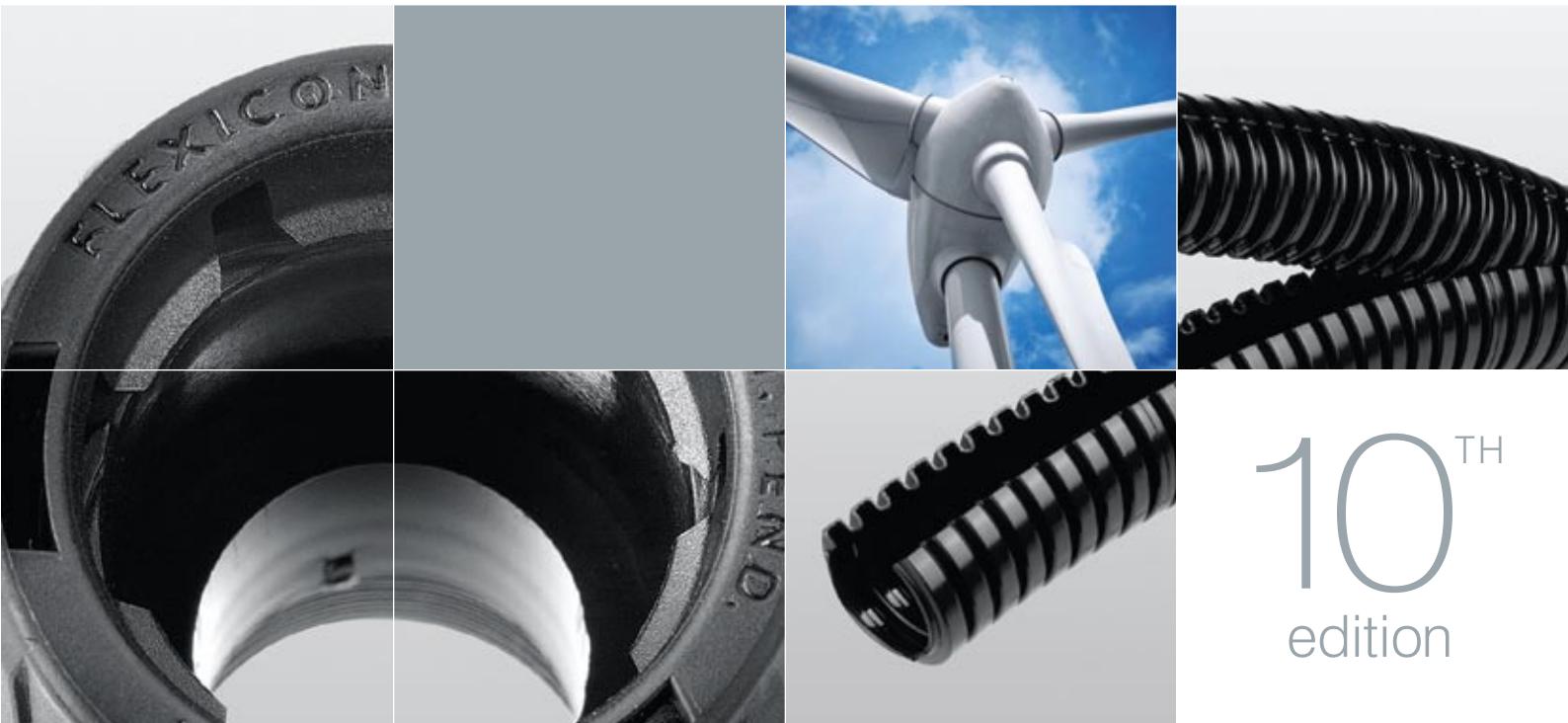


# FLEXICON

FLEXIBLE CONDUIT SOLUTIONS



10<sup>TH</sup>  
edition

## product & solutions guide

THE POWER IN CABLE MANAGEMENT



# foreword

## **Welcome to the 10th edition of our Product & Solutions Guide for Flexible and Pliable Conduit systems.**

Featuring many new products, we have once again demonstrated our commitment to innovation and we can now boast over 47 different conduit systems to choose from.

We have experienced major growth in both home and overseas markets through our commitment and dedication and we are certainly the brand you can rely on.

We continue to operate as an independently owned family business. Designing and manufacturing Cable Management products in the UK for a wide range of markets including the Construction Industry, Rail, Marine, Defence, Machinery & OEM's to name but a few. We can now add solutions for Hazardous Areas to this list following the introduction of our new range of EXD flameproof glands.

Our mission is to continually develop products that are easy to use and widely available offering real value, through our extensive network of selected distributors, agents and stockists.

We hope you like our new look and we look forward to meeting our customers requirements and exceeding your expectations in the future.



**Adrian Poulton**  
Managing Director

**Visit our website to keep up to date with all our latest developments...**

**Flexicon UK** [www.flexicon.uk.com](http://www.flexicon.uk.com)

**Flexicon Pty** [www.flexiconaustralia.com](http://www.flexiconaustralia.com)

**Flexicon Europe** [www.flexicon.eu.com](http://www.flexicon.eu.com)

**Flexicon USA** [www.flexicon.us.com](http://www.flexicon.us.com)

**Griflex** [www.griflex.com](http://www.griflex.com)

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# Flexicon group introduction

Utilising the latest technologies in production and automation, our manufacturing expertise and efficiencies allow us to be competitive in todays Global marketplace.

With a comprehensive stock holding we strive to deliver service excellence to meet our customers demands faster, ensuring you can count on us.

## Flexicon offers



Flexicon continues to invest in its UK based headquarters and manufacturing facilities, ensuring excellence, innovation and assurance are second to none.

Committed to exceeding customer expectations when it comes to Flexible Conduit, Flexicon continue to innovate in product development, supported by exceptional levels of service and support.

Flexicon, leading the way in today's global marketplace.

- Independently tested products that comply with relevant global standards
- User friendly products offering time saving innovations
- Quality products from the global experts when it comes to flexible conduit

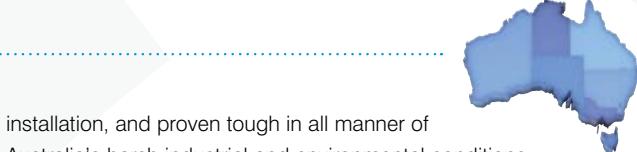
- A true cable management solution whether its standard products or bespoke made to order assemblies
- Global outlets serving the industry
- Progressive and expanding product portfolio

## Flexicon Pty

After only eight years in Australia, Flexicon are seen as market leader and the trade's first choice, with recognised superior quality, value and service.

Many of the Flexicon range of products provide unique features, setting them apart from the rest, saving installation time and reducing lifetime costs with reduced maintenance and replacement.

A prime example is Flexicon's long-life nickel plated brass fittings, precision manufactured to enable ease of assembly and



installation, and proven tough in all manner of Australia's harsh industrial and environmental conditions.

FLEXICON also manufacture flexible metallic conduit, which as with all Flexicon product, is manufactured and tested to meet and exceed the high AS/NZ standards giving total peace of mind.

Australia's trade chooses Flexicon – ultimate quality – always value and service.

## Griflex

Griflex is a leading manufacturer providing hose & ducting solutions for the UK and overseas.

Our products are available in a range of sizes from ¼" to 10" internal diameter and are intended for use in a diverse range of applications. These include the suction and delivery of water, oil, sewage, slurries, powders and the conveyance of liquids and gasses in factory air lines, pneumatic equipment & general workshop use.

As part of an ongoing plan, considerable investment has taken place in our UK based manufacturing facility ensuring that Griflex utilise the latest production technologies. As a result we have seen improvements in efficiency and the development of new products broadening our product range.



### Products include:

- Springflex™ clear/wire reinforced suction hose
- Unreinforced tubing & braided PVC hose
- PVC spiral reinforced suction & delivery hose
- Wire reinforced Vacuflex ducting
- PVC & Polyurethane ducting

For further information on the Griflex range of hose, tube & ducting please call **+44 1675 464803** or email [sales@griflex.com](mailto:sales@griflex.com)



# Flexicon a global presence

- Excellence through engineering
- Progression through innovation
- Assurance through competence



[www.flexicon.us.com](http://www.flexicon.us.com) | [www.flexicon.uk.com](http://www.flexicon.uk.com) | [www.flexicon.eu.com](http://www.flexicon.eu.com) | [www.flexiconaustralia.com](http://www.flexiconaustralia.com)

**Flexicon - When quality, safety and value counts**

**Our product offering has been developed and tested to the most demanding quality standards and have been awarded quality approvals and compliance worldwide;**



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We offer you peace of mind when it comes to your supply chain for flexible conduit and accessories. Are you confident your current solution has been independently tested and offers compliance to local and global standards?

**NEW**

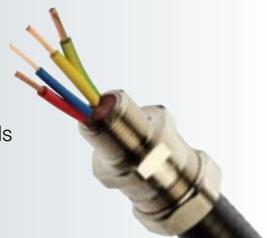
# what's new?

As a progressive company we are continually investing in new product development to expand our range hence offering you more choice.

**We have added nearly “500” new products since our last Catalogue.**  
A selection of these products are highlighted below;

## EXD - Flameproof Barrier Glands

- A true conduit system solution for Hazardous areas
- Independently tested and approved to the latest standards
- EX d, EX e and EX t approved applications with both ATEX and IECEx certification



PAGE 30

## Ultrascreen®

- EMC screening applications
- Independently tested and approved
- High tensile strength
- High IP ratings



PAGE 33

## Internally Braided Liquid Tight

- High mechanical strength
- High IP ratings
- High flexibility
- EMC Screening performance



PAGE 28

## FPA & FPAX Dividers

- Fast fit reducing divider
- Rounded internal corners facilitates easy pull through of cables
- Mounting lugs for secure fixing
- All the benefits of the FPA/FPAX connector



PAGE 66

## Liquid Tight IP69K fittings

- Widest range of Liquid Tight fittings
- Superior product performance as standard – washdown and steam cleaning applications
- Metallic and non-metallic conduit solutions for IP66, IP67, IP68 & IP69K applications



PAGE 26

## White conduits range

- Aesthetic offer
- Simple and easy to fit
- Complete solution of conduits, fittings and accessories in white



PAGE 69

## FPU and LTPPU - polyurethane coated conduits

- High fatigue life
- High abrasion resistance
- Good low temperature performance
- Halogen Free



PAGE 24 & 28

## Cable glands

- Provides cable strain relief
- Can be used with 20 conduit systems
- Nickel plated brass fittings
- Can provide enhanced IP rating on cable inside the conduit



PAGE 43

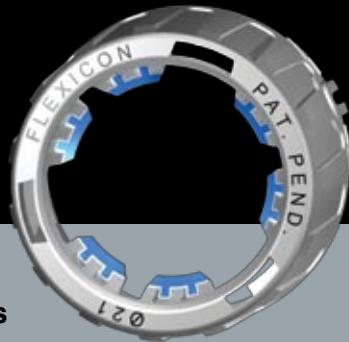
# new product focus

## FPA & FPAX

the *ultimate* range  
of nylon PA66 fittings



- **Fast fit less than 3 seconds**
- **High tensile strength 70kg**
- **High IP rating IP66 + IP67 + IP68 (2 bar) + IP69K**



### 1 The *Ultimate* Security

#### Safest fitting

All round teeth provide anti vibration protection together with a high pull off strength, i.e. 40kg with FPAS21 conduit and 70kg with FPAH21 conduit

### 2 The *Ultimate* Connection

#### Performance you can rely on

Ingress Protection

- FPA IP66
- FPAX IP66 + IP67+ IP68(2Bar)+IP69K

### 3 The *Ultimate* Simplicity & Speed

#### Fast fit

Push fit connection suitable for fine & coarse pitch Nylon and Polypropylene Conduits. Can be fitted in less than 3 seconds.

### 4 The *Ultimate* Range

#### 10mm up to 67mm in black or grey

13 conduit sizes with Metric, PG, NPT and UNEF thread variants available as well as Nickel plated brass threads

### 5 The *Ultimate* in Convenience

#### Ready to install

Nylon metric threads supplied with glass reinforced nylon locknuts. FPAX fittings supplied with face sealing washers

### 6 The *Ultimate* Removal facility

#### Reduce whole life costs

Can be removed using a screwdriver if required

**The *Ultimate* Choice!**

# Solutions for Construction

## Market Segments

Flexible conduit is commonly used for the protection and containment of vulnerable electrical cables, wiring and fibre optics. It is an extremely effective form of cable management, available in a variety of systems, which can cope with a diverse range of environmental factors and operating conditions.



Whether it's for conventional power cables or the latest cable specification for data networking, flexible conduit offers the ideal solution for cable routing and protection for all building types.

Typical products include



**FU**  
products & systems



**FSU**  
products & systems



**LFHU**  
products & systems



**FP**  
nylon products and systems



**Flexilok**  
nylon products and systems

Applications include

- Facility wiring
- Underfloor wiring distribution – home run and tap off units
- CCTV / Access Control / Exterior Lighting
- BMS's (Building Management Systems)
- Structured Cabling networks
- Machine and process equipment

Benefits

- Products are quick and easy to install
- Inherent flexibility for future proofing installations
- Protection for critical cabling to provide continuity of supply

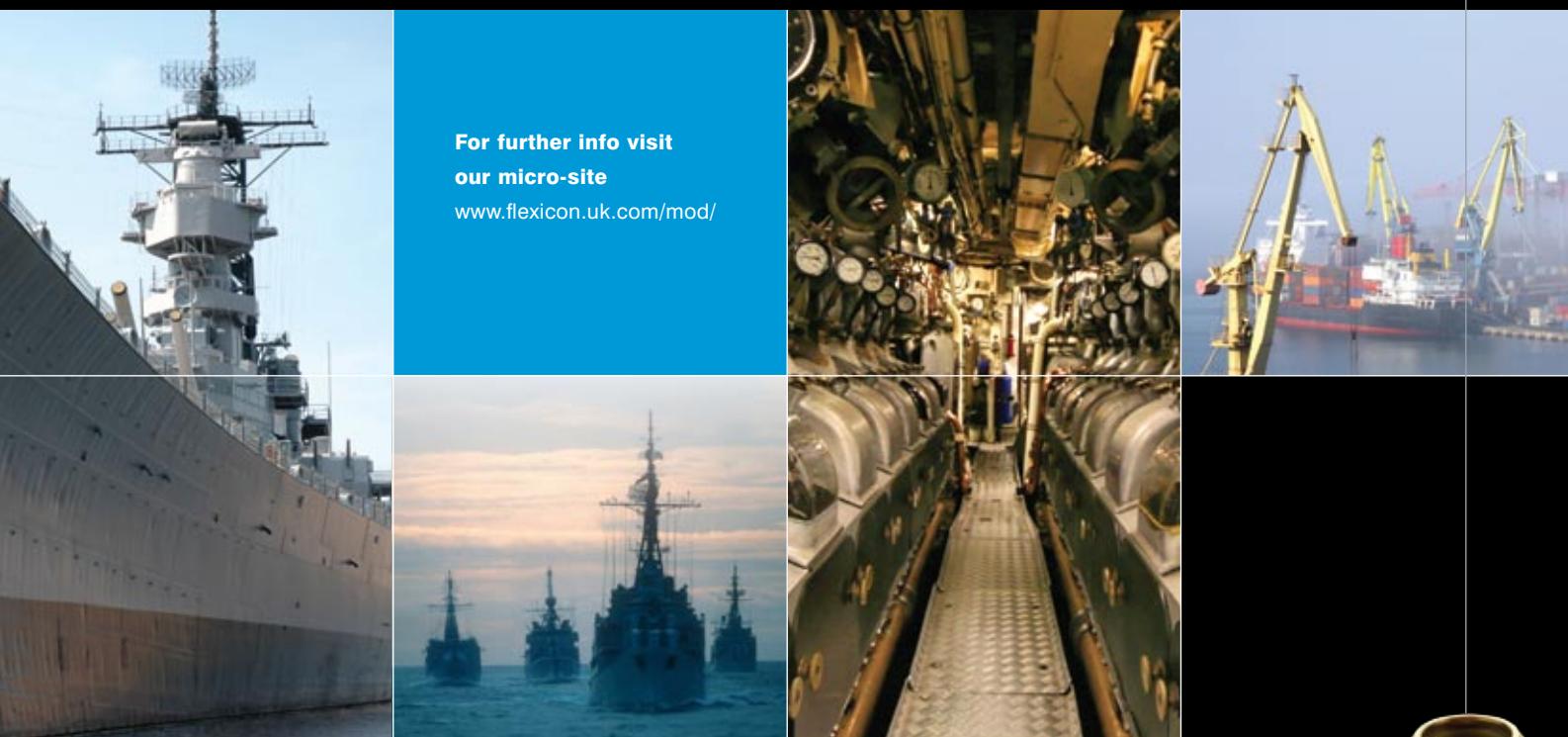
Industry Approvals



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# Solutions for Defence & Marine



For further info visit  
our micro-site  
[www.flexicon.uk.com/mod/](http://www.flexicon.uk.com/mod/)

Flexicon offer an expanding range of products for this demanding sector. Requiring protection of critical systems this sector demands reliability within the severest of environments.

Typical products include



**ULTRASCREEN®**  
products & systems



**FP**  
High impact nylon products & systems



**SS**  
Stainless Steel products & systems



**LT**  
Liquid Tight systems



**EXD**  
Hazardous area products



**Braided**  
products and systems

Applications include

- Naval Vessels
- Fighting Vehicles
- Weapon systems
- Operation & system control rooms
- Portable Buildings
- Ship and Dock Yards
- Ship/Boat engine rooms



Benefits

- High performance products offering superior tensile strength
- Designed to meet the strictest standards – EMC testing, vibration and shock standards
- Swivel type UNEF fittings as standard to eliminate cable twisting

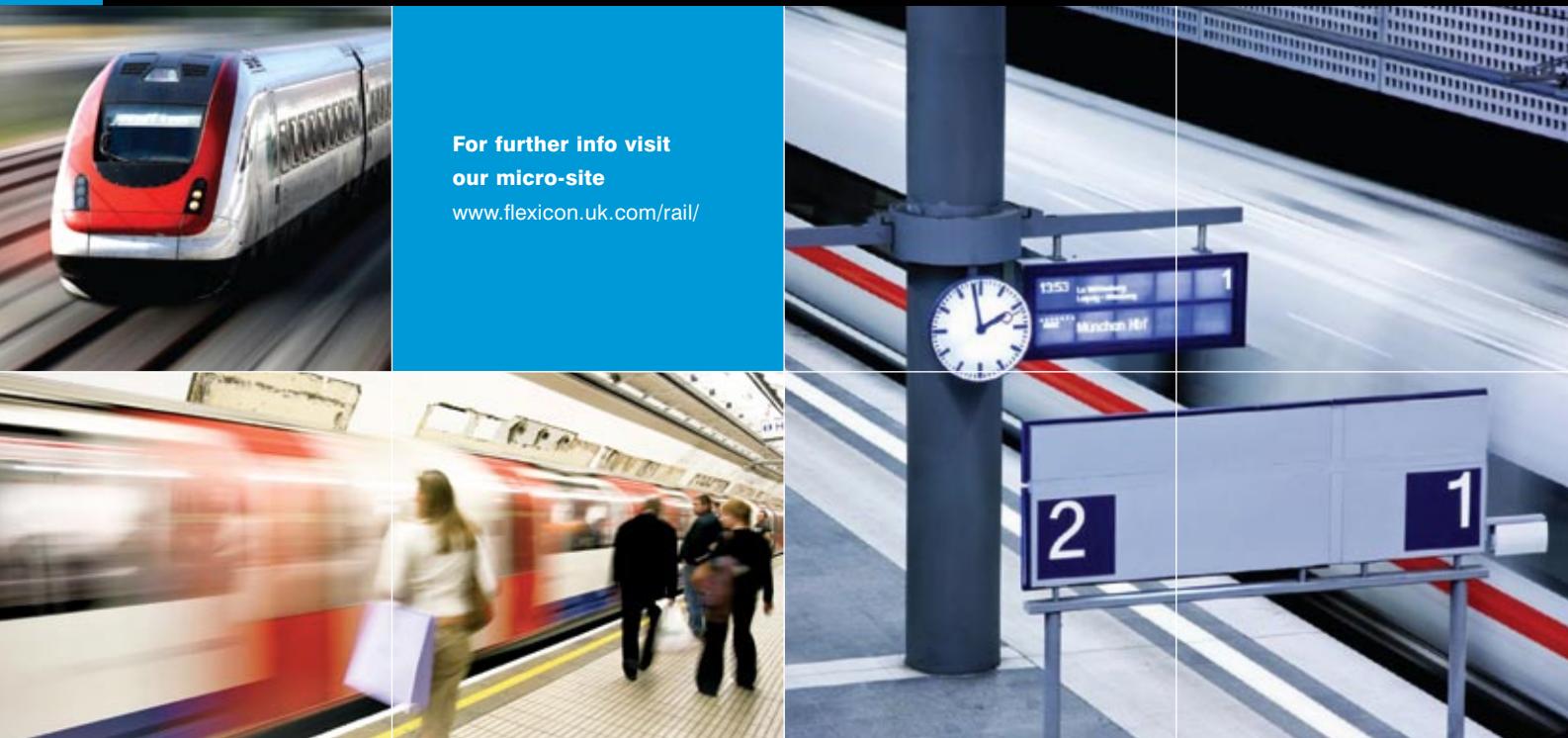
Industry Approvals



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# Solutions for Rail



Flexicon offer a range of products for this technically demanding sector. IP ratings, tensile strength characteristics, weight, corrosion resistances, fire performance properties and operating temperature ranges are all factors to consider.

Typical products include



**LFH**

Low Fire Hazard products & systems



**FP**

High impact nylon products & systems



**SS**

Stainless Steel products and systems



**LT**

Liquid Tight systems



**FPA(X)**

Up to IP69K Ingress Protection



**Braided**

Products and systems

Applications include

- Infrastructure – Tunnels and stations
- Signalling
- Telecoms
- Passenger Information Systems
- Points Machines
- Lighting
- OEM solutions for rolling stock
- Rail Carriage construction (interior / exterior / inter carriage connection) metro and trolleybuses
- EMC on safety systems
- Equipment monitoring
- Security systems - CCTV/Monitoring
- HVAC

Benefits

- High performance products offering superior tensile and impact / compression strength
- Designed to meet the strictest standards – EMC testing / vibration
- Wide product range to meet all applications
- Independently tested to the relevant standards
- Vibration proof
- Anti-tamper

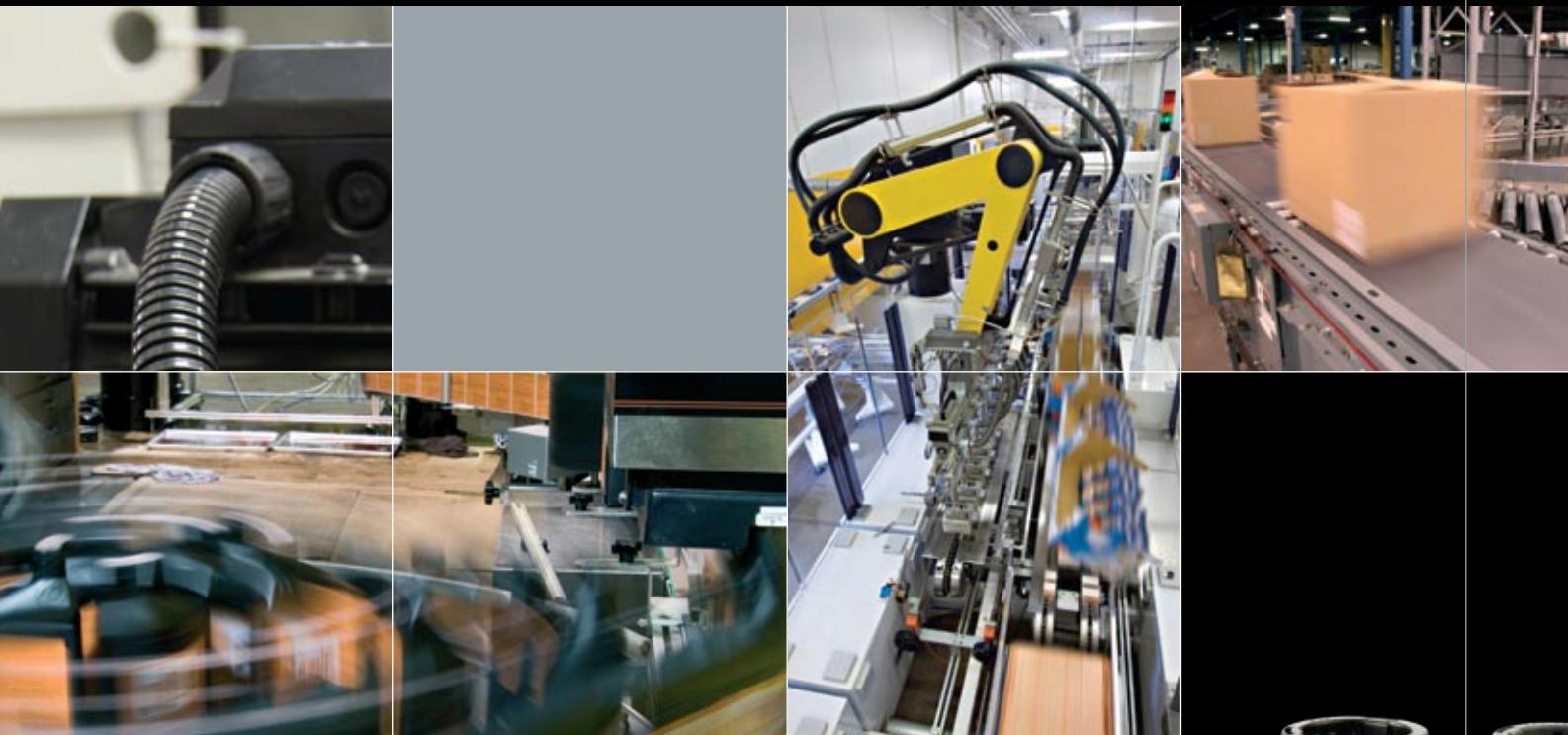
Industry Approvals



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# Solutions for Manufacturing



This sector demands reliability due to the potentially significant cost implications of downtime. A constant strive for efficiency often results in faster speeds and more intense usage. Mechanical strength, flexibility, abrasion resistance and the ability to withstand repeated movements are typical requirements.

Typical products include



**FP**

Nylon products & systems



**LT**

Liquid Tight systems



**LPC**

Spiral reinforced products and systems

**NEW**



**EXD**

Hazardous area products



**Braided**

Products and systems

Applications include

- CNC Machines
- Wood / Metal working machines
- Welding Machines
- Air conditioning units
- Robotics
- Conveyer systems
- Factory automation



Benefits

- Wide product range to meet all applications
- Swivel type fittings to avoid cable twisting

Industry Approvals



# Solutions for Hazardous Areas



**For further info visit  
our micro-site**  
[www.flexicon.uk.com/hazardous/](http://www.flexicon.uk.com/hazardous/)

In certain sectors of industry, flammable substances such as gases, vapours, mist or dust can escape during manufacture, processing, storage and transport thus potentially creating an explosive atmosphere. Our new range of high performance products have been designed for highly demanding applications and meet the latest relevant ATEX and IECEx requirements.

Typical products include



**LT**

Liquid Tight Conduits

**EXD**

Flameproof - Hazardous Area Barrier glands

Applications include

- On-shore and off-shore petrochemical and refining plants
- Distilleries
- Paint Spraying Plants
- Flour Mills
- Woodworking Machine Plants
- Water Industry / Sewage treatment
- Petrol forecourt environments
- Pharmaceutical industry

Benefits

- Designed to meet the strictest standards
- Independently tested to the relevant standards

Industry Approvals



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# Solutions for Tailored Applications



Flexicon can offer a bespoke design service should you not be able to find what you are looking for. We have the skills, knowledge and experience to develop specials with minimal lead times providing you the choice you deserve

Typical products include

- Different coloured conduits
- Bespoke lengths
- Alternative thread combinations
- Bulk packaging
- Conduit with draw wire
- Assemblies

Contact us to discuss your requirements

**Email: sales@flexicon.uk.com**

**Tel: +44(0)1675 466900**

**or visit our website and use  
the "contact us" facility**

**www.flexicon.uk.com**

Applications include

- Medical
- Telecoms
- Renewable energy
- Utilities
- Rail
- Processing plants
- Security



Benefits

- Custom made solutions to meet your exact requirements
- Reduce your installation times





With over 26 different metal conduit systems to select from there is sure to be a system to meet your application. Choose from conduit systems ranging from 10mm to 75mm in size, manufactured in galvanised steel or stainless steel and with or without a range of coverings/overbraiding.



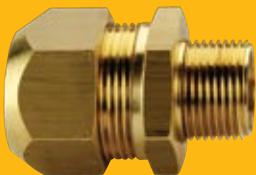
#### Key Features

- High compression strength
- High pull off strength
- Wide temperature tolerances
- High impact strength
- EMC screening performance
- High IP rating - up to IP69K

#### Key Benefits

- Suitable for a range of applications including heavy duty
- Maintains integrity of the system in extreme applications
- Suitable for a diverse range of operating environments
- Can withstand impact forces such as falling objects
- Protection against electromagnetic interference
- No risk of water or dust ingress





# metallic conduit & fittings



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# metallic selection application guide

Page number	conduit system	IP rating available	compression strength kg/100mm 20mm nominal size	pull-off strength kg 20mm nominal size	minimum bend radius 20mm nominal size	colours	
20	<b>FU</b> galvanised steel		IP40	350	120	45	zinc
20	<b>SSU</b> stainless steel, grade 316		IP40	400	170	45	stainless steel
22	<b>FSU</b> galvanised steel, pvc coated		IP54, IP65	350	120	45	black, grey orange
22	<b>FNU</b> galvanised steel, nylon coated		IP54, IP65	350	120	45	black
24	<b>L FHU</b> galvanised steel, LFH coated		IP54, IP65	350	120	45	black
24	<b>FPU</b> galvanised steel, polyurethane coated		NEW IP54, IP65	350	120	45	black
26	<b>LTP</b> galv steel, pvc coated, liquid tight		IP66, IP67, IP68, IP69K	400	130	65	black, grey orange
26	<b>LTPHC</b> galv steel, thermoplastic rubber, liquid tight		IP66, IP67, IP68, IP69K	400	130	65	black
26	<b>LTPUL</b> galv steel, pvc coated, liquid tight		IP66, IP67, IP68, IP69K	500	160	90	black
26	<b>LTPE</b> galv steel, pvc coated, liquid tight		NEW IP66, IP67, IP68, IP69K	350	120	65	black
28	<b>LTPSS</b> stainless steel, pvc coated, liquid tight		IP66, IP67, IP68, IP69K	400	130	65	black
28	<b>LTPPU</b> galv steel, polyurethane coated, liquid tight		NEW IP66, IP67, IP68, IP69K	400	130	65	black
28	<b>LTBRDP</b> galv steel, braided core, pvc coated, liquid tight		NEW IP66, IP67, IP68, IP69K	400	130	65	black
28	<b>LTBRDLFH</b> galv steel, braided core, LFH coated, liquid tight		NEW IP66, IP67, IP68, IP69K	400	130	130	black
32	<b>FL</b> galvanised steel, pliable		IP40	300	30	35	zinc
32	<b>FLP</b> galvanised steel, pvc coated, pliable		IP66, IP67, IP68,	300	50, 100	35	black
33	<b>LFHP</b> galvanised steel, LFH coated, pliable		NEW IP66, IP67, IP68,	570	50, 100	40	black
34	<b>FSB</b> galv steel, pvc, galv steel overbraid		IP54, IP65	350	120, 300	45	zinc
34	<b>L FHUBRD</b> galv steel, LFH coated, SS316 overbraid		IP54, IP65	350	120, 300	45	stainless steel
36	<b>FB</b> galvanised steel, galv steel overbraid		IP40	350	120	45	zinc
36	<b>FUSSB</b> galvanised steel, SS316 overbraid		IP40	350	120	45	stainless steel
38	<b>LTPBRD</b> galv steel, rubber coated, SS316 overbraid		IP66, IP67, IP68, IP69K	400	350	65	stainless steel
40	<b>FPRSS</b> PA6 corrugated, SS316 overbraid		IP67	75	100	45	stainless steel
40	<b>FRTC</b> PA6 corrugated, tinned copper overbraid		IP67	75	75	45	tin
40	<b>FPISS</b> PA12 corrugated, SS316 overbraid		IP67	45	100	45	stainless steel
40	<b>FPIHSS</b> PA12 corrugated, SS316 overbraid		IP67	60	100	45	stainless steel



78 accessories



82

contractor packs



86

chemical resistance

# metallic conduit and fittings

high fatigue life	temperature range	flexible	pliable	low fire hazard	halogen free	self extinguishing	EMC screening @1MHz	high abrasion resistance	high UV resistance	
	-100°C to +300°C	●		●	●	●		●		<b>FU</b> galvanised steel
	-100°C to +400°C	●		●	●	●		●	●	<b>SSU</b> stainless steel, grade 316
●	-15°C to +70°C	●				●				<b>FSU</b> galvanised steel, pvc coated
	-40°C to +120°C	●			●	●		●		<b>FNU</b> galvanised steel, nylon coated
	-25°C to +90°C	●		●	●	●				<b>LFHU</b> galvanised steel, LFH coated
●	-40°C to +80°C	●			●	●		●		<b>FPU</b> galvanised steel, polyurethane coated
	-20°C to +105°C	●				●			●	<b>LTP</b> galv steel, pvc coated, liquid tight
	-45°C to +135°C	●			●	●			●	<b>LTPHC</b> galv steel, thermoplastic rubber, liquid tight
	-15°C to +75°C	●				●			●	<b>LTPUL</b> galv steel, pvc coated, liquid tight
	-15°C to +70°C	●				●			●	<b>LTPE</b> galv steel, pvc coated, liquid tight
	-20°C to +105°C	●				●			●	<b>LTPSS</b> stainless steel, pvc coated, liquid tight
●	-40°C to +80°C	●			●	●		●		<b>LTPPU</b> galv steel, polyurethane coated, liquid tight
	-20°C to +105°C	●				●	60dB		●	<b>LTBRDP</b> galv steel, braided core, pvc coated, liquid tight
	-25°C to +90°C	●		●	●	●	60dB			<b>LTBRDLFH</b> galv steel, braided core, LFH coated, liquid tight
	-40°C to +120°C		●	●	●	●	70dB			<b>FL</b> galvanised steel, pliable
	-15°C to +70°C		●			●	70dB		●	<b>FLP</b> galvanised steel, pvc coated, pliable
	-25°C to +90°C		●	●	●	●	70dB			<b>LFHP</b> galvanised steel, LFH coated, pliable
	-15°C to +70°C	●				●	55dB	●		<b>FSB</b> galv steel, pvc, galv steel overbraid
	-25°C to +90°C	●		●	●	●	49dB	●		<b>LFHUBRD</b> galv steel, LFH coated, SS316 overbraid
	-100°C to +300°C	●		●	●	●	55dB	●		<b>FB</b> galvanised steel, galv steel overbraid
	-100°C to +300°C	●		●	●	●	49dB	●		<b>FUSSB</b> galvanised steel, SS316 overbraid
	-45°C to +135°C	●			●	●	49dB	●	●	<b>LTPBRD</b> galv steel, rubber coated, SS316 overbraid
	-40°C to +120°C	●		●	●	●	49dB	●	●	<b>FPRSS</b> PA6 corrugated, SS316 overbraid
	-40°C to +120°C	●		●	●	●	67dB			<b>FRTC</b> PA6 corrugated, tinned copper overbraid
●	-50°C to +110°C	●			●	●	49dB	●	●	<b>FPISS</b> PA12 corrugated, SS316 overbraid
●	-50°C to +110°C	●		●	●	●	49dB	●	●	<b>FPIHSS</b> PA12 corrugated, SS316 overbraid





# metallic selection guide

IP66   IP67   IP68   IP69K



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- UK manufactured products to the highest standards
- Highest IP performance for liquid tight fittings as standard
- Highest tensile strength performance fittings
- Stainless Steel variants available
- Vibration tested for secure installations

- Simple construction for ease of installation - Fixed and Swivel versions
- Multiple thread variations available - Metric, PG, NPT
- Tested and approved to the latest National and International Standards
- Widest choice whatever your application

Fixed External	Swivel	Fixed Internal	Plain Hole	Stainless Steel
IP40 IP54	IP40 IP54	IP40 IP54	IP40 IP54	IP40
<a href="#">See Pg 20, 21, 22, 23, 24 &amp; 25</a>				<a href="#">See Pg 20 &amp; 21</a>

Insert	Cable Gland	Clips	Locknuts
<a href="#">See Pg 78 &amp; 79</a>			



IP66 IP67 IP68 IP69K

## Liquid Tight Fittings



See Pg 26 & 27

IP66 IP67 IP68 IP69K

IP40 IP66 IP67

IP66 IP67 IP68 IP69K

## Liquid Tight Stainless Steel



See Pg 29

IP66 IP67 IP68 IP69K

LTP Fitting with Strain Relief

EXD Flameproof Barrier Glands

FL Straight

FLP Straight

ULTRASCREEN® External

ULTRASCREEN® Internal



See Pg 43



See Pg 31

IP40 IP54



See Pg 32 & 33

IP65 IP66 IP67 IP68 IP69K



IP66 IP67 IP68 IP69K

## Braided Fittings



See Pg 34 & 36

## Braided Compression Fittings



See Pg 35, 38, 39, 40 & 41



See Pg 43

## Braided Fitting with Strain Relief

## Accessories

## Elbows

## Couplers

## Reducers & Adaptors



See Pg 78 & 79



See Pg 80



# FU & SSU system

## galvanised steel and stainless steel



### CONDUIT

#### FU

**Construction:** Galvanised steel, helically wound, flexible conduit. Colour zinc, self colour.

**Typical Applications:** Underfloor wiring in office blocks.

#### SSU

**Construction:** Stainless steel (grade 316), helically wound, flexible conduit. Colour stainless steel, self colour.

**Typical Applications:** Instrumentation and security.

### FITTINGS

IP40

#### M

##### fixed external thread nickel plated brass

Two part fitting comprising shell and body with external thread. This fitting can be inserted into a knockout and secured with a locknut.

IP40

#### M-SS

##### fixed external thread stainless steel

Two part fitting comprising shell and body with external thread. This fitting can be inserted into a knockout and secured with a locknut.

IP40

#### S

##### swivel external thread nickel plated brass

Two part fitting comprising shell and body. The external thread swivels about the main body. Can be used with threaded entries, or knockout secured with a locknut.



nominal size (mm)	FU part number	reel length (m)	SSU part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	metric thread part number	PG thread part number	metric thread part number	metric thread part number	PG thread part number
10	FU10+	25, 50	SSU10+	10, 25	9.0	6.8	25	FU10-M12-M	FU10-PG7-M	SSU10-M12-M	FU10-M12-S	FU10-PG7-S
12	FU12	25, 50	SSU12	10, 25	13.0	10.2	30	FU12-M16-M	FU12-PG9-M	SSU12-M16-M	FU12-M16-S	FU12-PG9-S
16	FU16	10, 25, 50	SSU16	10, 25	16.0	13.0	40	FU16-M16-M	FU16-PG11-M	SSU16-M16-M	FU16-M16-S	FU16-PG11-S
16								FU16-M20-M			FU16-M20-S	FU16-PG13-S
20	FU20	10, 25, 50	SSU20	10, 25	20.5	16.9	45	FU20-M20-M	FU20-PG16-M	SSU20-M20-M	FU20-M20-S	FU20-PG16-S
25	FU25	10, 25, 50	SSU25	10, 25	25.0	21.1	55	FU25-M25-M	FU25-PG21-M	SSU25-M25-M	FU25-M25-S	FU25-PG21-S
32	FU32	10, 25	SSU32	10, 25	32.0	28.1	60	FU32-M32-M	FU32-PG29-M	SSU32-M32-M	FU32-M32-S	FU32-PG29-S
40	FU40	10, 25	SSU40	10	42.5	37.6	80	FU40-M40-M	FU40-PG36-M	SSU40-M40-M	FU40-M40-S	FU40-PG36-S
50	FU50	10, 25	SSU50	10	53.0	48.4	90	FU50-M50-M	FU50-PG48-M	SSU50-M50-M	FU50-M50-S	FU50-PG42-S
63	FU63	10	SSU63*	10	62.5	57.5	115	FU63-M63-M		SSU63-M63-M*	FU63-M63-S	
75	FU75	10			77.0	70.0	150	FU75-M75-M				

### ORDERING NOTES

- Add reel length eg: FU20-25M for 25m reel

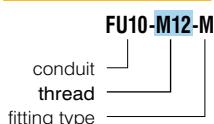
\* Indicates parts made to order on request and may be subject to MOQ and lead time

+ Double interlock section

#### Available on request:

- longer lengths and bulk packaging
- cut lengths and assemblies
- alternative threads

#### How to read the fittings code



# system properties

- High mechanical strength
- Highly flexible
- Inherently Low Fire Hazard (LFH)
- Fully compliant to LUL Std I-085
- Temperature range -100°C to +300°C (FU)  
-100°C to +400°C (SSU)
- IP rating: IP40
- SSU is highly corrosion resistant
- Nickel plated brass fittings
- Stainless steel (316) fittings



S-SS	P	F	FCC	90° elbow
swivel external thread stainless steel  Two part fitting comprising shell and body. The external thread swivels about the main body. Can be used with threaded entries, or knockout secured with a locknut.	plain hole connector nickel plated brass  Two part fitting comprising shell and body without thread. The body is fitted through the opposite side of the entry to the conduit and acts as a locking device also providing a smooth entry bush.	fixed internal thread nickel plated brass  Two part fitting comprising shell and body with internal thread which can be used to connect with an external thread.	plated steel P clip with pvc liner stainless steel P clips  P clip to support conduit.	internal and external threaded nickel plated brass elbow  90° elbow which can be screwed onto external threaded fittings.



metric thread part number	hole size (mm)	part number	metric thread part number	plated steel part number	stainless steel part number	part number
SSU10-M12-S	9	FU10-P		FCC10	FCC10-SS*	BM90-PG7
SSU12-M16-S	12	FU12-P		FCC12	FCC12-SS*	BM90-16M
SSU16-M16-S	16	FU16-P	FU16-M16-F	FCC16	FCC16-SS	BM90-16M
			FU16-M20-F	FCC16	FCC16-SS	BM90-20M
SSU20-M20-S	20	FU20-P	FU20-M20-F	FCC20	FCC20-SS	BM90-20M
SSU25-M25-S	25	FU25-P	FU25-M25-F	FCC25	FCC25-SS	BM90-25M
SSU32-M32-S	32	FU32-P	FU32-M32-F	FCC32	FCC32-SS	BM90-32M
	40	FU40-P		FCC40	FCC40-SS	BM90-40M
	51	FU50-P		FCC50	FCC50-SS*	BM90-50M
	61	FU63-P		FCC63		63
	75	FU75-P		FCC75		75

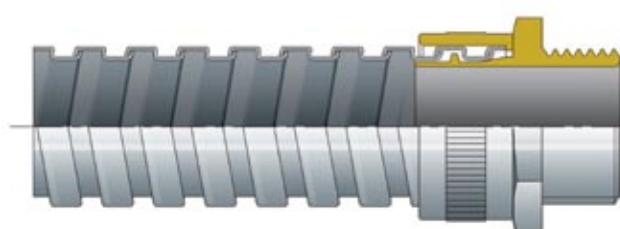
## STANDARDS



BS EN IEC 61386



## TECHNICAL DRAWING





# FSU & FNU system

galvanised steel pvc  
or nylon coated

## CONDUIT

### FSU

**Construction:** Galvanised steel, helically wound, flexible conduit with pvc coating. Colour black. Grey or orange on request.\*

**Typical Applications:** General factory wiring and connections to machines.

### FNU

**Construction:** Galvanised steel, helically wound, flexible conduit with elastomeric nylon coating. Colour black.

**Typical Applications:** Demanding applications requiring higher temperatures or solvent and abrasion resistance.

## FITTINGS

IP54

### M

#### fixed external thread nickel plated brass

Two part fitting comprising shell and body with external thread. This fitting can be inserted into a knockout and secured with a locknut.

IP54

### S

#### swivel external thread nickel plated brass

Two part fitting comprising shell and body. The external thread swivels about the main body. Can be used with threaded entries, or knockout secured with a locknut.

IP54

### P

#### plain hole connector nickel plated brass

Two part fitting comprising shell and body without thread. The body is fitted through the opposite side of the entry to the conduit and acts as a locking device also providing a smooth entry bush.



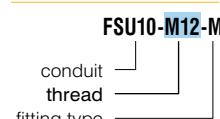
nominal size (mm)	FSU part number	reel length (m)	FNU part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	metric thread part number	PG thread part number	metric thread part number	PG thread part number	hole size (mm)	part number
10	FSU10B+	25, 50			10.0	6.8	25	FSU10-M12-M	FSU10-PG7-M	FSU10-M12-S	FSU10-PG7-S	9	FSU10-P
12	FSU12B	25, 50			14.0	10.2	30	FSU12-M16-M	FSU12-PG9-M	FSU12-M16-S	FSU12-PG9-S	12	FSU12-P
16	FSU16B	10, 25, 50	FNU16B	25	17.0	13.0	40	FSU16-M16-M	FSU16-PG11-M	FSU16-M16-S	FSU16-PG11-S	16	FSU16-P
								FSU16-M20-M		FSU16-M20-S	FSU16-PG13-S		
20	FSU20B	10, 25, 50	FNU20B	25	21.5	16.9	45	FSU20-M20-M	FSU20-PG16-M	FSU20-M20-S	FSU20-PG16-S	20	FSU20-P
25	FSU25B	10, 25, 50	FNU25B	25	26.0	21.1	55	FSU25-M25-M	FSU25-PG21-M	FSU25-M25-S	FSU25-PG21-S	25	FSU25-P
32	FSU32B	10, 25	FNU32B	10	34.0	28.1	60	FSU32-M32-M	FSU32-PG29-M	FSU32-M32-S	FSU32-PG29-S	32	FSU32-P
40	FSU40B	10, 25			44.5	37.6	80	FSU40-M40-M	FSU40-PG36-M	FSU40-M40-S	FSU40-PG36-S	40	FSU40-P
50	FSU50B	10, 25			55.0	48.4	90	FSU50-M50-M	FSU50-PG48-M	FSU50-M50-S	FSU50-PG42-S	51	FSU50-P
63	FSU63B	10			64.5	57.5	115			FSU63-M63-S		61	FSU63-P
75	FSU75B	10			79.0	70.0	150	FSU75-M75-M				75	FSU75-P

## ORDERING NOTES

- Add reel length eg: FSU20-25M for 25m reel
- FSU fittings used for FNU conduit
- \* Indicates parts made to order on request and may be subject to MOQ and lead time
- + Double interlock section

- Available on request:**
  - low temperature (-40°C) version of FSU
  - longer lengths and bulk packaging
  - cut lengths and assemblies
  - other colours
  - stainless steel fittings (grade 316)
  - alternative threads
  - 45° elbows 16 to 32mm
  - UV resistant version of FSU

### How to read the fittings code



# properties

- High mechanical strength
- Highly flexible
- IP rating: IP54 with standard fittings,  
IP65 with type C compression fittings
- Temperature range -15°C to +70°C (FSU)  
-40°C to +120°C (FNU)
- FNU offers high abrasion resistance  
and solvent resistance
- Low Fire Hazard version available  
(see type LFHU on page 24)
- Nickel plated brass fittings



F	C	C-S	C90	coupler	E
fixed internal thread nickel plated brass  Two part fitting comprising shell and body with internal thread which can be used to couple two pieces of conduit together when used with a swivel fitting.	external thread nickel plated brass  Multipart compression fitting including elastomeric seal. Can be used for knockouts or threaded entries as fitting rotates until tightened.	external thread nickel plated brass  Multipart compression fitting including elastomeric seal. The external thread swivels about the main body even after tightening.	external thread elbow nickel plated brass  Multipart 90° compression fitting including elastomeric seal.	nickel plated brass  Multi part compression coupler including nylon seals to join 2 conduits.	insert nickel plated brass  Single part, machined insert to cap end of conduit.



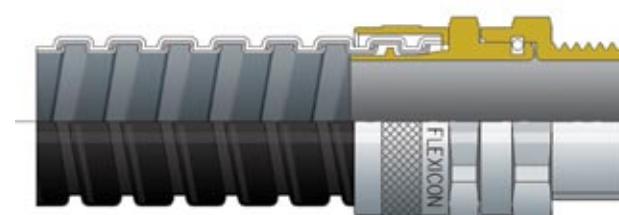
metric thread part number	metric thread part number	PG thread part number	NPT thread part number	metric thread part number	metric thread part number	part number	part number	nominal size (mm)
	FSU10-M12-C						FSU10-E	10
	FSU12-M16-C	FSU12-PG9-C		FSU12-M16-C-S	FSU12-M16-C90		FSU12-E	12
FSU16-M16-F	FSU16-M16-C	FSU16-PG11-C	FSU16-050-C	FSU16-M16-C-S	FSU16-M16-C90		FSU16-E	16
FSU16-M20-F	FSU16-M20-C	FSU16-PG13-C		FSU16-M20-C-S	FSU16-M20-C90		FSU16-E	16
FSU20-M20-F	FSU20-M20-C	FSU20-PG16-C	FSU20-050-C	FSU20-M20-C-S	FSU20-M20-C90	FSU20-FSU20	FSU20-E	20
FSU25-M25-F	FSU25-M25-C	FSU25-PG21-C	FSU25-075-C	FSU25-M25-C-S	FSU25-M25-C90	FSU25-FSU25	FSU25-E	25
FSU32-M32-F	FSU32-M32-C	FSU32-PG29-C	FSU32-100-C	FSU32-M32-C-S	FSU32-M32-C90		FSU32-E	32
	FSU40-M40-C						FSU40-E	40
	FSU50-M50-C						FSU50-E	50
							FSU63-E	63
							FSU75-E	75

## STANDARDS

BS EN IEC 61386



## TECHNICAL DRAWING





# LFHU system

galvanised steel LFH coated



# FPU system

galvanised steel  
polyurethane coated

NEW

## CONDUIT

**LFHU**

**Construction:** Galvanised steel, helically wound, flexible steel conduit with Low Fire Hazard (LFH) coating. Colour black.

**Typical Applications:** Public and commercial buildings and tunnels.

**FPU**

**Construction:** Galvanised steel, helically wound, flexible steel conduit with low temperature, high abrasion, high fatigue life halogen free polyurethane coating. Colour black and metallic blue.

**Typical Applications:** Where low temperature and mechanical strength are important.



nominal size (mm)	LFHU part number	reel length (m)	FPU part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)
12	LFHU12B*	25	FPU12B*	25	14.0	10.2	30
16	LFHU16B	25, 50	FPU16B*	25, 50	17.0	13.0	40
16							
20	LFHU20B	25, 50	FPU20B*	25, 50	21.5	16.9	45
25	LFHU25B	25, 50	FPU25B*	25	26.0	21.1	55
32	LFHU32B	10, 25	FPU32B*	25	34.0	28.1	60
40	LFHU40B	10, 25	FPU40B*	10	44.5	37.6	80
50	LFHU50B	10, 25	FPU50B*	10	55.0	48.4	90
63	LFHU63B	10	FPU63B*	10	64.5	57.5	115
75	LFHU75B	10	FPU75B*	10	79.0	70.0	150

## FITTINGS

IP54

**M****fixed external thread nickel plated brass**

Two part fitting comprising shell and body with external thread. This fitting can be inserted into a knockout and secured with a locknut.

IP54

**S****swivel external thread nickel plated brass**

Two part fitting comprising shell and body without thread. The body is fitted through the opposite side of the entry to the conduit and acts as a locking device also providing a smooth entry bush.

IP54

**P****plain hole connector nickel plated brass**

Two part fitting comprising shell and body without thread. The body is fitted through the opposite side of the entry to the conduit and acts as a locking device also providing a smooth entry bush.



metric thread part number	PG thread part number	metric thread part number	PG thread part number	hole size (mm)	part number
FSU12-M16-M	FSU12-PG9-M	FSU12-M16-S	FSU12-PG9-S	12	FSU12-P
FSU16-M16-M	FSU16-PG11-M	FSU16-M16-S	FSU16-PG11-S	16	FSU16-P
FSU16-M20-M		FSU16-M20-S	FSU16-PG13-S		
FSU20-M20-M	FSU20-PG16-M	FSU20-M20-S	FSU20-PG16-S	20	FSU20-P
FSU25-M25-M	FSU25-PG21-M	FSU25-M25-S	FSU25-PG21-S	25	FSU25-P
FSU32-M32-M	FSU32-PG29-M	FSU32-M32-S	FSU32-PG29-S	32	FSU32-P
FSU40-M40-M	FSU40-PG36-M	FSU40-M40-S	FSU40-PG36-S	40	FSU40-P
FSU50-M50-M	FSU50-PG48-M	FSU50-M50-S	FSU50-PG42-S	51	FSU50-P
FSU63-M63-M		FSU63-M63-S		61	FSU63-P
FSU75-M75-M				75	FSU75-P

## Important Note

- For LFH performance see page 94

## ORDERING NOTES

- Add reel length eg: LFHU20B-25M for 25m reel
- FSU fittings used on LFHU conduit
- For metallic blue change B to BU eg FPU20BU-25m
- \* Indicates parts made to order on request and may be subject to MOQ and lead time

- Available on request:**
  - longer lengths and bulk packaging
  - cut lengths and assemblies additional sizes
  - stainless steel fittings (grade 316)
  - alternative threads
  - full copies of independent test reports confirming screening effectiveness
  - 45° C type elbows 16 to 32mm

NEW

## How to read the fittings code

FSU10-M12-M

conduit  
thread  
fitting type

# properties

- High mechanical strength
- Highly flexible
- IP rating: IP54 with standard fittings,  
IP65 with type C compression fittings
- Extra low Fire Hazard UL94 V0, for LFH see page 94 (LFHU)
- High fatigue life and high abrasion resistant (FPU)
- Halogen, sulphur and phosphorus free
- Compliant to LUL Std 1-085 (LFHU)
- Temperature range: -25°C to +90°C (LFHU)  
-40°C to +80°C (FPU)
- Nickel plated brass fittings
- Vibration and shock tested to EN61373 Cat 2



<b>F</b>	IP54	<b>C</b>	IP65	<b>C-S</b>	IP65	<b>C90</b>	IP65	<b>coupler</b>	IP65	<b>E</b>
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## fixed internal thread nickel plated brass

Two part fitting comprising shell and body with internal thread which can be used to couple two pieces of conduit together when used with a swivel fitting.

## external thread nickel plated brass

Multipart compression fitting including elastomeric seal. Can be used for knockouts or threaded entries as fitting rotates until tightened.

## external thread nickel plated brass

Multipart compression fitting including elastomeric seal. The external thread swivels about the main body even after tightening.

## external thread elbow nickel plated brass

Multipart 90° compression fitting including elastomeric seal.

## nickel plated brass

Multi part compression coupler including nylon seals to join 2 conduits.

## insert nickel plated brass

Single part, machined insert to cap end of conduit.



metric thread part number	metric thread part number	PG thread part number	NPT thread part number	metric thread part number	metric thread part number	part number	part number	nominal size (mm)
	<b>FSU12-M16-C</b>	<b>FSU12-PG9-C</b>		<b>FSU12-M16-C-S</b>	<b>FSU12-M16-C90</b>			<b>12</b>
<b>FSU16-M16-F</b>	<b>FSU16-M16-C</b>	<b>FSU16-PG11-C</b>	<b>FSU16-050-C</b>	<b>FSU16-M16-C-S</b>	<b>FSU16-M16-C90</b>			<b>16</b>
<b>FSU16-M20-F</b>	<b>FSU16-M20-C</b>	<b>FSU16-PG13-C</b>		<b>FSU16-M20-C-S</b>	<b>FSU16-M20-C90</b>			<b>16</b>
<b>FSU20-M20-F</b>	<b>FSU20-M20-C</b>	<b>FSU20-PG16-C</b>	<b>FSU20-050-C</b>	<b>FSU20-M20-C-S</b>	<b>FSU20-M20-C90</b>	<b>FSU20-FSU20</b>	<b>FSU20-E</b>	<b>20</b>
<b>FSU25-M25-F</b>	<b>FSU25-M25-C</b>	<b>FSU25-PG21-C</b>	<b>FSU25-075-C</b>	<b>FSU25-M25-C-S</b>	<b>FSU25-M25-C90</b>	<b>FSU25-FSU25</b>	<b>FSU25-E</b>	<b>25</b>
<b>FSU32-M32-F</b>	<b>FSU32-M32-C</b>	<b>FSU32-PG29-C</b>	<b>FSU32-100-C</b>	<b>FSU32-M32-C-S</b>	<b>FSU32-M32-C90</b>			<b>32</b>
	<b>FSU40-M40-C</b>							<b>40</b>
	<b>FSU50-M50-C</b>							<b>50</b>
								<b>63</b>
								<b>75</b>

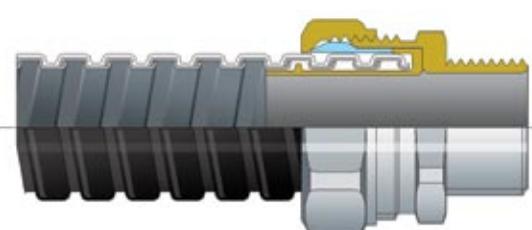
## STANDARDS



BS EN IEC 61386

\* refer to conduit properties for applicable standards

## TECHNICAL DRAWING





# LTP, LTPHC, LTPUL & LTPE

galvanised steel, plastic coated liquid tight

## CONDUIT

### LTP

**Construction:** Galvanised steel, helically wound, flexible conduit with smooth oil resistant and high temperature pvc cover. Colour black. Grey or orange on request.\*

**Typical Applications:** Machine tools or outdoor installations where liquid tight is a requirement.

### LTPHC

**Construction:** Galvanised steel, helically wound, flexible conduit with smooth thermoplastic rubber cover. Colour black.

**Typical Applications:** Machine tools or outdoor installations where low or high temperature rating is required. ie. food processing

### LTPUL

**Construction:** Galvanised steel, helically wound, flexible steel conduit including copper bonding strip (up to 32mm) with smooth pvc cover. Colour black.

**Typical Applications:** As for LTP but where UL listing or CSA approval is required.

### LTPE

**Construction:** Galvanised steel, helically wound, flexible conduit with smooth pvc cover. Colour black.

**Typical Applications:** Machine tools or outdoor installations where liquid tight is a requirement.

## FITTINGS

IP66 IP67 IP68 IP69K

### C

**external thread  
nickel plated brass**

Multipart compression fitting including nylon seal. Can be used for knockout or threaded entries as fitting rotates until tightened.



nominal size (mm)	US trade size (*)	outside dia (mm)	inside dia (mm)	LTP part number	reel length (m)	min inside bend radius (mm)	LTPHC part number	reel length (m)	min inside bend radius (mm)	LTPUL part number	reel length (m)	min inside bend radius (mm)	LTPE part number	reel length (m)	min inside bend radius (mm)	
10	1/4	11.8	7.0	LTP10B+	50	35										
10																
12	5/16	14.2	10.0	LTP12B	25, 50	40	LTPHC12B	25	40							
16	3/8	17.8	12.6	LTP16B	10, 25, 50	45	LTPHC16B	25	45	LTPUL16B	25	50	LTPE16B	25	45	
16																
20	1/2	21.1	16.0	LTP20B	10, 25, 50	65	LTPHC20B	25	65	LTPUL20B	25	90	LTPE20B	25	65	
25	5/8	26.4	21.0	LTP25B	10, 25, 50	100	LTPHC25B	25	100	LTPUL25B	25	110	LTPE25B	25	100	
32	1	33.1	26.5	LTP32B	10, 25	135	LTPHC32B	25	135	LTPUL32B	15	140	LTPE32B	10, 25	135	
40	1 1/4	41.8	35.4	LTP40B	10, 25	175	LTPHC40B	10	175	LTPUL40B	15	180	LTPE40B*	10, 25	175	
50	1 1/2	47.9	40.4	LTP50B+	10, 25	230	LTPHC50B+	10	230	LTPUL50B+	15	230	LTPE50B*	10, 25	230	
63	2	59.7	51.6	LTP63B+	10, 25	280	LTPHC63B*+	10	280	LTPUL63B+	15	280	LTPE63B*	10, 25	280	

metric thread part number	LTP10-M12-C
PG thread part number	LTP10-M16-C
NPT thread part number	LTP12-M16-C LTP12-PG9-C
	LTP16-M16-C LTP16-PG11-C
	LTP16-M20-C LTP16-PG13-C LTP16-050-C
	LTP20-M20-C LTP20-PG16-C LTP20-050-C
	LTP25-M25-C LTP25-PG21-C LTP25-075-C
	LTP32-M32-C LTP32-PG29-C LTP32-100-C
	LTP40-M40-C LTP40-PG36-C LTP40-125-C
	LTP50-M50-C LTP50-PG42-C
	LTP63-M63-C LTP63-PG48-C

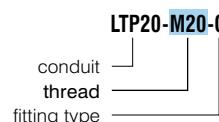
**Note:** Stainless steel fittings also available see page 29

## ORDERING NOTES

- Add reel length eg: LTP20B-25M for a 25m reel
- For LTP specify colour (B = Black, G = Grey)
- \* Indicates parts made to order on request and may be subject to MOQ and lead time
- + Double interlock section

- Available on request:**
  - longer lengths and bulk packaging
  - cut lengths and assemblies
  - C-S with PG threads
  - other colours
  - internal thread fittings

### How to read the fittings code



# properties

- High mechanical strength
- IP rating: IP66 + IP67 + IP68 (5 bar) + IP69K
- Smooth, wipe clean outer cover
- Cover does not wrinkle when bent
- Temperature range -20°C to +105°C (LTP)  
-45°C to +135°C (LTPHC)  
-15°C to +75°C (LTP)
- Temperature range -15°C to +70°C (LTPE)

- LTP has Lloyd's Register Type Approval
- LTPUL conduits are UL listed and CSA approved
- Resistant to oils and greases (except LTPE)
- Good flexibility
- UV resistant (black) and suitable for external use
- Nickel plated brass or stainless steel fittings as shown on page 29
- Vibration and shock tested to EN61373 Cat 2



IP66	IP67	IP68	IP69K	IP66	IP67	IP68	IP69K	IP66	IP67	IP68	IP69K	IP66	IP67	IP68	IP69K
<b>C-S</b>		<b>C90</b>		<b>C45</b>		<b>coupler</b>		<b>E</b>		<b>FCC</b>					
<b>swivel external thread nickel plated brass</b>		<b>external thread nickel plated brass</b>		<b>external thread nickel plated brass</b>		<b>nickel plated brass</b>		<b>insert nickel plated brass</b>		<b>plated steel P clip with pvc liner stainless steel P clips</b>					

**swivel external thread nickel plated brass**  
Compression fitting for knockout or threaded entries.

Multipart compression fitting including elastomeric seal. The external thread swivels about the main body even after tightening.

**external thread nickel plated brass**  
90° multipart compression fitting including nylon seal. Can be used for knockout.

**external thread nickel plated brass**  
45° multipart compression fitting including nylon seal. Can be used for knockout.

**nickel plated brass**  
Multi part compression coupler including nylon seals to join 2 conduits.

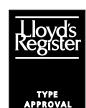
**insert nickel plated brass**  
Single part, machined insert to cap end of conduit.

**plated steel P clip with pvc liner stainless steel P clips**  
P clip to support conduit.



metric thread part number	metric thread part number	metric thread part number	part number	part number	plated steel part number	stainless steel part number	nominal size (mm)
LTP12-M16-S	LTP12-M16-C90		LTP10-E	FCC10	FCC10-SS*	10	
LTP16-M16-S	LTP16-M16-C90		LTP10-E	FCC10	FCC10-SS*	10	
LTP16-M20-S	LTP16-M20-C90	LTP16-M20-C45	LTP12-E	FCC12	FCC12-SS*	12	
LTP20-M20-S	LTP20-M20-C90	LTP20-M20-C45	LTP16-E	FCC16	FCC16-SS	16	
LTP25-M25-S	LTP25-M25-C90	LTP25-M25-C45	LTP16-E	FCC16	FCC16-SS	16	
LTP32-M32-S	LTP32-M32-C90	LTP32-M32-C45	LTP20-LTP20	LTP20-E	FCC20	FCC20-SS	20
LTP40-M40-S	LTP40-M40-C90	LTP40-M40-C45	LTP25-LTP25	LTP25-E	FCC25	FCC25-SS	25
LTP50-M50-S	LTP50-M50-C90	LTP50-M50-C45	LTP32-E	FCC32	FCC32-SS	32	
	LTP63-M63-C90	LTP63-M63-C45	LTP40-E	FCC40	FCC40-SS	40	
			LTP50-E	FCC50	FCC50-SS*	50	
			LTP63-E	FCC63		63	

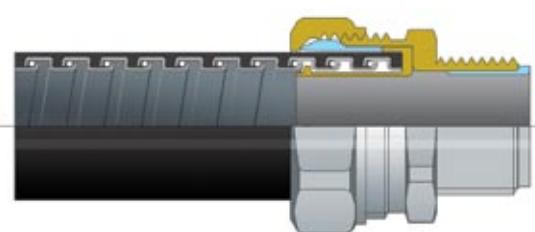
## STANDARDS



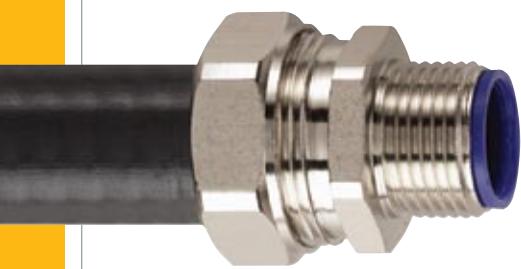
BS EN IEC 61386



## TECHNICAL DRAWING



\* refer to conduit properties for applicable standards



## Specialist liquid tight products

**LTPSS system** stainless steel  
pvc coated liquid tight

**LTPPU system** galvanised  
steel, polyurethane coated  
liquid tight

NEW

### CONDUIT

#### LTPSS

**Construction:** Stainless steel (316), helically wound, flexible conduit with oil resistant and high temperature pvc smooth cover. Colour black.

**Typical Applications:** Food processing machinery or outdoor applications where high corrosion resistance and liquid tight are a requirement.

#### LTPPU

**Construction:** Galvanised steel, helically wound, flexible steel conduit with smooth halogen free polyurethane cover. Colour black and blue.

**Typical Applications:** Where low temperature performance, high abrasion, high fatigue life and liquid tight are a requirement.



nominal size (mm)	US trade size (*)	outside dia (mm)	inside dia (mm)	LTPSS	part number	reel length (m)	min inside bend radius (mm)	LTPPU	part number	reel length (m)	min inside bend radius (mm)
10	1/4	11.8	7.0		LTPPU10*	25	35				
10											
12	5/8	14.2	10.0		LTPPU12*	25	40				
16	1/2	17.8	12.6	LTPSS16*	25	45	LTPPU16*	25	45		
16											
20	1/2	21.1	16.0	LTPSS20	25	65	LTPPU20*	25	65	LTPRD20B	25
25	3/4	26.4	21.0	LTPSS25	25	100	LTPPU25*	25	100	LTPRD25B	25
32	1	33.1	26.5	LTPSS32	10	135	LTPPU32*	25	135	LTPRD32B	25
40	1 1/4	41.8	35.4		LTPPU40*	10	175	LTPRD40B	10	LTPRD40B	10
50	1 1/2	47.9	40.4		LTPPU50*	10	230	LTPRD50B	10	LTPRD50B	10
63	2	59.7	51.6		LTPPU63*	10	280				

#### LTBRDP

**Construction:** Galvanised steel, helically wound, flexible conduit with galvanised steel braid and oil resistant and high temperature pvc smooth cover. Colour black.

**Typical Applications:** Machinery or outdoor applications where high corrosion resistance and liquid tight are a requirement combined with EMC screening

#### LTBRDLFH

**Construction:** Galvanised steel, helically wound, flexible conduit with galvanised steel braid and smooth LFH cover. Colour black.

**Typical Applications:** Installations where liquid tight is a requirement and where low fire hazard properties and EMC screening are required.



### FITTINGS

IP66 IP67 IP68 IP69K

#### C

**external thread**  
**nickel plated brass**

Multipart compression fitting including nylon seal. Can be used for knockout or threaded entries as fitting rotates until tightened.

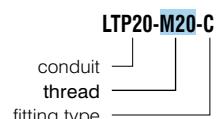


metric thread part number	PG thread part number	NPT thread part number
LTP10-M12-C		
LTP10-M16-C		
LTP12-M16-C	LTP12-PG9-C	
LTP16-M16-C	LTP16-PG11-C	
LTP16-M20-C	LTP16-PG13-C	LTP16-050-C
LTP20-M20-C	LTP20-PG16-C	LTP20-050-C
LTP25-M25-C	LTP25-PG21-C	LTP25-075-C
LTP32-M32-C	LTP32-PG29-C	LTP32-100-C
LTP40-M40-C	LTP40-PG36-C	LTP40-125-C
LTP50-M50-C	LTP50-PG42-C	
LTP63-M63-C	LTP63-PG48-C	

### ORDERING NOTES

- Add reel length eg: LTPSS20B-25M for a 25m reel
- Stainless Steel LTP fittings can be used with any of the conduits shown on page 26
- Add colour for LTPPU ie B=Black, BU=Blue eg. LTPPU20B is Black
- \* Indicates parts made to order on request and may be subject to MOQ and lead time
- Available on request:
  - longer lengths and bulk packaging
  - cut lengths and assemblies
  - other colours
  - 45 degree stainless steel elbows

#### How to read the fittings code



# LTBRDP system

galv steel, galv steel braid,  
pvc coated liquid tight



# LTBRDLFH system

galv steel, galv steel braid,  
LFH coated liquid tight



## C-SS

### external thread stainless steel

Multipart compression fitting with Stainless Steel (316) body and nut and nickel plated brass insert, including nylon seal. Can be used for knockout or threaded entries as fitting rotates until tightened.



## C-90-SS

### external thread stainless steel (316)

90° multipart compression fitting with Stainless Steel (316) body and nut and nickel plated brass insert, including nylon seal. Can be used for knockout.

## LOCKNUTS

### stainless steel (316) locknuts

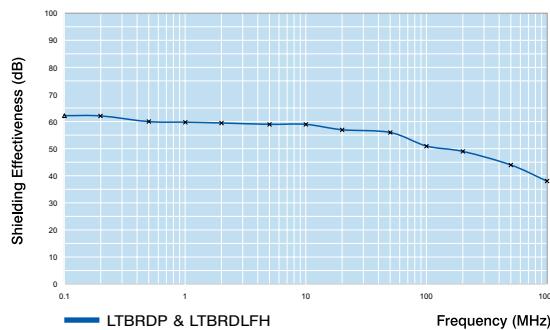
Hexagonal locknut to secure fitting.

## FCC-SS

### stainless steel (316) P clips

P clip to support conduit.

## EMC SCREENING PERFORMANCE



metric thread  
part number



metric thread  
part number



part number



part number

nominal size (mm)

10

10

12

16

16

20

25

32

40

50

LTP16-M16-CSS

LTP16-M20-CSS

LTP20-M20-CSS

LTP25-M25-CSS

LTP32-M32-CSS

LTP40-M40-CSS

LTP50-M50-CSS

LTP16-M20-CSS90

LTP20-M20-CSS90

LTP25-M25-CSS90

LTP32-M32-CSS90

LTP40-M40-CSS90

LTP50-M50-CSS90

SS-M16

SS-M20

SS-M20

SS-M25

SS-M32

SS-M40

SS-M50

FCC16-SS

FCC16-SS

FCC20-SS

FCC25-SS

FCC32-SS

FCC40-SS

FCC50-SS\*

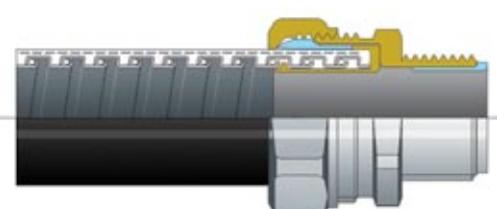
## STANDARDS



BS EN IEC 61386



## TECHNICAL DRAWING



\* refer to conduit properties for applicable standards



# Hazardous area liquid tight conduit solutions

## EXD Conduit Glands

Flameproof EXD Barrier gland

NEW

### HAZARDOUS AREA CLASSIFICATIONS AND ZONES

#### Introduction

Hazardous Areas exist where a flammable mixture of gas and air, or dust and air, can exist in large enough quantities and for long enough periods to create a risk of explosion if an ignition source is present. Wherever possible it is important to minimise the risk of explosive mixtures forming and / or the risk of ignition. In the instances where this is impossible or impractical then means of providing a level of protection are required.

This guide will briefly explain how people and plant can be protected in hazardous areas. The guide is particularly focussed towards applications for the Flexicon EXD conduit gland and is not intended to be a full guide to hazardous areas. Users of this conduit gland should be fully qualified, competent and conversant with hazardous area requirements.

#### Flammable mixtures and ignition sources

Flammable gases when mixed with air can be explosive. Gases are categorised into 3 groups with Group A being the least explosive and Group C being the most explosive. Equipment is also classified from T1 to T6 according to maximum allowed temperature resulting from the ignition temperature of the gas/air mix

Certain fine dusts dispersed in air can also be explosive

Ignition sources include: sparking due to static discharge, electrical arcs, lightning, hot engine exhaust, hot equipment and heat from chemical reactions.

#### Hazardous Area Zones

The level of risk in hazardous areas is defined by a zoning system.

##### Zone 0

An area where an explosive gas atmosphere is present continuously or for long periods of time.

##### Zone 1

An area where an explosive gas atmosphere may exist under normal operating conditions.

##### Zone 2

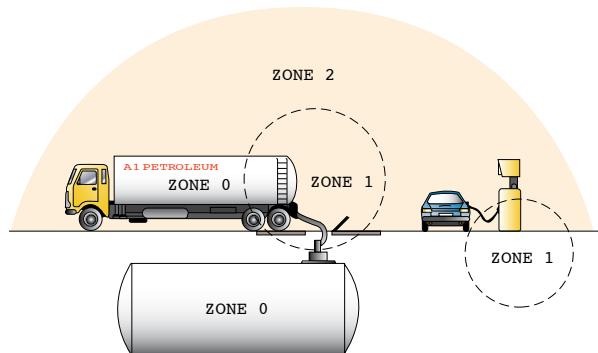
An area where an explosive gas atmosphere is not likely to exist under normal operating conditions, but if it does it will exist only for a short period of time.

##### Zone 21

An area, in which combustible dust, as a cloud, is occasionally present during normal operation, in sufficient quantity to be capable of producing an explosive concentration of combustible dust in a mixture with air.

##### Zone 22

An area, in which combustible dust, as a cloud, may occur infrequently and persist for only a short period, or in which accumulations of layers of combustible dust may give rise to an explosive concentration of combustible dust in a mixture with air.

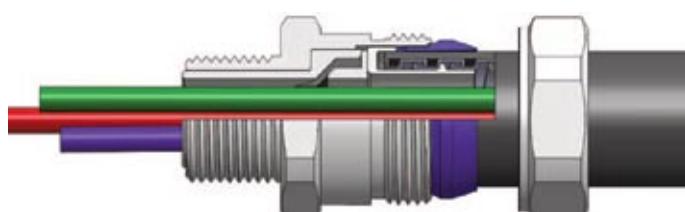


Flexicon EXD barrier glands can be used in Zone 1 and Zone 2 areas where Group A, B or C gases are present. As the gland does not add to the temperature of the enclosure, it does not have a temperature classification and so can be used with all temperature classes. Flexicon EXD barrier glands can be used in Zone 21 and Zone 22 where explosive dust may be present.

#### ORDERING NOTES

- Additional epoxy compound packs - contact us
- NPT threads on request
- Stainless steel (316) on request
- EXD Reducers, enlargers, thread convertors and stop plugs on request
- Face sealing washers are sold separately

#### TECHNICAL DRAWING



# properties

- IP Rating: IP66 + IP67 + IP68 (5bar) + IP69K
- Material: Nickel Plated Brass
- Suitable for threaded entries
- Operating Temperature of gland -60 °C to +85 °C
- High mechanical strength
- Can be used with individual cores or oversheathed cable
- Can be used in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous areas when used with Flexicon's Liquid Tight range of flexible conduits
- ATEX and IECEx EX d (Flameproof)
- ATEX and IECEx EX e (Increased Safety)
- ATEX and IECEx EX t (Dust Ignition Protection)



## Hazardous area Approvals

<b>ATEX APPROVAL:</b>	Sira Certificate No Sira 10ATEX1172X
Ex d FLAMEPROOF	Ex d IIC Gb EN 60079-1 2007
Ex e INCREASED SAFETY	Ex e IIC Gb EN 60079-7 2007
Ex t DUST IGNITION PROTECTION	Ex ta IIIC Da IP6X IEC 60079-31 2008



<b>IECEx APPROVAL</b>	Sira Certificate No IECEx SIR 10.0094X
Ex d FLAMEPROOF	Ex d IIC Gb IEC 60079-1 2007
Ex e INCREASED SAFETY	Ex e IIC Gb IEC 60079-7 2006-7
Ex t DUST IGNITION PROTECTION	Ex ta IIIC Da IP6X IEC 60079-31 2008



## LTP - EXD

IP66 IP67 IP68 IP69K

**Construction:** Nickel Plated Brass fitting with a nylon seal and two part epoxy resin pack. Supplied in boxes of one complete with instructions and gloves.

**Typical Applications:** Flameproof barrier gland offering a high specification high quality solution for Ex d, Ex e and Ex t applications. IP rating: IP66, + IP67 + IP68(5bar) + IP69K



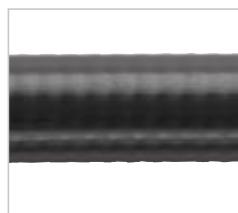
Part No.	To fit Conduit Size (mm)	Thread Size
LTP16-M20-EXD	16	M20
LTP20-M20-EXD	20	M20
LTP25-M25-EXD	25	M25
LTP32-M32-EXD	32	M32
LTP40-M40-EXD	40	M40
LTP50-M50-EXD	50	M50
LTP63-M63-EXD	63	M63

## STANDARDS



BS EN IEC 61386

**RoHS** ✓





## FL system

galvanised steel pliable

SUPER  
EMC  
SCREENINHERENT  
LOW FIRE  
HAZARD

## FLP system

galvanised steel  
pvc coated, pliable

SUPER  
EMC  
SCREEN

IP66 IP67

## CONDUIT

## FITTINGS

## CONDUIT

## FITTINGS

IP40

IP66 IP67

**FL****C Type****FLP****C Type**

**Construction:** Corrugated galvanised steel with kraft paper lining. Colour, zinc self colour.

**Typical Applications:** Any installation where there is no movement.

- High compression strength
- Provides EMC screening
- IP rating: IP40,
- Can be formed into shape requiring fewer clips
- Temperature range -40°C to +120°C
- Nickel plated brass fittings
- Inherently low fire hazard

**external thread  
nickel plated brass**

Multipart compression fitting including nylon compression seal. Can be used for knockout or threaded entries as fitting rotates until tightened. Provides EMC screening.

**Construction:** Corrugated galvanised steel with kraft paper lining and smooth pvc outer cover. Colour black.

**Typical Applications:** Any installation where there is no movement and a high IP rating is required.

- High compression strength
- Pull off strength: Type C 50kg (20mm)
- Provides EMC screening
- IP rating: IP66 + IP67 for Type C
- Smooth, wipe clean outer cover
- Does not wrinkle when bent
- Can be formed into shape requiring fewer clips
- Temperature range -15°C to +70°C
- Lloyd's Register Type Approved



nominal size (mm)	FL part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	metric thread part number
16						
20	FL20	25	19.0	14.6	35	FL20-M20-C
25	FL25	25	25.1	20.4	45	FL25-M25-C
32						
40						
50						

nominal size (mm)	FLP part number	reel length (m)	min inside bend radius (mm)	outside dia (mm)	metric thread part number
16	FLP16B	25	35	17.8	FLP16-M16-C
20	FLP20B	10,25,50	35	20.9	FLP20-M20-C
25	FLP25B	10,25,50	45	27.3	FLP25-M25-C
32	FLP32B	10,30	55	34.0	FLP32-M32-C
40	FLP40B	25	70	40.4	use C-HS
50	FLP50B	20	110	53.1	use C-HS

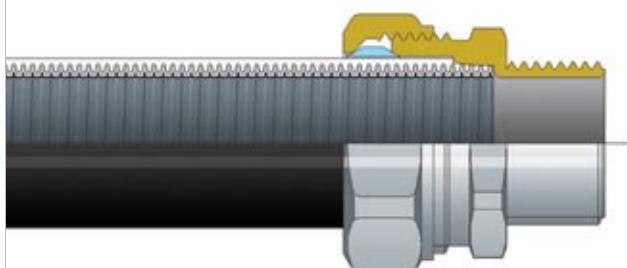
## STANDARDS



BS EN IEC 61386



## TECHNICAL DRAWING



\* refer to conduit properties for applicable standards

## LFHP system

galvanised steel extra LFH  
coated, pliable



### CONDUIT

#### LFHP

**Construction:** Corrugated galvanised steel with kraft paper lining and smooth extra LFH outer cover. Colour black.

**Typical Applications:** Any installation where there is no movement and a high IP rating is required.

- Pull off strength: Type C-HS 100kg (20mm)
- Extra low fire hazard, oil resistant and UV resistant
- Vibration and shock tested to EN61373 Cat 2
- High compression strength 570kg/100mm
- Provides EMC screening
- IP rating: IP66 + IP67 + IP68 (5 bar) + IP69K
- Can be formed into shape requiring fewer clips
- Temperature range -25°C to +90°C
- Smooth, wipe clean outer cover
- Does not wrinkle when bent
- Lloyd's Register Type Approved



### FITTINGS

IP66 IP67 IP68 IP69K

IP66 IP67 IP68 IP69K

#### C-HS

#### external thread brass - high specification

Multipart compression fitting including serrated nylon seal. Can be used for knockout or threaded entries as fitting rotates until tightened. Provides EMC screening once cover is trimmed from end of conduit.

#### F-HS

#### internal thread brass - high specification

Multipart compression fitting including serrated nylon seal. Provides EMC screening once cover is trimmed from end of conduit.



**FLHP**  
part number

reel length (m)

min inside bend radius (mm)

outside dia (mm)

inside dia (mm)

FLHP	part number	reel length (m)	min inside bend radius (mm)	outside dia (mm)	inside dia (mm)
LFHP16B	LFHP16B	25	40	17.8	11.6
LFHP20B	LFHP20B	25	40	20.9	14.6
LFHP25B	LFHP25B	25	55	27.3	20.4
LFHP32B	LFHP32B	25	65	34.0	26.7
LFHP40B	LFHP40B	25	85	40.4	32.8
LFHP50B	LFHP50B	25	130	53.1	45.3

metric thread part number

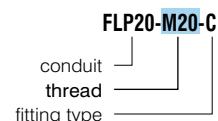
metric thread part number

FLP16-M16-C-HS	FLP16-M16-F-HS
FLP20-M20-C-HS	FLP20-M20-F-HS
FLP25-M25-C-HS	FLP25-M25-F-HS
FLP32-M32-C-HS	FLP32-M32-F-HS
FLP40-M40-C-HS	FLP40-M40-F-HS
FLP50-M50-C-HS	FLP50-M50-F-HS

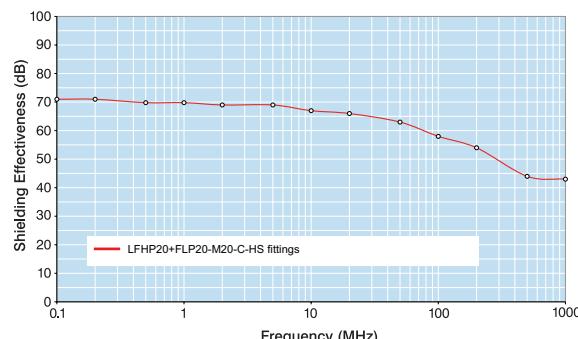
### ORDERING NOTES

- Add reel length eg:  
FLP20B-25M for 25m reel
- Available on request:
  - longer lengths
  - cut lengths and assemblies
  - additional sizes
  - full copies of independent test report confirming screening effectiveness

#### How to read the fittings code



### EMC SCREENING PERFORMANCE





**FSB system** galvanised steel core, pvc coated, galvanised steel overbraid



**LFHUBRD system** galvanised steel core, extra LFH coated, stainless steel overbraid



## CONDUIT

### FSB

**Construction:** Galvanised steel, helically wound, flexible conduit with pvc coating and galvanised steel overbraid. Colour zinc, self colour.

**Typical Applications:** Industrial environments where higher abrasion resistance or screening are required.

### LFHUBRD

**Construction:** Galvanised steel, helically wound, flexible conduit with extra LFH coating and stainless steel (316) overbraid.

**Typical Applications:** Metro rail stations where LFH, EMC screening and anti-vandal properties are required. Compliant to LUL std 1-085.

## FITTINGS

IP54

IP54

### M

#### fixed external thread nickel plated brass

Two part fitting comprising of shell and body with external thread. This fitting can be inserted into a knockout and secured with a locknut.

### S

#### swivel external thread nickel plated brass

Two part fitting comprising of shell and body. The external thread swivels about the main body. Can be used with threaded entries, or knockout secured with a locknut.



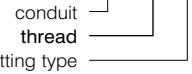
nominal size (mm)	FSB part number	LFHUBRD part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	metric thread part number	PG thread part number	metric thread part number	PG thread part number
12	FSB12		25	15.2	10.2	30	FSB12-M16-M	FSB12-PG9-M	FSB12-M16-S	FSB12-PG9-S
16	FSB16		25	18.2	13.0	40	FSB16-M16-M	FSB16-PG11-M	FSB16-M16-S	FSB16-PG11-S
16		LFHUBRD20	25	22.7	16.9	45	FSB16-M20-M		FSB16-M20-S	
20	FSB20	LFHUBRD20	25	22.7	16.9	45	FSB20-M20-M	FSB20-PG16-M	FSB20-M20-S	FSB20-PG16-S
25	FSB25	LFHUBRD25	25	27.2	21.1	55	FSB25-M25-M	FSB25-PG21-M	FSB25-M25-S	FSB25-PG21-S
32	FSB32	LFHUBRD32	25	35.2	28.1	70	FSB32-M32-M	FSB32-PG29-M	FSB32-M32-S	FSB32-PG29-S
40	FSB40		10	45.7	37.6	80	FSB40-M40-M	FSB40-PG36-M	FSB40-M40-S	FSB40-PG36-S
50	FSB50		10	57.7	48.4	90	FSB50-M50-M	FSB50-PG48-M	FSB50-M50-S	FSB50-PG42-S

## ORDERING NOTES

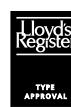
- Add reel length eg: FSB20-25M for 25m reel
- Available on request:**
  - longer lengths, cut lengths and assemblies
  - additional sizes, stainless steel overbraided
  - PG threads, female threaded fittings
  - full copies of independent test report confirming screening effectiveness

### How to read the fittings code

FSB20-M20-M



## STANDARDS



BS EN IEC 61386



\* refer to conduit properties for applicable standards

# properties

- High mechanical strength
- Tensile strength with standard fittings 120kg for 20mm size
- Tensile strength with C type fittings 300kg for 20mm size
- Highly flexible
- IP rating: IP54 for standard fittings, IP65 for C type fittings
- High abrasion resistance
- Resists hot metal swarf and splashes

- Provides EMC screening
- Temperature range  
-15°C to +70°C (FSB)  
-20°C to +90°C (LFHUBRD)
- LFHUBRD is extra low fire hazard
- Compliant to LUL Std 1-085 (LFHUBRD)
- Nickel plated brass fittings
- Vibration and shock tested to EN61373 Cat 2



**plain hole connector**  
**nickel plated brass**

Two part fitting comprising of shell and body without thread. The body is fitted through the opposite side of the entry to the conduit and acts as a locking device also providing a smooth entry bush.



**fixed external thread**  
**nickel plated brass**

Multipart compression fitting including elastomeric seal. Can be used for knockouts. Braid is locked between inner and outer compression nuts.



**swivel external thread**  
**nickel plated brass**

Multipart compression fitting including elastomeric seal can be used for knockouts or threaded entries. Braid is locked between inner and outer compression nuts.



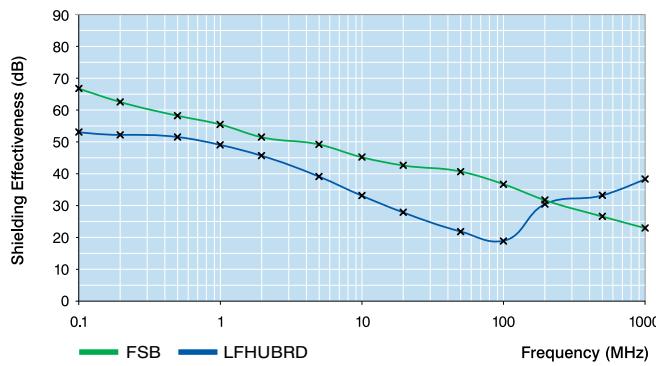
**external thread elbow**  
**nickel plated brass**

Multipart 90° compression fitting including elastomeric seal. Braid is locked between inner and outer compression nuts.

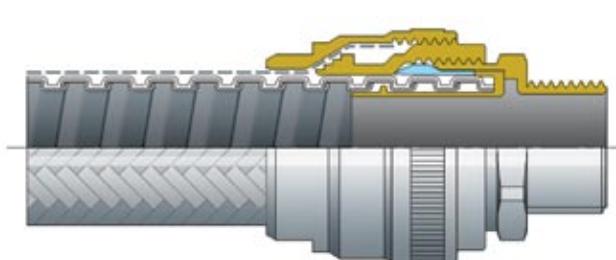


hole size (mm)	part number	metric thread part number	PG thread part number	metric thread part number	nominal size (mm)
12	FSB12-P				12
16	FSB16-P	FSB16-M16-C	FSB16-PG11-C	FSB16-M16-C-S	16
		FSB16-M20-C	FSB16-PG13-C	FSB16-M20-C-S	
20	FSB20-P	FSB20-M20-C	FSB20-PG16-C	FSB20-M20-C-S	20
25	FSB25-P	FSB25-M25-C	FSB25-PG21-C	FSB25-M25-C-S	25
32	FSB32-P	FSB32-M32-C	FSB32-PG29-C	FSB32-M32-C-S	32
40	FSB40-P				40
50	FSB50-P				50

## EMC SCREENING PERFORMANCE



## TECHNICAL DRAWING





## CONDUIT

## FB

**Construction:** Galvanised steel, helically wound conduit with galvanised steel overbraid. Colour zinc, self colour.

**Typical Applications:** Industrial environments and high temperatures.

## FUSSB

**Construction:** Galvanised steel, helically wound, flexible conduit with stainless steel (316) overbraid.

**Typical Applications:** Underground stations where LFH properties and EMC screening are required.



nominal size (mm)	FB part number	FUSSB part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)
12	FB12		25	14.0	10.2	30
16	FB16		25	17.5	13.0	40
16		FUSSB20	25	21.5	16.9	45
20	FB20	FUSSB20	25	21.5	16.9	45
25	FB25	FUSSB25	25	26.0	21.1	55
32	FB32	FUSSB32	25	34.0	28.1	70
40	FB40		10	43.5	37.6	80
50	FB50		10	54.5	48.4	90

## FB system

galvanised steel core  
galvanised steel overbraid



## FUSSB system

galvanised steel core  
stainless steel overbraid



## FITTINGS

IP40

IP40

## M

fixed external thread  
nickel plated brass

Two part fitting comprising shell and body with external thread. This fitting can be inserted into a knockout and secured with a locknut.

## S

swivel external thread  
nickel plated brass

Two part fitting comprising shell and body. The external thread swivels about the main body. Can be used with threaded entries, or knockout secured with a locknut.

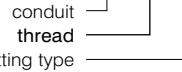


## ORDERING NOTES

- Add reel length eg: FB20-25M for 25m reel
- \* Indicates parts made to order on request and may be subject to MOQ and lead time
- Available on request:**
  - longer lengths, cut lengths and assemblies
  - additional sizes, stainless steel overbraided
  - PG threads, female threaded fittings
  - full copies of independent test report confirming screening effectiveness

## How to read the fittings code

FB20-M20-M



## STANDARDS



BS EN IEC 61386

# properties

- High mechanical strength
- Highly flexible
- IP rating: IP40
- High abrasion resistance
- Resists hot metal swarf and splashes
- Provides EMC screening
  - 55dB@1MHz (FB)
  - 49dB@1MHz (FUSSB)
- Temperature range -100°C to +300°C
- Inherently Low Fire Hazard (LFH)
- Fully compliant to LUL Std 1-085
- Nickel plated brass fittings



IP40

**P**

**plain hole connector  
nickel plated brass**

Two part fitting comprising shell and body without thread. The body is fitted through the opposite side of the entry to the conduit and acts as a locking device also providing a smooth entry bush.

**90° elbow**

**internal and external  
threaded nickel plated  
brass elbow**

90° elbow which can be screwed onto external threaded fittings.

**locknuts**

**galvanised steel and  
nickel plated brass  
locknuts**

Hexagonal locknut to secure fitting. EMC locknuts have raised corners to ensure good continuity.

**FCC**

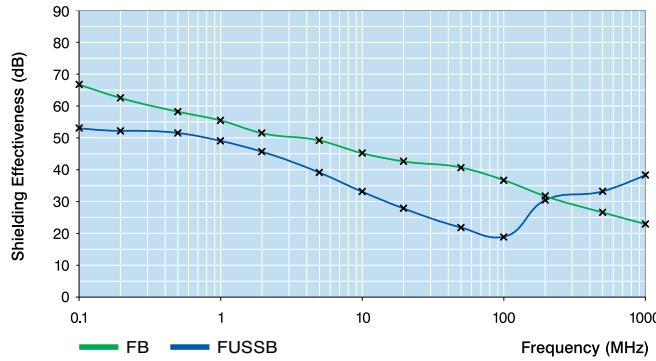
**plated steel P clip  
with pvc liner,  
stainless steel P clips**

P clip to support conduit.

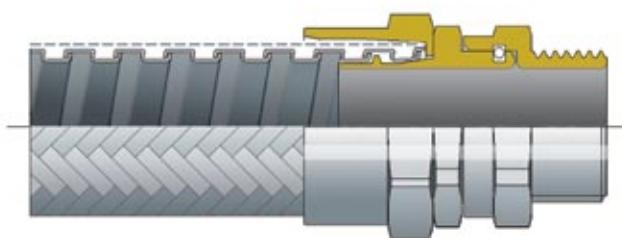


hole size (mm)	part number	metric thread part number	metric thread steel part number	metric thread EMC part number	metric thread brass part number	plated steel part number	stainless steel part number	nominal size (mm)
12	FB12-P	BM90-16M	S-M16	B-M16		FCC12	FCC12-SS*	12
16	FB16-P	BM90-16M	S-M16	B-M16		FCC16	FCC16-SS	16
		BM90-20M	S-M20	B-M20-EMC	B-M20	FCC16	FCC16-SS	16
20	FB20-P	BM90-20M	S-M20	B-M20-EMC	B-M20	FCC20	FCC20-SS	20
25	FB25-P	BM90-25M	S-M25	B-M25-EMC	B-M25	FCC25	FCC25-SS	25
32	FB32-P	BM90-32M	S-M32	B-M32-EMC	B-M32	FCC32	FCC32-SS	32
40	FB40-P	BM90-40M	S-M40	B-M40-EMC	B-M40	FCC40	FCC40-SS	40
51	FB50-P	BM90-50M	S-M50	B-M50		FCC50	FCC50-SS*	50

**EMC SCREENING PERFORMANCE**



**TECHNICAL DRAWING**





# LTPBRD system

galvanised steel core,  
thermoplastic rubber  
coated and stainless  
steel overbraid



## CONDUIT

### LTPBRD

**Construction:** Galvanised steel, helically wound, flexible conduit with thermoplastic rubber cover (same as LTPHC) and stainless steel (grade 316) overbraid.

**Typical Applications:** Very arduous industrial environments such as steel works.

## FITTINGS

IP66 IP67 IP68 IP69K

IP66 IP67 IP68 IP69K

### C

#### external thread nickel plated brass

Multipart compression fitting including nylon seal. Can be used for knockout. Braid is locked between inner and outer compression nuts.

### C-S

#### swivel external thread nickel plated brass

Multipart compression fitting including nylon seal can be used for knockouts or threaded entries. Braid is locked between inner and outer compression nuts.



nominal size (mm)	LTPBRD part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	metric thread part number	metric thread part number
16	LTPBRD16	25	19.3	12.6	45	LTPB16-M16-C	LTPB16-M16-S
16	LTPBRD20	25	22.6	16.0	65	LTPB16-M20-C	LTPB16-M20-S
20	LTPBRD25	25	27.9	21.0	100	LTPB20-M20-C	LTPB20-M20-S
25	LTPBRD32	25	34.6	26.5	135	LTPB25-M25-C	LTPB25-M25-S
32	LTPBRD40	10	43.3	35.4	175	LTPB32-M32-C	LTPB32-M32-S
40	LTPBRD50+	10	49.3	40.4	230	LTPB40-M40-C	LTPB40-M40-S
50	LTPBRD50+	10	49.3	40.4	230	LTPB50-M50-C	LTPB50-M50-S

## ORDERING NOTES

- Add reel length eg: LTPBRD20B-25M for 25m reel

\* Indicates parts made to order on request and may be subject to MOQ and lead time

+ Double interlock section

#### Available on request:

- longer lengths
- 45° available in sizes 16-50mm
- cut lengths and assemblies
- additional sizes
- full copies of independent test report confirming screening effectiveness

#### How to read the fittings code

LTPB20-M20-M

conduit  
thread  
fitting type

BS EN IEC 61386



## STANDARDS

# properties

- High mechanical strength
- Good flexibility
- IP rating: IP66 + IP67 + IP68 (5 bar) IP69K
- Temperature range -45°C to +135°C
- High abrasion resistance
- Very high tensile strength
- Vibration and shock tested to EN61373 Cat 2



IP66 IP67 IP68 IP69K

## C90 elbow

### external threaded elbow nickel plated brass

Multipart compression fitting including nylon seal. Braid is locked between inner and outer compression nuts.

## sealing washers

### fibre face sealing washers

Sealing washer to maintain IP rating of fitting to adjacent equipment.

## locknuts

### galvanised steel and nickel plated brass locknuts

Hexagonal locknut to secure fitting. EMC locknuts have raised corners to ensure good continuity.

## FCC

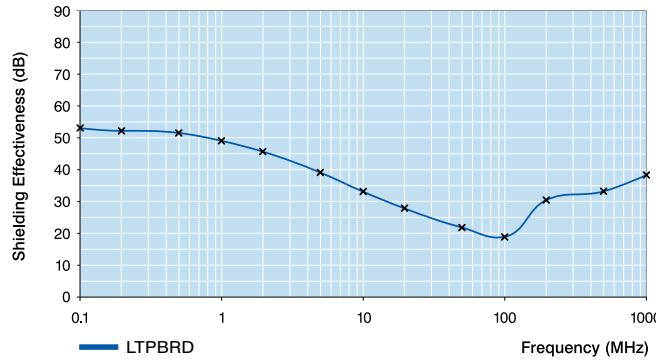
### plated steel P clip with pvc liner, stainless steel P clips

P clip to support conduit.

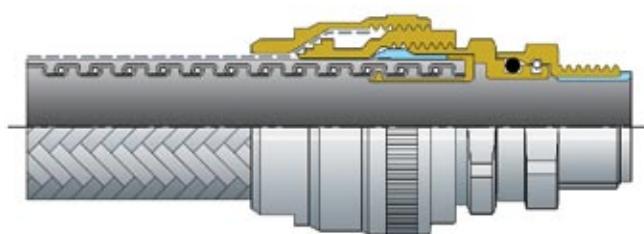


metric thread part number	part number	metric thread part number	metric thread EMC part number	metric thread brass part number	plated steel part number	stainless steel part number	nominal size (mm)
LTPB16-M16-C90	FW16	S-M16	B-M16	FCC16	FCC16-SS		16
LTPB16-M20-C90	FW20						16
LTPB20-M20-C90	FW20	S-M20	B-M20-EMC	B-M20	FCC20	FCC20-SS	20
LTPB25-M25-C90	FW25	S-M25	B-M25-EMC	B-M25	FCC25	FCC25-SS	25
LTPB32-M32-C90	FW32	S-M32	B-M32-EMC	B-M32	FCC32	FCC32-SS	32
LTPB40-M40-C90	FW40	S-M40	B-M40-EMC	B-M40	FCC40	FCC40-SS	40
LTPB50-M50-C90	FW50	S-M50	B-M50	FCC50	FCC50-SS*		50

## EMC SCREENING PERFORMANCE



## TECHNICAL DRAWING





**FPRSS system** corrugated nylon, stainless steel overbraid

EXTRA LOW FIRE HAZARD \*\*

STANDARD EMC SCREEN \*

**FRTC system** corrugated nylon, tinned copper overbraid

EXTRA LOW FIRE HAZARD \*\*

ENHANCED EMC SCREEN \*\*

## CONDUIT

### FPRSS

**Construction:** Standard weight, extra low fire hazard, corrugated nylon (PA6), with stainless steel (316) overbraid.

**Typical Applications:** Metro rail stations for anti-vandal.

### FPISS

**Construction:** Standard weight, corrugated nylon (PA12), with stainless steel (316) overbraid.

**Typical Applications:** Moving machinery where low temperatures, abrasion and impacts occur.

### FRTC

**Construction:** Standard weight, extra low fire hazard, corrugated nylon (PA6), with tinned copper overbraid.

**Typical Applications:** Inside railway carriages where screening is required.

### FPIHSS

**Construction:** Heavy weight, corrugated nylon (PA12), with stainless steel (316) overbraid.

**Typical Applications:** Under railway carriages where low temperatures, abrasion, impact and regular movement occurs.

## FITTINGS

IP67

IP67

### C

**fixed external thread nickel plated brass**

Multipart compression fitting including conduit retention clip and elastomeric seal. Can be used with knockouts. Braid is locked between inner and outer compression nuts.

### C-S

**swivel external thread nickel plated brass**

Multipart compression fitting including conduit retention clip and elastomeric seal. Can be used for knockouts and threaded entries. Braid is locked between inner and outer compression nuts.



nominal size (mm)	FPRSS part number	FRTC part number	FPISS part number	FPIHSS part number	outside dia (mm)	min inside dia (mm)	min inside bend radius (mm)	metric thread part number	metric thread part number	PG thread part number
16	FPRSS16-50M	FPRTC16-50M*	FPISS16-50M*	FPIHSS16-50M	17.3	11.5	35	BC16-M16-C	BC16-M16-S	BC16-PG11-S
20	FPRSS21-50M	FPRTC21-50M*	FPISS21-50M*	FPIHSS21-50M	22.7	15.0	45	BC21-M20-C	BC21-M20-S	BC21-PG16-S
25	FPRSS28-50M	FPRTC28-50M*	FPISS28-50M*	FPIHSS28-50M	30.0	21.3	50	BC28-M25-C	BC28-M25-S	BC28-PG21-S
32	FPRSS34-50M	FPRTC34-50M*	FPISS34-25M*	FPIHSS34-25M	36.0	26.9	60	BC34-M32-C	BC34-M32-S	BC34-PG29-S
40	FPRSS42-25M*	FPRTC42-25M*	FPISS42-25M*	FPIHSS42-25M*	44.0	35.5	70	BC42-M40-C	BC42-M40-S	
50	FPRSS54-25M*	FPRTC54-25M*	FPISS54-25M*	FPIHSS54-25M*	46.0	47.2	80	BC54-M50-C	BC54-M50-S	

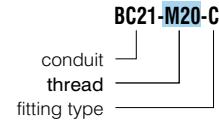
## ORDERING NOTES

\* Indicates parts made to order on request and may be subject to MOQ and lead time

• Available on request:

- longer lengths
- cut lengths and assemblies
- additional sizes
- full copies of independent test report
- confirming screening effectiveness

### How to read the fittings code



## STANDARDS



BS EN IEC 61386



\* refer to conduit properties for applicable standards

## FPISS system

corrugated nylon,  
stainless steel overbraid

STANDARD  
LOW FIRE  
HAZARD \*

STANDARD  
EMC  
SCREEN \*

## FPIHSS system

corrugated nylon,  
stainless steel overbraid

STANDARD  
LOW FIRE  
HAZARD \*

STANDARD  
EMC  
SCREEN \*

## properties

### FPRSS & FPRTC

- Highly flexible and high fatigue life
- High impact strength
- Temperature range -40°C to +120°C
- Extra low fire hazard
- Provides EMC screening  
49dB@1MHz (FPRSS)  
67dB@1MHz (FPRTC)
- FPRSS provides high tensile strength and resistance to abrasion, corrosion and vandals
- Vibration and shock tested to EN61373 Cat 2

### FPISS & FPIHSS

- Highly flexible
- Exceptional fatigue life
- Very high impact resistance even at low temperatures
- Temperature range -50°C to +110°C
- Low fire hazard
- Provides EMC screening 49dB@1MHz
- Provides high tensile strength and resistance to abrasion, corrosion and vandals
- Vibration and shock tested to EN61373 Cat 2

IP67

### C90

#### external thread elbow nickel plated brass

Multipart 90° compression fitting including conduit retention clip and elastomeric seal. Can be used with knockouts. Braid is locked between inner and outer compression nuts.

### 90°elbow

#### internal and external threaded nickel plated brass elbow

90° elbow which can be screwed onto external threaded fittings.

### sealing washers

#### fibre face sealing washers

Sealing washer to maintain IP rating of fitting to adjacent equipment.

### locknuts

#### galvanised steel and nickel plated brass locknuts

Hexagonal locknut to secure fitting. EMC locknuts have raised corners to ensure good continuity.

### FCC

#### plated steel P clip with pvc liner, stainless steel P clips

P clip to support conduit.



metric thread  
part number



metric thread  
part number



part number



metric thread  
steel  
part number



metric thread  
EMC  
part number



metric thread  
brass  
part number



plated steel  
part number

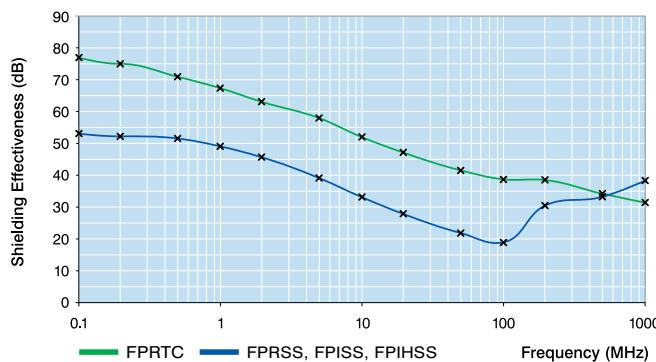


stainless steel  
part number

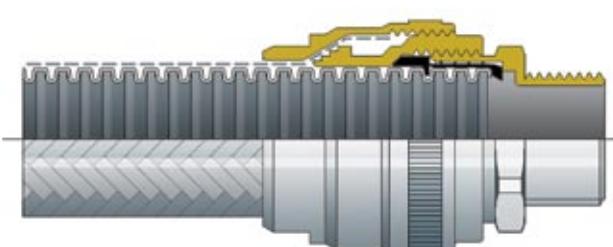
nominal size (mm)

	metric thread part number	BM90-16M	FW16	S-M16	B-M16	FCC16	FCC16-SS	16
BC21-M20-C90		BM90-20M	FW20	S-M20	B-M20-EMC	B-M20	FCC20	FCC20-SS
		BM90-25M	FW25	S-M25	B-M25-EMC	B-M25	FCC25	FCC25-SS
		BM90-32M	FW32	S-M32	B-M32-EMC	B-M32	FCC32	FCC32-SS
		BM90-40M	FW40	S-M40	B-M40-EMC	B-M40	FCC40	FCC40-SS
		BM90-50M	FW50	S-M50	B-M50	FCC50	FCC50-SS*	50

### EMC SCREENING PERFORMANCE



### TECHNICAL DRAWING





# FTCB Braided sleeving

tinned copper braid system  
for EMC screening

NEW

ENHANCED  
EMC  
SCREEN  
★★INHERENT  
LOW FIRE  
HAZARD  
★★★

## properties

- EMC Screening 67dB @ 1Mhz for 20mm
- Minimum optical cover 90%
- Can offer mechanical support
- Can offer abrasion resistance

### OVERBRAID

#### FTCB

**Construction:** Tinned copper braided sleeving. Colour: self colour

**Typical Applications:** Screening of cables from electromagnetic, electrostatic and RF interference. Can be sleeved over cables before they are drawn into conduits.

FTCB part number	Reel length (m)	Nominal I/D(mm)	Usable Ø mm min	Usable Ø mm max	Cross sectional area -mm <sup>2</sup>
FTCB3	100	3.0	2.0	3.5	1.06
FTCB4	100	4.0	3.0	5.0	1.49
FTCB5	100	5.0	4.0	6.0	1.91
FTCB6	100	6.0	5.0	7.0	2.23
FTCB10	50	10.0	7.0	12.0	4.43
FTCB12	50	12.5	11.0	13.0	4.83
FTCB15	50	15.0	13.0	18.0	8.29
FTCB20	50	20.0	17.0	23.0	9.65
FTCB25	50	25.0	22.0	28.0	12.54
FTCB30	25	30.0	27.0	36.0	19.30
FTCB35	25	35.0	30.0	50.0	19.30
FTCB50	25	50.0	45.0	65.0	35.63

IP66

IP66 IP67 IP68 IP69K

#### FPA

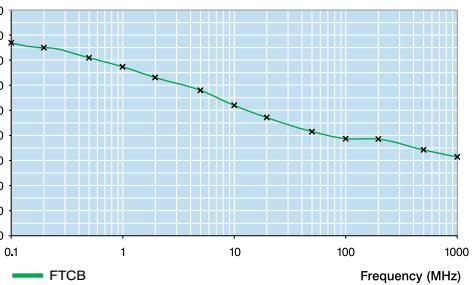
#### FPAX

**Construction:** Nylon PA66 & Nickel Plated Brass. Colour: Black

**Typical Applications:** Straight fitting with internal braid clamp assembly for use with braided sleeving inside corrugated conduit.

Conduit Size (mm)	FPA part number
21	FPA21-M20-SBCA
28	FPA28-M25-SBCA
34	FPA34-M32-SBCA
42	FPA42-M40-SBCA

FPAX part number
FPAX21-M20-SBCA
FPAX28-M25-SBCA
FPAX34-M32-SBCA
FPAX42-M40-SBCA



### Note:

- As the diameter increases towards the maximum expansion the sleeving decreases in length.
- Normally supplied on disposable PVC former or can be supplied in flat form on a reel by request
- Temperature performance:  
-50°C to +300°C

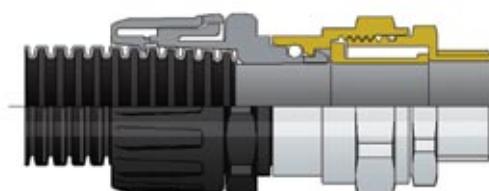


Use with Braid

### ORDERING NOTES

- Available on request:
  - 90° and 45° elbows
  - PG threads

### TECHNICAL DRAWING



# Cable Gland Fittings NEW

cable strain relief and enhanced IP rating for Flexicon conduits

For applications that require the conduit system to provide strain relief and enhanced IP rating to the cables being mechanically protected eg. rail market or heavy machinery construction sector.

## properties

- Combined properties of conduit fitting and cable gland
- Cable strain relief
- Additional IP rating on cable inside conduit\*
- Nickel plated brass fittings
- Cable gland properties: IP68 (10bar) + IP69K
- Temperature range  
-40°C to +100°C for static applications  
-20°C to +100°C for dynamic applications
- EMC cable gland version on request

## CONDUIT

## FITTINGS

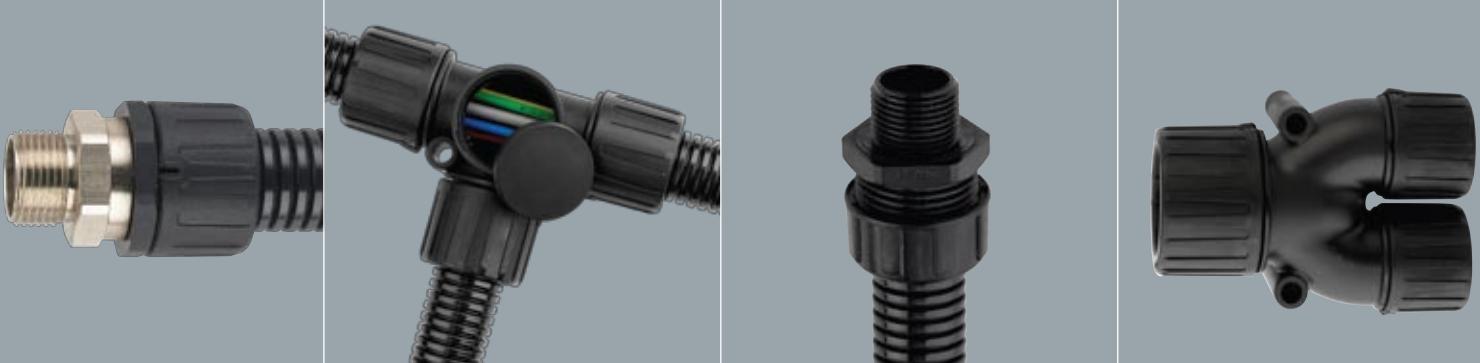
Conduit size (mm)	Part Number	Suitable for the following conduits	Conduit	Fitting	IP rating of conduit system	IP rating of cable gland	Clamping range of cable gland
20	FSU20-M20-CG	FU & SSU			IP40	IP68(10bar)+IP69K	7-13mm 9-17mm 11-21mm
25	FSU25-M25-CG						
32	FSU32-M32-CG						
20	FSU20-M20-CG	FSU, FNU, LFHU and FPU			IP65	IP68(10bar)+IP69K	7-13mm 9-17mm 11-21mm
25	FSU25-M25-CG						
32	FSU32-M32-CG						
20	LTP20-M20-CG	LTP, LTPHC, LTPUL,			IP66+IP67+ IP68(5bar)+IP69K	IP68(10bar)+IP69K	7-13mm 9-17mm 11-21mm
25	LTP25-M25-CG	LTPE, LTPSS,					
32	LTP32-M32-CG	LTPRD, LTBRDLFH and LTPPU					
20	FSB20-M20-CG	FB & FUSSB			IP40	IP68(10bar)+IP69K	7-13mm 9-17mm 11-21mm
25	FSB25-M25-CG						
32	FSB32-M32-CG						
20	FSB20-M20-CG	FSB & LFHUBRD			IP65	IP68(10bar)+IP69K	7-13mm 9-17mm 11-21mm
25	FSB25-M25-CG						
32	FSB32-M32-CG						
20	LTPB20-M20-CG	LTPBRD			IP66+IP67+ IP68(5bar)+IP69K	IP68(10bar)+IP69K	7-13mm 9-17mm 11-21mm
25	LTPB25-M25-CG						
32	LTPB32-M32-CG						
20	LPC20-M20-CG	LPC			IP66+IP67+ IP68(5bar)+IP69K	IP68(10bar)+IP69K	7-13mm 9-17mm 11-21mm
25	LPC25-M25-CG						
32	LPC32-M32-CG						

\* IP rating up to IP68(10bar), IP69K dependent on cable used

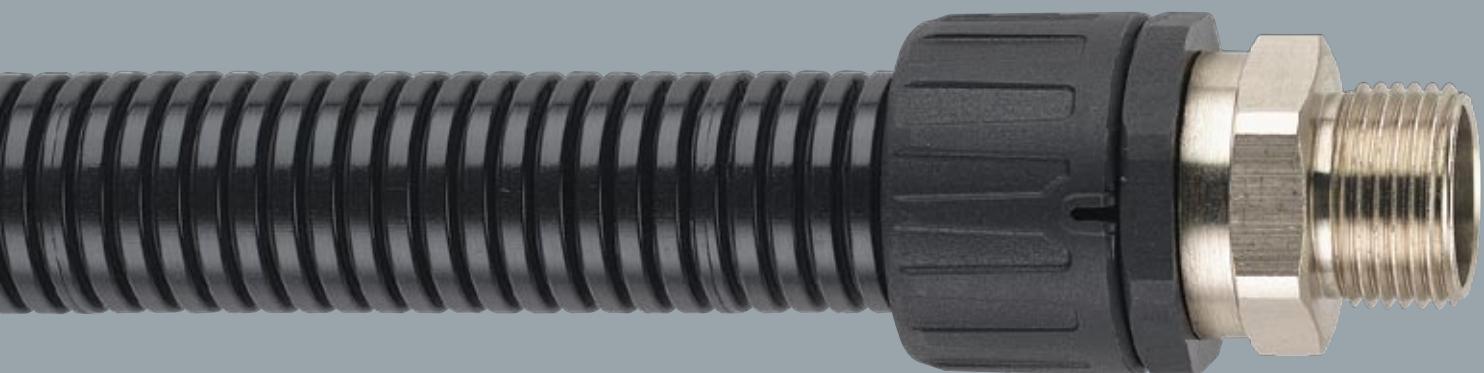
## STANDARDS

BS EN IEC 61386





With over 21 different non metallic conduit systems to choose from we are sure to have a system to meet your application. Systems are available in a wide variety of sizes, ranging from 10mm up to 106mm, manufactured from a range of materials offering different properties.



### Key Features

- Wide range of sizes
- Light weight
- Easy to cut
- High fatigue life
- Superior IP ratings - up to IP69K
- Slit versions available
- Non corrosive
- Highly flexible

### Key Benefits

- Suitable for a wide range of applications
- Easy to work with for ease of installation
- Reduced installation times
- Reduced whole life costs
- No risk of water or dust ingress
- Suitable for retrofit applications
- Suitable for diverse environments
- Movement without any impact on performance





# non-metallic conduit & fittings



BS EN IEC 61386



# non-metallic conduit application guide

Page number	conduit system	IP rating available	compression strength kg/100mm 21/20mm nominal size	pull-off strength kg 21/20mm nominal size	Colours
50	<b>FPAS</b> nylon LFH PA6 corrugated, std weight	IP66, IP67, IP68, IP69K	75	40	Black Grey
50	<b>FPAL</b> nylon PA6 corrugated, light weight	IP66, IP67, IP68, IP69K	60	30	Black Grey
51	<b>FPAH</b> nylon LFH PA6 corrugated, heavy weight	IP66, IP67, IP68, IP69K	120	70	Black
51	<b>FPR</b> nylon extra LFH PA6 corrugated, std weight	IP66, IP67, IP68, IP69K	75	40	Black
51	<b>FPI</b> nylon PA12 corrugated, standard weight	IP66, IP67, IP68, IP69K	45	30	Black
51	<b>FPIH</b> nylon PA12 corrugated, heavy weight	IP66, IP67, IP68, IP69K	60	50	Black
52	<b>FPY</b> nylon PA6 corrugated, light weight	IP40, IP66, IP67, IP68	60	25	Black Grey
52	<b>FPADS</b> nylon PA6 double slit corrugated	IP40	60	15	Black
52&69	<b>FPP</b> polypropylene corrugated, std weight	IP40, IP66, IP67, IP68	35	25	Black, Grey White
52	<b>FPP-NFR</b> polypropylene corrugated non flame retarded	IP40, IP66, IP67, IP68	35	25	Black, Grey
52	<b>FPPH</b> polypropylene corrugated heavy weight	IP40, IP66, IP67, IP68	100	40	Black, Grey
72	<b>FPCB</b> pvc spiral reinforced black	IP65	60	25	Black
72	<b>FPCG</b> pvc spiral reinforced grey	IP65	60	25	Light Grey
72	<b>FPCGN</b> pvc spiral reinforced green oil resistant	IP65	60	25	Green
72	<b>FPCBU</b> pvc spiral reinforced blue high temperature	IP65	60	25	Blue
74	<b>LPC</b> smooth, pvc spiral reinforced	IP67, IP68, IP69K	120	70	Black Light Grey
74	<b>LPCO</b> smooth pvc spiral orange ultra flexible	IP67, IP68, IP69K	120	45	Orange
74	<b>LPCGN</b> smooth pvc spiral green oil resistant	IP67, IP68, IP69K	120	60	Green
74	<b>LPCBU</b> smooth pvc spiral blue high temperature	IP67, IP68, IP69K	120	60	Blue
76&69	<b>FPL</b> upvc corrugated	IP40, IP66, IP67	150	30	Black, Grey White
77	<b>FPY</b> nylon PA6, large diameter, std weight	IP40, IP65	N/A	N/A	Black Grey

For Nylon / FPP ranges: Grey RAL 7031

For FPC and LPC ranges:

Light Grey RAL 7001, Blue RAL 5012  
Green RAL 6001, Orange RAL 2008



# non-metallic conduit and fittings

high fatigue life	temperature range	flexible	pliable	low fire hazard	halogen free	self extinguishing	high abrasion resistance	high UV resistance	
●	-40°C to +120°C	●		●	●	●	●	●	<b>FPAS</b> nylon LFH PA6 corrugated, std weight
●	-40°C to +120°C	●			●	●			<b>FPAL</b> nylon PA6 corrugated, light weight
	-40°C to +120°C	●		●	●	●	●	●	<b>FPAH</b> nylon LFH PA6 corrugated, heavy weight
	-40°C to +120°C	●		●	●	●	●	●	<b>FPR</b> nylon extra LFH PA6 corrugated, std weight
●	-50°C to +110°C	●		●	●	●		●	<b>FPI</b> nylon PA12 corrugated, standard weight
●	-50°C to +110°C	●		●	●	●		●	<b>FPIH</b> nylon PA12 corrugated, heavy weight
●	-40°C to +100°C	●			●	●			<b>FPY</b> nylon PA6 corrugated, light weight
	-40°C to +110°C		●		●	●	●		<b>FPADS</b> nylon PA6 double slit corrugated
	-20°C to +90°C	●				●			<b>FPP</b> polypropylene corrugated, std weight
	-20°C to +90°C	●			●				<b>FPP-NFR</b> polypropylene corrugated non flame retarded
	-20°C to +90°C	●				●			<b>FPPH</b> polypropylene corrugated heavy weight
	-5°C to +70°C	●				●		●	<b>FPCB</b> pvc spiral reinforced black
	-20°C to +70°C	●				●			<b>FPCG</b> pvc spiral reinforced grey
	-20°C to +70°C	●				●			<b>FPCGN</b> pvc spiral reinforced green oil resistant
	-20°C to +90°C	●				●			<b>FPCBU</b> pvc spiral reinforced blue high temperature
	-5°C to +70°C	●				●		●	<b>LPC</b> smooth, pvc spiral reinforced
	-5°C to +70°C	●				●			<b>LPCO</b> smooth pvc spiral orange ultra flexible
	-5°C to +70°C	●				●			<b>LPCGN</b> smooth pvc spiral green oil resistant
	-20°C to +90°C	●				●			<b>LPCBU</b> smooth pvc spiral blue high temperature
	-5°C to +70°C		●			●		●	<b>FPL</b> upvc corrugated
	-40°C to +120°C	●			●	●		●	<b>FPY</b> nylon PA6, large diameter, std weight



90 **thread data**



91 **technical guidance**



94 **low fire hazard**



# non-metallic selection guide



BS EN IEC 61386



- UK manufactured products to the highest standards
- Highest IP performance as standard
- Highest tensile strength performance fittings - FPA and FPAX due to all round teeth design
- Simple construction for ease of installation - Fixed and Swivel versions

- Multiple thread variations available - Metric, PG, NPT, UNEF, external threads, internal threads, integral strain relief versions
- Tested and approved to the latest National and International Standards
- Vibration tested for secure installations
- Widest choice whatever your application

**Flexilok™ fittings**

IP66

See Pg 68

**Compression fittings**

IP40 IP67

See Pg 72, 73, 74 & 75

**Jumbo**

IP40 IP65

See Pg 77

Accessories	Stopping Plugs	Clips

See Pg 78 & 79



## FPA

Straight Fittings - 10mm to 67mm

IP66



See Pg 54 & 57

IP66

90 deg elbow - 10mm to 67mm



See Pg 54, 55, 57 & 58

IP66

45 deg elbow - 16mm to 54mm



See Pg 55, 56 & 58

IP66

Coupler	Coupler - Flexible to Rigid conduit	T-pieces	Reducing Divider	Reducer
---------	-------------------------------------	----------	------------------	---------



See Pg 56

IP66

See Pg 66

Fittings with integral strain relief



See Pg 42 & 59



## FPAX

Straight Fittings - 10mm to 67mm

IP66 IP67 IP68 IP69K



See Pg 60 & 63

IP66 IP67 IP68 IP69K

90 deg elbow - 10mm to 67mm



See Pg 61, 63 & 64

IP66 IP67 IP68 IP69K

45 deg elbow - 16mm to 54mm



See Pg 62 & 64

IP66 IP67 IP68 IP69K

T-pieces Reducer Reducing Divider



See Pg 67

IP66 IP67 IP68 IP69K

Fittings with integral strain relief strain relief



See Pg 65

# non-metallic conduit and fittings

Non-metallic systems are typically lighter, easier to work with and more cost effective to install. With advances in material technologies non-metallic systems can provide an alternative solution where typically only metal systems had been considered previously.

We have a range of products which can offer properties dependant on your requirement for impact resistance, flexibility, fatigue life, operating temperature and fire performance to name but a few.

## FPAS



**Construction:** Standard weight flame retardant nylon (PA6) corrugated flexible conduit. Colour black or grey (RAL 7031). Orange available on request.\*

**Typical Applications:** All types of machinery, public buildings.

- Highly flexible and high fatigue life
- High impact strength and recovers if crushed
- Temperature range -40°C to +120°C (-20°C to +100°C for moving applications)
- Lloyd's Register Type Approval
- UL listed / UL recognised
- Low Fire Hazard (LFH), see page 94
- UL 94 V2 flame retardancy
- Halogen, sulphur and phosphorus free
- UV resistant (black)
- Abrasion resistant
- Highly resistant to solvents and oils

## FPAL

**Construction:** Light weight nylon (PA6) corrugated flexible conduit. Colour black or grey (RAL 7031).

**Typical Applications:** Machines where lower mechanical protection is required and buildings.

- Highly flexible and high fatigue life
- High impact strength and recovers if crushed
- Temperature range -40°C to +120°C (-20°C to +100°C for moving applications)
- UL recognised
- Highly resistant to solvents and oils
- Self extinguishing
- Halogen, sulphur and phosphorus free



european (NW) sizes  
nominal size (mm)  
pitch

**FPAS**  
part number

			reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)				reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)
7	10	F	FPAS10	50	10.0	6.3	15	FPAL10	50	10.0	6.5	15	
8	11	F	FPAS11	50	11.5	8.2	20	FPAL11	50	11.5	8.4	20	
10	13	F	FPAS13	50	13.0	9.8	25	FPAL13	50	13.0	10.0	25	
12	16	F	FPAS16	25, 50	15.8	11.8	35	FPAL16	50	15.8	12.0	35	
14	18	F	FPAS18	50	18.5	14.2	40	FPAL18	50	18.5	14.2	35	
20	C		FPAS20	50	20.0	14.8	45	FPAL20	50	20.0	15.0	40	
17	21	F	FPAS21	25, 50	21.2	16.7	45	FPAL21	50	21.2	16.9	40	
21	C		FPAS25	50	25.0	19.1	50	FPAL25	50	25.0	19.3	45	
22	25.4	F	FPAS28	25, 50	28.5	22.8	50	FPAL28	50	28.5	23.0	45	
23	28	F	FPAS28*	50	28.5	21.6	50						
28	C		FPAS34	25, 50	34.5	28.1	60	FPAL34	25, 50	34.5	28.3	55	
29	34	C	FPAS34F	25, 50	34.5	28.8	60						
36	42	C	FPAS42	10, 25	42.5	35.5	70	FPAL42	25	42.5	35.7	65	
48	54	C	FPAS54	10, 25	54.5	47.2	80	FPAL54	25	54.5	47.4	80	
56	67	C	FPAS67	10	67.2	56.3	130	FPAL67	10	67.2	56.5	110	

F = fine pitch C = coarse pitch

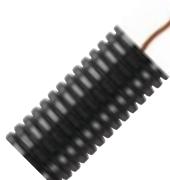
NOTE: Other reel lengths are available upon request

## ORDERING NOTES

- Specify black or grey (B = Black, G = Grey) and reel length eg: FPAS21B-50M for a Black 50m reel
- See cutting tool page 81

\* Indicates parts made to order on request and may be subject to MOQ and lead time

- Available on request:**
  - longer lengths and bulk packaging
  - cut lengths and assemblies
  - other colours
  - full copies of independent test results confirming LFH properties
  - conduit with pre-installed draw wire
  - fine pitch 34mm sizes



<b>FPAH</b>		<b>FPR</b>		<b>FPI</b>		<b>FPIH</b>														
																				
<b>Construction:</b> Heavy weight, flame retardant, nylon (PA6) corrugated flexible conduit. Colour black.	<b>Construction:</b> Standard weight nylon (highly flame retardant PA6) corrugated flexible conduit. Colour black.	<b>Construction:</b> Standard weight nylon (PA12) corrugated flexible conduit. Colour black.	<b>Construction:</b> Heavy weight nylon (PA12) corrugated flexible conduit. Colour black.																	
<b>Typical Applications:</b> All types of machinery and public buildings where high mechanical strength required.	<b>Typical Applications:</b> Railways, underground and public buildings.	<b>Typical Applications:</b> Robots and continual flexing.	<b>Typical Applications:</b> Robots and continual flexing where higher mechanical strength required.																	
<ul style="list-style-type: none"> <li>High mechanical strength</li> <li>High impact resistance</li> <li>Temperature range -40°C to +120°C</li> <li>UL recognised</li> <li>Low Fire Hazard (LFH), see page 94</li> <li>UL 94 V2 flame retardancy</li> <li>Halogen, sulphur and phosphorus free</li> <li>UV resistant</li> <li>Abrasion resistant</li> <li>Highly resistant to solvents and oils</li> </ul>	<ul style="list-style-type: none"> <li>Highly flexible and high fatigue life</li> <li>High impact strength and recovers if crushed</li> <li>Temperature range -40°C to +120°C (-20°C to +100°C for moving applications)</li> <li>UL recognised</li> <li>Lloyd's Register Type Approval</li> <li>Extra Low Fire Hazard (LFH)</li> <li>Compliant to LUL Std 1-085</li> <li>UL 94 V0 flame retardancy</li> <li>Halogen, sulphur and phosphorus free</li> <li>UV resistant</li> <li>Abrasion resistant</li> <li>Highly resistant to solvents and oils</li> </ul>	<ul style="list-style-type: none"> <li>Highly flexible</li> <li>Exceptional fatigue life</li> <li>High impact resistance even at very low temperatures</li> <li>UV resistant</li> <li>Displays self recovery if crushed</li> <li>Temperature range -50°C to +110°C</li> <li>UL recognised</li> <li>Highly resistant to solvents and oils</li> <li>Self extinguishing</li> <li>Low fire hazard</li> <li>Halogen, sulphur and phosphorus free</li> </ul>	<ul style="list-style-type: none"> <li>Highly flexible and high fatigue life</li> <li>High mechanical strength</li> <li>High impact resistance even at very low temperatures</li> <li>UV resistant</li> <li>Displays self recovery if crushed</li> <li>Temperature range -50°C to +110°C</li> <li>UL recognised</li> <li>Highly resistant to solvents and oils</li> <li>Self extinguishing</li> <li>Low fire hazard</li> <li>Halogen, sulphur and phosphorus free</li> </ul>																	
																				
nominal size (NW) pitch	<b>FPAH</b> part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	<b>FPR</b> part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	<b>FPI</b> part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	<b>FPIH</b> part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)
7 10 F						FPR10	50	10.0	6.3	15										
8 11 F						FPR13	50	13.0	9.8	25	FPI13	50	13.0	9.8	25	FPIH13	50	13.0	9.0	25
10 13 F	FPAH13	50	13.0	9.0	35	FPR13	50	13.0	9.8	25	FPI13	50	13.0	9.8	25	FPIH13	50	13.0	9.0	25
12 16 F	FPAH16	50	15.8	11.5	45	FPR16	50	15.8	11.8	35	FPI16	50	15.8	11.8	30	FPIH16	50	15.8	11.5	35
14 18 F						FPR20	50	20.0	14.8	45										
20 C						FPR21	50	21.2	16.7	45	FPI21	50	21.2	16.7	35	FPIH21	50	21.2	15.0	45
17 21 F						FPR25	50	25.0	19.1	50										
21 C	FPAH21	50	21.2	15.5	55															
25 C																				
22 25.4 F																				
23 28 F																				
28 C	FPAH28	50	28.5	21.3	60	FPR28	50	28.5	21.7	50	FPI28	50	28.5	21.7	45	FPIH28	50	28.5	21.3	50
29 34 C	FPAH34	25	34.5	26.9	70	FPR34	50	34.5	28.1	60	FPI34	25	34.5	28.1	55	FPIH34	25	34.5	26.9	60
29 34 F																				
36 42 C	FPAH42	25	42.5	34.6	80	FPR42	25	42.5	35.5	70	FPI42	25	42.5	35.5	60	FPIH42	25	42.5	34.6	70
48 54 C	FPAH54	25	54.5	46.0	90	FPR54	25	54.5	47.2	80	FPI54	25	54.5	47.2	70	FPIH54	25	54.5	46.0	80
56 67 C																				

F = fine pitch    C = coarse pitch

## STANDARDS

\* refer to conduit properties for applicable standards



BS EN IEC 61386



## IMPORTANT NOTE

- For LFH performance see page 94

## FPY

**Construction:** Light weight nylon (PA6) corrugated flexible conduit. Colour black or grey (RAL 7031) on request.

**Typical Applications:** Machines and commercial vehicles.

- Highly flexible and high fatigue life
- High impact strength and recovers if crushed
- Temperature range -40°C to +100°C
- Highly resistant to solvents and oils
- Self extinguishing
- Halogen, sulphur and phosphorus free
- FPY6 also available, 7.3mm OD x 5mm ID
- Slit version, FPYS, also available. Cable can be inserted laterally using tool shown on page 81.



## FPADS

**Construction:** Double slit nylon (PA6) corrugated conduit. Colour black.

**Typical Applications:** Retrofit.

- Made from 2 interlocking slit corrugated conduits
- Temperature range -40°C to +120°C
- Cables can be inserted laterally
- Provides abrasion resistance and routing of cables for static applications
- Self extinguishing
- Halogen, sulphur and phosphorus free



## FPP

**Construction:** Standard weight polypropylene, flexible conduit. Colour black, grey (RAL 7031) or white.

**Typical Applications:** Buildings, particularly where buried in concrete or plaster.

- Acid resistant
- Temperature range -20°C to +90°C
- Self extinguishing
- Slit version available on request\*

**Other options available:**

### FPP-NFR

NEW

LSOH conduit for data calling applications

## FPPH

NEW

Heavy weight conduit for buried underground applications.



european (NW) sizes  
nominal size (mm)

pitch	FPY	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	FPADS	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	FPP	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	FCL
7 10 F	FPY8	50	10.0	6.5	15								FPP10	50	10.0	6.3	15		FCL10
8 11 F	FPY10	50	11.5	8.5	20		FPADS11*	50	11.5	6.2	70								FCL13
10 13 F	FPY12	50	13.0	10.0	25		FPADS13	50	13.0	7.9	75		FPP13	50	13.0	9.8	25		FCL16
12 16 F	FPY16	50	16.1	12.8	35		FPADS16	50	15.8	10.3	100		FPP16	50	15.8	11.8	35		FCL18
14 18 F													FPP20	50	20.0	14.8	40		FCL20
20 C													FPP21	50	21.2	16.7	40		FCL21
17 21 F	FPY20	50	21.2	16.9	40		FPADS21	50	21.2	13.9	120		FPP25	50	25.0	19.1	50		FCL25
21 C													FPP26	50	25.4	21.4	50		FCL28
25 C													FPP28	50	28.5	22.8	55		FCL34
22 25.4 F	FPY25	50	25.4	21.4	45								FPP34	50	34.5	28.1	65		FCL42
23 28 F	FPY28	50	28.5	23.0	45		FPADS28	50	28.5	20.5	170		FPP42	25	42.5	35.5	80		FCL54
28 C													FPP54	25	54.5	47.2	100		
29 34 C	FPY32	25	34.5	28.3	55		FPADS34	25	34.5	26.6	180		FPP67	10	67.2	56.3	150		
29 34 F																			
36 42 C	FPY40	25	42.5	35.7	65		FPADS42	25	42.5	32.0	200								
48 54 C	FPY50	25	54.5	47.4	80		FPADS54	25	54.5	43.0	240								
56 67 C																			

F = fine pitch   C = coarse pitch

NOTE: FPP - NFR  
and FPPH

Contact us for more details

## ORDERING NOTES

- Specify colour (B = Black, G = Grey)  
and reel length eg: FPY16B-50M for a Black 50m reel

- Available on request:
  - longer lengths and bulk packaging
  - cut lengths and assemblies
  - additional sizes
  - other colours
  - conduit with pre-installed draw wire
  - FPADS in PP



# non-metallic conduit and fitting

To make your selection from our wide range of flexible conduits easier, we have devised a table (see below) which offers a one page summary to help you when you come to select your fittings.

We have a wide selection of fittings that can be used with the conduits listed below.

Simply use the pull out page as a guide to see which fittings from the FPA, FPAX, Flexilok, T-pieces, MP, MPS and MSL you can use with your chosen conduit.



Using this fold out page will illustrate the wide range of non metallic corrugated conduits we offer. There are nine different non metallic conduit families listed in this spread and these are detailed across Pages 50 - 52.

## Ordering Notes

Once you have chosen your conduit from our wide range of products listed on Pages 50, 51 and 52, simply use this fold out page as a guide to see which fittings correspond with your selected conduit.

The fold out conduit summary chart below lines up with the respective subsequent fittings pages to allow you to still see your selected conduit, whilst selecting your fittings.

euopean (NW) sizes	nominal size (mm)	<b>Fpas</b>	<b>FPAL</b>	<b>FPAH</b>	<b>FPR</b>	<b>FPI</b>	<b>FPIH</b>	<b>FPY</b>	<b>FPADS</b>	<b>FPP</b>
pitch	part number	part number	part number	part number	part number	part number	part number	part number	part number	part number
7 F 10	FPAS10	FPAL10		FPR10				FPY8		
7 F 10										
8 F 11	FPAS11	FPAL11						FPY10	FPADS11	
10 F 13	FPAS13	FPAL13	FPAH13	FPR13	FPI13	FPIH13	FPY12	FPADS13	FPP13	
10 F 13										
10 C 13										
12 F 16	FPAS16	FPAL16	FPAH16	FPR16	FPI16	FPIH16		FPADS16	FPP16	
12 C 16										
12 C 16										
12 F 16							FPY16			
14 F 18	FPAS18	FPAL18								
14 C 18										
C 20	FPAS20			FPR20						FPP20
17 F 21	FPAS21	FPAL21		FPR21	FPI21		FPY20			FPP21
C 21			FPAH21			FPIH21		FPADS21		
C 21										
C 25	FPAS25	FPAL25		FPR25						FPP25
22 F 25.4							FPY25			FPP26
23 F 28	FPAS28	FPAL28		FPR28			FPY28			FPP28
C 28	FPAS28C		FPAH28		FPI28	FPIH28		FPADS28		
29 C 34	FPAS34	FPAL34	FPAH34	FPR34	FPI34	FPIH34	FPY32	FPADS34		FPP34
29 F 34	FPAS34F									
36 C 42	FPAS42	FPAL42	FPAH42	FPR42	FPI42	FPIH42	FPY40	FPADS42		FPP42
36 C 42										
48 C 54	FPAS54	FPAL54	FPAH54	FPR54	FPI54	FPIH54	FPY50	FPADS54		FPP54
48 C 54										
56 C 67	FPAS67	FPAL67			FPI67					FPP67

## ORDERING NOTES



IEC EN 61386



# FPA system nylon

**Construction:** Nylon (PA66) moulded fitting.



IP66



## FITTINGS

IP66

IP66

IP66

IP66

### FPA

### FPA

### FPA

### FPA90

#### straight external thread

One piece, fast fit, external threaded fitting. Suitable for knockouts or threaded entries.

#### straight UNEF swivel internal thread

One piece, fast fit fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors.

#### flange

One piece, fast fit fitting with nylon swivel flange.

#### 90° elbow external thread

One piece, fast fit, external threaded 90 degree elbow fitting. Suitable for knockouts.



european (NW) sizes  
nominal size (mm)

		OD mm	Ext Metric	Ext PG	Ext NPT	Ext UNEF	Thread	Ext Flange	90 Degree Metric	90 Degree PG	90 Degree NPT
7	10	10.0	<b>FPA10-M12</b>	<b>FPA10-PG7</b>					<b>FPA10-M12-90</b>	<b>FPA10-PG7-90</b>	
7	10		<b>FPA10-M16</b>	<b>FPA10-PG9</b>							
8	11	11.5	<b>FPA11-M12</b>	<b>FPA11-PG7</b>					<b>FPA11-M12-90</b>		
10	13	13.0	<b>FPA13-M12</b>	<b>FPA13-PG7</b>					<b>FPA13-M16-90</b>	<b>FPA13-PG9-90</b>	
10	13		<b>FPA13-M16</b>	<b>FPA13-PG9</b>							
10	13		<b>FPA13-M20</b>	<b>FPA13-PG11</b>							
12	16	15.8	<b>FPA16-M16</b>	<b>FPA16-PG9</b>	<b>FPA16-038</b>	<b>FPA16-BU075</b>	( $\frac{3}{4}$ "")	<b>FPA16-FL</b>	<b>FPA16-M16-90</b>	<b>FPA16-PG9-90</b>	<b>FPA16-050-90</b>
12	16		<b>FPA16-M20</b>	<b>FPA16-PG11</b>	<b>FPA16-050</b>	<b>FPA16-BU100</b>	(1")		<b>FPA16-M20-90</b>	<b>FPA16-PG11-90</b>	
12	16				<b>FPA16-PG13</b>	<b>FPA16-BU119</b>	( $1\frac{3}{16}$ ")			<b>FPA16-PG13-90</b>	
12	16	16.1			<b>FPA16-PG16</b>						
14	18	18.5	<b>FPA18-M20</b>	<b>FPA18-PG13</b>					<b>FPA18-M20-90</b>	<b>FPA18-PG13-90</b>	
14	18				<b>FPA18-PG16</b>					<b>FPA18-PG16-90</b>	
	20	20.0	<b>FPA20-M20</b>						<b>FPA20-M20-90</b>		
17	21	21.2	<b>FPA21-M20</b>	<b>FPA21-PG13</b>	<b>FPA21-050</b>	<b>FPA21-BU100</b>	(1")	<b>FPA21-FL</b>	<b>FPA21-M20-90</b>	<b>FPA21-PG13-90</b>	<b>FPA21-050-90</b>
	21				<b>FPA21-PG16</b>	<b>FPA21-BU119</b>	( $1\frac{1}{16}$ ")			<b>FPA21-PG16-90</b>	
	21					<b>FPA21-BU138</b>	( $1\frac{3}{8}$ ")				
	25	25.0	<b>FPA25-M25</b>						<b>FPA25-M25-90</b>		
22	25.4	25.4									
23	28	28.5	<b>FPA28-M25</b>	<b>FPA28-PG21</b>	<b>FPA28-075</b>	<b>FPA28-BU144</b>	( $1\frac{1}{16}$ ")	<b>FPA28-FL</b>	<b>FPA28-M25-90</b>	<b>FPA28-PG21-90</b>	<b>FPA28-075-90</b>
	28		<b>FPA28-M32</b>	<b>FPA28-PG29</b>		<b>FPA28-BU175</b>	( $1\frac{1}{4}$ ")				
29	34	34.5	<b>FPA34-M32</b>	<b>FPA34-PG29</b>	<b>FPA34-100</b>	<b>FPA34-BU175</b>	( $1\frac{1}{4}$ ")	<b>FPA34-FL</b>	<b>FPA34-M32-90</b>	<b>FPA34-PG29-90</b>	<b>FPA34-100-90</b>
29	34		<b>FPA34-M40</b>								
36	42	42.5	<b>FPA42-M40</b>	<b>FPA42-PG36</b>	<b>FPA42-125</b>	<b>FPA42-BU200</b>	(2")	<b>FPA42-FL</b>	<b>FPA42-M40-90</b>	<b>FPA42-PG36-90</b>	<b>FPA42-125-90</b>
36	42		<b>FPA42-M50</b>		<b>FPA42-150</b>	<b>FPA42-BU225</b>	( $2\frac{1}{4}$ ")		<b>FPA42-M50-90</b>		<b>FPA42-150-90</b>
48	54	54.5	<b>FPA54-M50</b>	<b>FPA54-PG42</b>	<b>FPA54-150</b>	<b>FPA54-BU200</b>	(2")		<b>FPA54-M50-90</b>	<b>FPA54-PG48-90</b>	<b>FPA54-150-90</b>
48	54		<b>FPA54-M63</b>	<b>FPA54-PG48</b>	<b>FPA54-200</b>	<b>FPA54-BU225</b>	( $2\frac{1}{4}$ ")		<b>FPA54-M63-90</b>		<b>FPA54-200-90</b>
56	67	67.0	<b>FPA67-M63</b>	<b>FPA67-PG48</b>	<b>FPA67-200</b>				<b>FPA67-M63-90</b>	<b>FPA67-PG48-90</b>	<b>FPA67-200-90</b>

## ORDERING NOTES

- Specify black or grey (B = Black, G = Grey) eg. FPA16-M16B
- The IP rating onto a UNEF threaded connector may be dependent on the design of the connector
- \* Indicates parts made to order on request and may be subject to MOQ and lead time

- Available on request:**
  - additional sizes, alternative threads
  - additional UNEF threads and combinations
  - all nylon UNEF threads

# properties

- 1 part fast fit
- IP rating: IP66
- Vibration and shock tested to EN61373 Cat 2
- Tamper resistant
- All round teeth give high pull off strength  
70kg with FPAH21

- Can be removed using a screwdriver
- Both 90° and 45° elbows incorporate swept bore to facilitate cable installation and protect cables when installed
- Suitable for fine and coarse pitch conduits
- Temperature range -50°C to +135°C
- Metric nylon threads supplied complete with locknuts

- Swivel UNEF threads allow assembly to military style electrical connectors without twisting of cables and includes sealing 'O' ring.
- Low Fire Hazard (LFH), see page 90
- Halogen, sulphur and phosphorus free
- Available in black or grey (RAL 7031)



## FPA90

### 90° elbow UNEF swivel internal thread

One piece, fast fit, 90 degree elbow fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors.



## FPA90

### flange

One piece, fast fit 90 degree elbow fitting with nylon swivel flange.



## FPA45

### 45° elbow external thread

One piece, fast fit, external threaded 45 degree elbow fitting. Suitable for knockouts.



## FPA45

### 45° elbow UNEF swivel internal thread

One piece, fast fit, 45 degree elbow fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors.



nominal size (mm)  
00 mm

90 Degree UNEF	Thread	90 Degree Flange	45 Degree Metric	45 Degree PG	45 Degree NPT	45 Degree UNEF	Thread	10	10.0
FPA16-BU075-90	( $\frac{3}{4}$ "")	FPA16-FL-90	FPA16-M20-45	FPA16-PG13-45	FPA16-050-45	FPA16-BU100-45	( $\frac{3}{4}$ ")	10	10.0
FPA16-BU100-90	(1")					FPA16-BU119-45	(1")	10	11.5
FPA16-BU119-90	( $\frac{13}{16}$ ")							13	13.0
								13	
								13	
								16	
FPA21-BU100-90	(1")	FPA21-FL-90	FPA21-M20-45	FPA21-PG13-45	FPA21-050-45	FPA21-BU100-45	(1")	16	15.8
FPA21-BU119-90	( $\frac{13}{16}$ ")					FPA21-BU119-45	( $\frac{13}{16}$ ")	16	
FPA21-BU138-90	( $\frac{13}{8}$ ")							16	16.1
								16	
								18	18.5
								18	
								20	20.0
FPA21-BU100-90	(1")	FPA21-FL-90	FPA21-M20-45	FPA21-PG13-45	FPA21-050-45	FPA21-BU100-45	(1")	21	21.2
FPA21-BU119-90	( $\frac{13}{16}$ ")					FPA21-BU119-45	( $\frac{13}{16}$ ")	21	
FPA21-BU138-90	( $\frac{13}{8}$ ")					FPA21-BU138-45	( $\frac{13}{8}$ )	21	
								25	25.0
								25.4	25.4
FPA28-BU144-90	( $\frac{17}{16}$ ")	FPA28-FL-90	FPA28-M25-45	FPA28-PG21-45	FPA28-075-45	FPA28-BU144-45	( $\frac{17}{16}$ ")	28	28.5
FPA28-BU175-90	( $\frac{13}{4}$ ")					FPA28-BU175-45	( $\frac{13}{4}$ )	28	
FPA34-BU175-90	( $\frac{13}{4}$ ")	FPA34-FL-90	FPA34-M32-45	FPA34-PG29-45	FPA34-100-45	FPA34-BU175-45	( $\frac{13}{4}$ )	34	34.5
								34	
FPA42-BU200-90	(2")	FPA42-FL-90	FPA42-M50-45	FPA42-PG36-45	FPA42-150-45	FPA42-BU200-45	(2")	42	42.5
FPA42-BU225-90	( $\frac{21}{4}$ ")					FPA42-BU225-45	( $\frac{21}{4}$ )	42	
FPA54-BU200-90	(2")	FPA54-FL-90*	FPA54-M50-45		FPA54-150-45	FPA54-BU200-45	(2")	54	54.5
FPA54-BU225-90	( $\frac{21}{4}$ ")					FPA54-BU225-45	( $\frac{21}{4}$ )	54	
								67	67.0

## STANDARDS



BS EN IEC 61386





## FPA system nylon

**Construction:** Nylon (PA66) moulded fittings.

## FPA system brass threaded

**Construction:** Nylon (PA66) moulded fitting with nickel plated brass swivel thread. Colour black or grey.



IP66

### FITTINGS

IP66

#### FPA45

##### flange

One piece, fast fit 45 degree elbow fitting with nylon swivel flange.



IP66

#### FPA-FPA

##### coupler

One piece, fast fit, coupler to join corrugated conduits. Also available in FPAX version.



IP66

#### FPA-MPC

##### coupler

One piece, fast fit, coupler to join corrugated conduit to rigid conduit.



nominal size (mm)	OD mm	45 Degree Flange	Coupler	Rigid Conduit Coupler
7 10	10.0			
7 10				
8 11	11.5			
10 13	13.0			
10 13				
10 13				
12 16	15.8	FPA16-FL-45	FPA16-FPA16	FPA16-MPC16
12 16				
12 16				
12 16	16.1			
14 18	18.5			
14 18				
20	20.0		FPA20-FPA20	
17 21	21.2	FPA21-FL-45	FPA21-FPA21	FPA21-MPC20
17 21				
17 21				
25	25.0		FPA25-FPA25	
22 25.4	25.4			
23 28	28.5	FPA28-FL-45	FPA28-FPA28	FPA28-MPC25
23 28				
29 34	34.5	FPA34-FL-45	FPA34-FPA34	FPA34-MPC32
29 34				
36 42	42.5	FPA42-FL-45		FPA42-MPC40
36 42				
48 54	54.5	FPA54-FL-45	FPA54-FPA54	
48 54				
56 67	67.0			

### ORDERING NOTES

\* Indicates parts made to order on request

• NPB = Nickel Plated Brass

#### Available on request:

- colour grey, other threads
- for brass locknuts and sealing washers see accessories, page 78
- EMC braid clamp version see page 42

# properties

- 1 part fast fit
- IP rating: IP66
- Vibration and shock tested to EN61373 Cat 2
- Tamper resistant
- Can be removed using a screwdriver
- All round teeth give high pull off strength 70kg with FPAH21

- Both 90° and 45° elbows incorporate swept bore to facilitate cable installation and protect cables when installed
- Suitable for fine and coarse pitch conduits
- Temperature range -50°C to +135°C
- Low Fire Hazard (LFH), see page 94
- Halogen, sulphur and phosphorus free
- Available in black or grey (RAL 7031)



IP66

## FPA

### straight swivel brass external thread

One piece, fast fit, swivel, nickel plated brass external threaded fitting. Suitable for knockouts or threaded entries.



IP66

## FPA

### straight swivel brass internal thread

One piece, fast fit, swivel, nickel plated brass internal threaded fitting.



IP66

## FPA90

### 90° elbow swivel brass external thread

One piece, fast fit, swivel, 90 degree elbow, nickel plated brass external threaded fitting. Suitable for knockouts or threaded entries.

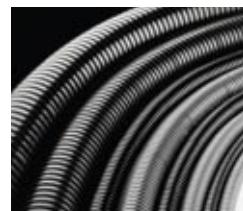


		nominal size (mm)	0D mm	european (NW) sizes
		10	10.0	7
		10		7
		11	11.5	8
FPA13-BM16	FPA13-BPG9	13	13.0	10
		13		10
		13		10
FPA16-BM16	FPA16-BPG9	16	15.8	12
FPA16-BM20	FPA16-BPG11	16		12
		16	16.1	12
		18	18.5	14
		18		14
FPA21-BM20	FPA21-BPG13	20	20.0	
	FPA21-BPG16	21	21.2	17
		21		17
		25	25.0	
FPA28-BM25	FPA28-BPG21	25.4	25.4	22
		28	28.5	23
		28		23
FPA34-BM32	FPA34-BPG29	34	34.5	29
		34		29
FPA42-BM40	FPA42-BFM40	42	42.5	36
FPA42-BM50		42		36
FPA54-BM50	FPA54-BFM50	54	54.5	48
FPA54-BM63		54		48
FPA67-BM63		67	67.0	56

## STANDARDS



BS EN IEC 61386





# FPA system brass threaded

**Construction:** Nylon (PA66) moulded fitting with nickel plated brass swivel thread. Colour black or grey.



IP66

## FITTINGS

IP66

### FPA90

#### 90° elbow swivel brass internal thread

One piece, fast fit, swivel, 90 degree elbow, nickel plated brass internal threaded fitting.



IP66

### FPA45

#### 45° elbow swivel brass external thread

One piece, fast fit, swivel, 45 degree elbow, nickel plated brass external threaded fitting. Suitable for knockouts or threaded entries.



IP66

### FPA45

#### 45° elbow swivel brass internal thread

One piece, fast fit, swivel, 45 degree elbow, nickel plated brass internal threaded fitting.



european (NW) sizes  
nominal size (mm)

00 mm

NPB Int Metric

NPB Int PG

NPB Ext Metric

NPB Ext PG

NPB Int Metric

NPB Int PG

7	10	10.0				
7	10					
8	11	11.5				
10	13	13.0	FPA13-BFM16-90	FPA13-BFPG9-90		
10	13					
10	13					
12	16	15.8	FPA16-BFM16-90	FPA16-BFPG11-90	FPA16-BM16-45	FPA16-BPG13-45
12	16		FPA16-BFM20-90	FPA16-BFPG16-90	FPA16-BM20-45	FPA16-BPG16-45
12	16					
12	16	16.1				
14	18	18.5				
14	18					
20	20	20.0				
17	21	21.2	FPA21-BFM20-90	FPA21-BFPG16-90	FPA21-BM20-45	FPA21-BPG13-45
17	21				FPA21-BPGL6-45	FPA21-BFPG16-45
17	21					
25	25	25.0				
22	25.4	25.4				
23	28	28.5	FPA28-BFM25-90	FPA28-BFPG21-90	FPA28-BM25-45	FPA28-BPG21-45
23	28					
29	34	34.5	FPA34-BFM32-90	FPA34-BFPG29-90	FPA34-BM32-45	FPA34-BPG29-45
29	34					
36	42	42.5	FPA42-BFM50-90		FPA42-BM50-45	FPA42-BFM50-45
36	42					
48	54	54.5	FPA54-BFM50-90		FPA54-BM50-45	FPA54-BFM50-45
48	54					
56	67	67.0				

## ORDERING NOTES

\* Indicates parts made to order on request

• NPB = Nickel Plated Brass

• Available on request:

- colour grey, other threads
- for brass locknuts and sealing washers see accessories, page 78
- EMC braid clamp version, see page 42

# properties

- 1 part fast fit
- IP rating: of conduit & fitting: IP66  
of cable gland: IP68 (10 bar) +IP69K
- Vibration and shock tested to EN61373 Cat 2
- Tamper resistant
- Can be removed using a screwdriver
- All round teeth give high pull off strength 70kg with FPAH21
- Both 90° and 45° elbows incorporate swept bore to facilitate cable installation and protect cables when installed

- Suitable for fine and coarse pitch conduits
- Temperature range: conduit fitting: -50°C to +135°C  
cable gland: -40°C to +100°C static  
-20°C to +100°C dynamic
- Low Fire Hazard (LFH), see page 94
- Halogen, sulphur and phosphorus free
- Refer to accessories for clamping range page 79



## cable gland

One piece, fast fit, swivel, nickel plated brass external threaded cable gland fitting. Suitable for knockouts or threaded entries.



## cable gland

One piece, fast fit, swivel, 90 degree elbow, nickel plated brass external threaded cable gland fitting. Suitable for knockouts or threaded entries.



## cable gland

One piece, fast fit, swivel, 45 degree elbow, nickel plated brass external threaded cable gland fitting. Suitable for knockouts or threaded entries.



		nominal size (mm)	OD mm	european (NW) sizes
		10	10.0	7
		10		7
		11	11.5	8
FPA13-BM16-CG		13	13.0	10
		13		10
		13		10
FPA16-BM16-CG	FPA16-BPG11-CG*	16	15.8	12
FPA16-BM20-CG	FPA16-BPG16-CG*	16		12
		16		12
		16	16.1	12
		18	18.5	14
		18		14
		20	20.0	
FPA21-BM20-CG	FPA21-BPG16-CG*	21	21.2	17
		21		17
		21		17
		25	25.0	
		25.4	25.4	22
FPA28-BM25-CG	FPA28-BPG21-CG*	28	28.5	23
		28		23
FPA34-BM32-CG	FPA34-BPG29-CG*	34	34.5	29
		34		29
FPA42-BM40-CG		42	42.5	36
		42		36
FPA54-BM50-CG*		54	54.5	48
		54		48
		67	67.0	56

## STANDARDS



BS EN IEC 61386





# FPAX system nylon

**Construction:** Nylon (PA66) moulded fitting incorporating internal elastomeric seal.  
Colour black or grey on request\*.



IP66

IP67

IP68

IP69K

## FITTINGS

IP66 IP67 IP68 IP69K

### FPAX

#### straight external thread

Fast fit, external threaded fitting with additional conduit seal. Suitable for knockouts or threaded entries.



IP66 IP67 IP68 IP69K

### FPAX

#### straight UNEF swivel internal thread

Fast fit fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors with additional conduit seal.



IP66 IP67 IP68 IP69K

### FPAX

#### flange

Fast fit fitting with nylon swivel flange with additional conduit seal.



nominal size (mm)	OD mm	Ext Metric	Ext PG	Ext NPT	Int UNEF	Thread	Flange
7 10	10.0						
7 10							
8 11	11.5						
10 13	13.0	FPAX13-M16	FPAX13-PG9				
10 13							
10 13							
12 16	15.8	FPAX16-M16	FPAX16-PG9	FPAX16-038	FPAX16-BU075	( $\frac{3}{4}$ "")	FPAX16-FL
12 16		FPAX16-M20	FPAX16-PG11	FPAX16-050	FPAX16-BU100	(1")	
12 16			FPAX16-PG13		FPAX16-BU119	( $1\frac{1}{16}$ ")	
12 16	16.1		FPAX16-PG16				
14 18	18.5						
14 18							
20	20.0						
17 21	21.2	FPAX21-M20	FPAX21-PG13	FPAX21-050	FPAX21-BU100	(1")	FPAX21-FL
17 21			FPAX21-PG16		FPAX21-BU119	( $1\frac{1}{16}$ ")	
17 21					FPAX21-BU138	( $1\frac{1}{8}$ ")	
25	25.0						
22 25.4	25.4						
23 28	28.5	FPAX28-M25	FPAX28-PG21	FPAX28-075	FPAX28-BU144	( $1\frac{1}{16}$ ")	FPAX28-FL
23 28		FPAX28-M32	FPAX28-PG29		FPAX28-BU175	( $1\frac{1}{4}$ ")	
29 34	34.5	FPAX34-M32	FPAX34-PG29	FPAX34-100	FPAX34-BU175	( $1\frac{1}{4}$ )	FPAX34-FL
29 34		FPAX34-M40					
36 42	42.5	FPAX42-M40	FPAX42-PG36	FPAX42-125	FPAX42-BU200	(2")	FPAX42-FL
36 42		FPAX42-M50		FPAX42-150	FPAX42-BU225	( $2\frac{1}{4}$ )	
48 54	54.5	FPAX54-M50	FPAX54-PG42	FPAX54-150	FPAX54-BU200	(2")	
48 54		FPAX54-M63	FPAX54-PG48	FPAX54-200	FPAX54-BU225	( $2\frac{1}{4}$ )	
56 67	67.0						

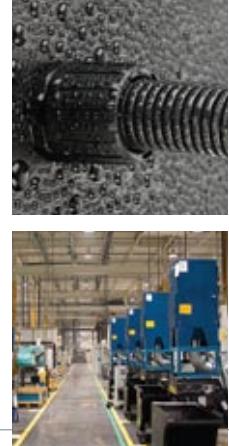
## ORDERING NOTES

- Specify black or grey (B = Black, G = Grey) eg: FPAX16-M16B
- The IP rating onto a UNEF threaded connector may be dependent on the design of the connector
- Available on request:
  - additional sizes
  - alternative threads
  - additional UNEF threads and combinations
  - all nylon UNEF threads

# properties

- Fast fit
- Supplied with additional conduit seal and face seal
- Face seal details:  
Nylon thread - neoprene washer  
UNEF and Flange - O-ring  
Brass external thread - Fibre washer
- IP rating:  
IP66 + IP67 + IP68 (2 bar) + IP69K

- Vibration and shock tested to EN61373 Cat 2
- Tamper resistant
- Can be removed using a screwdriver
- All round teeth give high pull off strength 70kg with FPAH21
- Both 90° and 45° elbows incorporate swept bore to facilitate cable installation and protect cables when installed
- Suitable for fine and coarse pitch conduits
- Temperature range -50°C to +135°C
- Metric nylon threads supplied complete with locknuts
- Swivel UNEF threads allow assembly to military style electrical connectors without twisting of cables and includes sealing 'O' ring
- Low Fire Hazard (LFH), see page 94
- Halogen, sulphur and phosphorus free



IP66 IP67 IP68 IP69K

## FPAX90

### 90° elbow external thread

Fast fit, external threaded 90 degree elbow fitting with additional conduit seal. Suitable for knockouts.

IP66 IP67 IP68 IP69K

## FPAX90

### 90° elbow UNEF swivel internal thread

Fast fit, 90 degree elbow fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors with additional conduit seal.

IP66 IP67 IP68 IP69K

## FPAX90

### flange

Fast fit 90 degree elbow fitting with nylon swivel flange with additional conduit seal.



Ext Metric	Ext PG	Ext NPT	Int UNEF	Thread	Flange	nominal size (mm)	OD mm	european (NW) sizes
						10	10.0	7
						10		7
						11	11.5	8
FPAX13-M16-90	FPAX13-PG9-90					13	13.0	10
						13		10
						13		10
FPAX16-M16-90	FPAX16-PG9-90	FPAX16-050-90	FPAX16-BU075-90	( $\frac{3}{4}$ "")	FPAX16-FL-90	16	15.8	12
FPAX16-M20-90	FPAX16-PG11-90		FPAX16-BU100-90	(1")		16		12
		FPAX16-PG13-90	FPAX16-BU119-90	( $1\frac{1}{16}$ ")		16		12
			FPAX16-BU138-90	( $1\frac{1}{8}$ ")		16	16.1	12
						18	18.5	14
						18		14
						20	20.0	
FPAX21-M20-90	FPAX21-PG13-90	FPAX21-050-90	FPAX21-BU100-90	(1")	FPAX21-FL-90	21	21.2	17
		FPAX21-PG16-90	FPAX21-BU119-90	( $1\frac{1}{16}$ ")		21		17
			FPAX21-BU138-90	( $1\frac{1}{8}$ ")		21		17
						25	25.0	
						25.4	25.4	22
FPAX28-M25-90	FPAX28-PG21-90	FPAX28-075-90	FPAX28-BU144-90	( $1\frac{1}{16}$ ")	FPAX28-FL-90	28	28.5	23
			FPAX28-BU175-90	( $1\frac{1}{4}$ ")		28		23
FPAX34-M32-90	FPAX34-PG29-90	FPAX34-100-90	FPAX34-BU175-90	( $1\frac{1}{4}$ ")	FPAX34-FL-90	34	34.5	29
						34		29
FPAX42-M40-90	FPAX42-PG36-90	FPAX42-125-90	FPAX42-BU200-90	(2")	FPAX42-FL-90	42	42.5	36
FPAX42-M50-90		FPAX42-150-90	FPAX42-BU225-90	( $2\frac{1}{4}$ ")		42		36
FPAX54-M50-90	FPAX54-PG48-90	FPAX54-150-90	FPAX54-BU200-90	(2")		54	54.5	48
FPAX54-M63-90		FPAX54-200-90	FPAX54-BU225-90	( $2\frac{1}{4}$ ")		54		48
						67	67.0	56

## STANDARDS



BS EN IEC 61386





# FPAX system

## nylon & brass threaded



**Construction:** Nylon (PA66) moulded fitting incorporating internal elastomeric seal.

**Construction:** Nylon (PA66) moulded fitting with swivel metal thread. External and internal metallic threads are made from nickel plated brass and incorporate an internal elastomeric seal. Colour black, grey on request\*.

### FITTINGS

IP66 IP67 IP68 IP69K

#### FPAX45

##### 45° elbow external thread

Fast fit, external threaded 45 degree elbow fitting with additional conduit seal. Suitable for knockouts.



IP66 IP67 IP68 IP69K

#### FPAX45

##### 45° elbow UNEF swivel internal thread

Fast fit, 45 degree elbow fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors with additional conduit seal.



IP66 IP67 IP68 IP69K

#### FPAX45

##### flange

Fast fit 45 degree elbow fitting with nylon swivel flange with additional conduit seal.



european (NW) sizes  
nominal size (mm)

OD mm

		Ext Metric	Ext PG	Ext NPT	Int UNEF	Thread	Flange
7	10	10.0					
7	10						
8	11	11.5					
10	13	13.0					
10	13						
10	13						
12	16	15.8	FPAX16-M20-45	FPAX16-PG13-45	FPAX16-050-45	FPAX16-BU100-45 (1")	FPAX16-FL-45
12	16					FPAX16-BU119-45 (1½")	
12	16						
12	16	16.1					
14	18	18.5					
14	18						
20	20	20.0					
17	21	21.2	FPAX21-M20-45	FPAX21-PG13-45	FPAX21-050-45	FPAX21-BU100-45 (1")	FPAX21-FL-45
17	21			FPAX21-PG16-45		FPAX21-BU119-45 (1½")	
17	21					FPAX21-BU138-45 (1¾")	
25	25	25.0					
22	25.4	25.4					
23	28	28.5	FPAX28-M25-45	FPAX28-PG21-45	FPAX28-075-45	FPAX28-BU144-45 (1⅝")	FPAX28-FL-45
23	28					FPAX28-BU175-45 (1¾")	
29	34	34.5	FPAX34-M32-45	FPAX34-PG29-45	FPAX34-100-45	FPAX34-BU175-45 (1¼")	FPAX34-FL-45
29	34						
36	42	42.5	FPAX42-M50-45	FPAX42-PG36-45	FPAX42-150-45	FPAX42-BU200-45 (2")	FPAX42-FL-45
36	42					FPAX42-BU225-45 (2¼")	
48	54	54.5	FPAX54-M50-45		FPAX54-150-45	FPAX54-BU200-45 (2")	
48	54					FPAX54-BU225-45 (2¼")	
56	67	67.0					

### ORDERING NOTES

- Specify black or grey (B=Black, G=Grey)  
eg: FPAX16-M20-45B
- NPB = Nickel Plated Brass

- Available on request:**
  - colour grey, other threads
  - for brass locknuts and sealing washers see accessories, page 78
  - EMC braid clamp version

# properties

- Fast fit
- Supplied with additional conduit seal and face seal
- Face seal details:
  - Nylon thread - neoprene washer
  - UNEF and Flange - O-ring
  - Brass threads - Fibre washer
- IP rating: IP66 + IP67 + IP68 (2 bar) + IP69K

- Vibration and shock tested to EN61373 Cat 2
- Tamper resistant
- Can be removed using a screwdriver
- All round teeth give high pull off strength 70kg with FPAH21
- Both 90° and 45° elbows incorporate swept bore to facilitate cable installation and protect cables when installed
- Suitable for fine and coarse pitch conduits
- Temperature range -50°C to +135°C
- Metric nylon threads supplied complete with locknuts
- Swivel UNEF threads allow assembly to military style electrical connectors without twisting of cables and includes sealing 'O' ring
- Low Fire Hazard (LFH), see page 94
- Halogen, sulphur and phosphorus free



## FPAX

### straight swivel brass external thread

Fast fit, swivel, nickel plated brass external threaded fitting with additional conduit seal. Suitable for knockouts or threaded entries.



## FPAX

### straight swivel brass internal thread

Fast fit, swivel, nickel plated brass internal threaded fitting with additional conduit seal.



## FPAX90

### 90° elbow swivel brass external thread

Fast fit, swivel, 90 degree elbow, nickel plated brass external threaded fitting with additional conduit seal. Suitable for knockouts or threaded entries.



NPB Ext Metric

NPB Ext PG

NPB Int Metric

NPB Int PG

NPB Ext Metric

NPB Ext PG

nominal size (mm)	OD mm	european (NW) sizes
10	10.0	7
10		7
11	11.5	8
13	13.0	10
13		10
13		10
16	15.8	12
16		12
16	16.1	12
18	18.5	14
18		14
20	20.0	
21	21.2	17
21		17
21		17
25	25.0	
25.4	25.4	22
28	28.5	23
28		23
34	34.5	29
34		29
42	42.5	36
42		36
54	54.5	48
54		48
67	67.0	56

FPAX13-BM16

FPAX13-BPG9

NPB Int Metric

NPB Int PG

FPAX13-BM16-90

NPB Ext PG

FPAX16-BM16

FPAX16-BPG9

NPB Int Metric

NPB Int PG

FPAX16-BM16-90

FPAX13-BPG9-90

FPAX16-BM20

FPAX16-BPG11

NPB Int Metric

NPB Int PG

FPAX16-BM20-90

FPAX16-BPG11-90

FPAX21-BM20

FPAX21-BPG13

NPB Int Metric

NPB Int PG

FPAX21-BM20-90

FPAX21-BPG13-90

FPAX21-BPG16

FPAX28-BM25

FPAX28-BPG21

NPB Int Metric

NPB Int PG

FPAX28-BM25-90

FPAX28-BPG21-90

FPAX34-BM32

FPAX34-BPG29

NPB Int Metric

NPB Int PG

FPAX34-BM32-90

FPAX34-BPG29-90

FPAX42-BM40

FPAX42-BFM40

FPAX42-BM50-90

FPAX42-BM50

FPAX54-BFM50

FPAX54-BM50-90

FPAX54-BM63

## STANDARDS



BS EN IEC 61386





# FPAX system brass threaded

**Construction:** Nylon (PA66) moulded fitting with swivel metal thread. External and internal metallic threads are made from nickel plated brass and incorporate an internal elastomeric seal. Colour black, grey on request\*.



IP66

IP67

IP68

IP69K

## FITTINGS

IP66 IP67 IP68 IP69K

### FPAX90

#### 90° elbow swivel brass internal thread

Fast fit, swivel, 90 degree elbow, nickel plated brass internal threaded fitting with additional conduit seal.



IP66 IP67 IP68 IP69K

### FPAX45

#### 45° elbow swivel brass external thread

Fast fit, swivel, 45 degree elbow, nickel plated brass external threaded fitting with additional conduit seal. Suitable for knockouts or threaded entries.



IP66 IP67 IP68 IP69K

### FPAX45

#### 45° elbow swivel brass internal thread

Fast fit, swivel, 45 degree elbow, nickel plated brass internal threaded fitting with additional conduit seal.



European (NW) sizes	nominal size (mm)	OD mm	NPB Int Metric	NPB Int PG	NPB Ext Metric	NPB Ext PG	NPB Int Metric	NPB Int PG
7 10	10.0							
7 10								
8 11	11.5							
10 13	13.0		FPAX13-BFM16-90	FPAX13-BFPG9-90				
10 13								
10 13								
12 16	15.8		FPAX16-BFM16-90	FPAX16-BFPG11-90	FPAX16-BM16-45	FPAX16-BPG13-45	FPAX16-BFM20-45	FPAX16-BFPG16-45
12 16			FPAX16-BFM20-90	FPAX16-BFPG16-90	FPAX16-BM20-45	FPAX16-BPG16-45		
12 16								
12 16	16.1							
14 18	18.5							
14 18								
20	20.0							
17 21	21.2		FPAX21-BFM20-90	FPAX21-BFPG16-90	FPAX21-BM20-45	FPAX21-BPG13-45	FPAX21-BFM20-45	FPAX21-BFPG16-45
17 21						FPAX21-BPG16-45		
17 21								
25	25.0							
22 25.4	25.4							
23 28	28.5		FPAX28-BFM25-90	FPAX28-BFPG21-90	FPAX28-BM25-45	FPAX28-BPG21-45	FPAX28-BFM25-45	FPAX28-BFPG21-45
23 28								
29 34	34.5		FPAX34-BFM32-90	FPAX34-BFPG29-90	FPAX34-BM32-45	FPAX34-BPG29-45	FPAX34-BFM32-45	FPAX34-BFPG29-45
29 34								
36 42	42.5		FPAX42-BFM50-90		FPAX42-BM50-45		FPAX42-BFM50-45	
36 42								
48 54	54.5		FPAX54-BFM50-90		FPAX54-BM50-45		FPAX54-BFM50-45	
48 54								
56 67	67.0							

## ORDERING NOTES

- NPB = Nickel Plated Brass

\* Indicates parts made to order on request

- Available on request:

- colour grey, other threads
- for brass locknuts and sealing washers see accessories, page 78
- EMC braid clamp version, see page 42

# properties

- Fast fit
- Supplied with additional conduit seal & face seal
- Face seal details:
  - Nylon thread - neoprene washer
  - UNEF and Flange - O-ring
  - Brass threads - Fibre washer
- IP rating: for conduit & fitting IP66 + IP67 + IP68 (2 bar) + IP69K  
for cable gland: IP68 (10 bar)+IP69K

- Vibration and shock tested to EN61373 Cat 2
- Tamper resistant
- Both 90° and 45° elbows incorporate swept bore to facilitate cable installation and protect cables when installed
- Can be removed using a screwdriver
- All round teeth give high pull off strength 70kg with FPAH21
- Both 90° and 45° elbows incorporate swept bore to facilitate cable installation and protect cables when installed

- Suitable for fine and coarse pitch conduits
- Temperature range:  
conduit fitting: -50°C to +135°C  
cable gland: -40°C to +100°C static  
-20°C to +100°C dynamic
- Low Fire Hazard (LFH), see page 94
- Halogen, sulphur and phosphorus free
- Refer to accessories for clamping range page 79



**FPAX**

NEW

## cable gland

Fast fit, swivel, nickel plated brass external threaded cable gland fitting with additional conduit seal. Suitable for knockouts or threaded entries.



NPB Metric

NPB PG

NPB Metric

NPB Metric

FPAX13-BM16-CG

FPAX13-BM16-CG-90

FPAX16-BM16-CG  
FPAX16-BM20-CG

FPAX16-BPG11-CG\*  
FPAX16-BPG16-CG\*

FPAX16-BM16-CG-90  
FPAX16-BM20-CG-90

FPAX16-BM20-CG-45

nominal size (mm)	OD mm	european (NW) sizes
10	10.0	7
10	10	7
11	11.5	8
13	13.0	10
13	13	10
13	13	10
16	15.8	12
16	16	12
16	16.1	12
18	18.5	14
18	18	14
20	20.0	
21	21.2	17
21	21	17
21	21	17
25	25.0	
25.4	25.4	22
28	28.5	23
28	28	23
34	34.5	29
34	34	29
42	42.5	36
42	42	36
54	54.5	48
54	54	48
67	67.0	56



**FPAX90**

NEW

## cable gland

Fast fit, swivel, 90 degree elbow, nickel plated brass external threaded cable gland fitting with additional conduit seal. Suitable for knockouts or threaded entries.



**FPAX45**

NEW

## cable gland

Fast fit, swivel, 45 degree elbow, nickel plated brass external threaded cable gland fitting with additional conduit seal. Suitable for knockouts or threaded entries.

## STANDARDS

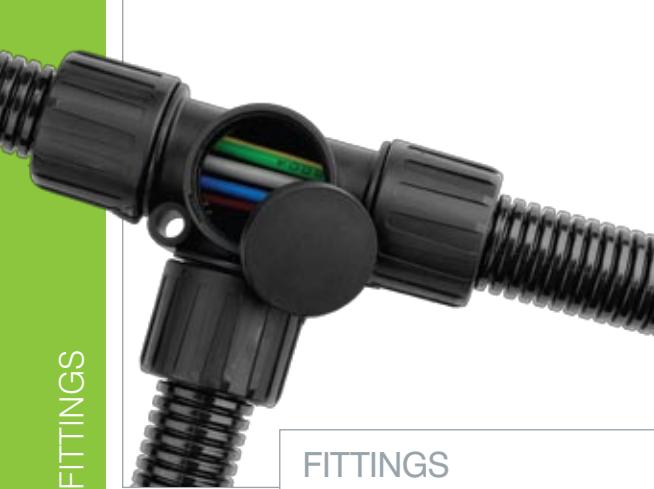


BS EN IEC 61386



## TECHNICAL DRAWING





# FPA & FPAX T Pieces and Dividers

NEW

**Construction:** Nylon (PA66) moulded fitting.

FPA colour black or grey as standard. FPAX incorporate internal elastomeric seal(s). Colour black or grey on request.



IP66

IP67

IP68

IP69K

## FITTINGS

IP66

### FPA

#### T piece with inspection lid

Fast fit T piece with inspection lid.

IP66

### FPA

NEW

#### Divider

Fast fit reducing divider

IP66

### Reducer/ Stop Plug

Fitting to reduce or blank off any outlets.



12 16 13 FPA16T

FPA20T

17 21 16 FPA21T

23 28 21 FPA28T

29 34 28 FPA34T

36 FPA42T



FPA16-13-13

FPA21-16-16

FPA28-21-21

FPA34-28-28

FPA13-R16  
SP-R16FPA16-R21  
FPA13-R21  
SP-R21FPA25-R28  
FPA21-R28  
FPA20-R28  
FPA16-R28  
FPA13-R28  
SP-R28FPA28-R34  
FPA21-R34  
FPA16-R34  
SP-R34  
FPA34-R42  
FPA28-R42  
FPA21-R42

## ORDERING NOTES

\* Indicates parts made to order on request and may be subject to MOQ and lead time

- Available on request:
  - other colours

### How to read the fittings code

FPAX21-R28

Conduit Size  
T-piece or Reducer Size

# properties

- Fast fit
- IP rating: FPA IP66  
FPAX IP66 + IP67 + IP68 (2 bar)
- Maintains all the benefits of FPA and FPAX fittings
- Vibration and shock tested to EN61373 Cat 2
- Tamper resistant
- All round teeth give high pull off strength
- Low Fire Hazard (LFH), see page 94
- Halogen, sulphur & phosphorous free
- Inspection lid facilitates pull through of cables easing installation on the T-piece
- Rounded internal corners protect cable insulation during installation and use
- Incorporates mounting lugs to aid secure fixing



IP66 IP67 IP68

## FPAX

### T piece with inspection lid

Fast fit T piece with inspection lid and additional seals for enhanced IP rating.

european (NW) sizes  
Conduit In  
Conduit Out x 2 for divider

12 16 13 FPAX16T

17 21 16 FPAX21T

23 28 21 FPAX28T

29 34 28 FPAX34T

36 42 FPAX42T

IP66 IP67 IP68 IP69K

## FPAX

NEW

### Divider

Fast fit reducing divider with additional seals for enhanced IP ratings



FPAX16-13-13

FPAX21-16-16

FPAX28-21-21

FPAX34-28-28

IP66 IP67 IP68

## Reducer/ Stop Plug

Fitting to reduce or blank off outlets with additional seal for enhanced IP rating.



SP



FPAX13-R16

FPAX16-R21  
SP-R21

FPAX21-R28  
FPAX16-R28  
SP-R28

FPAX28-R34  
FPAX21-R34  
FPAX16-R34

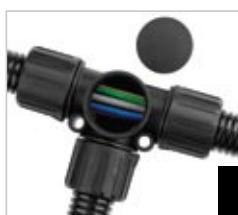
FPAX34-R42  
FPAX28-R42  
FPAX21-R42



## STANDARDS



BS EN IEC 61386



STANDARD  
LOW FIRE  
HAZARD \*

IP66

# Flexilok® system

**Construction:** Nylon (PA66) or polypropylene moulded fitting.

- One piece fast fit
- Slim design
- IP rating: IP66
- Anti-vibration and tamper resistant
- Pull off strength with:
  - (FLK21 - FPAS21 25kg)
  - (FLK21 - FPAL21 20kg)
  - (FLK20-PP - FPP20 13kg)
- Can be removed using a screwdriver
- Suitable for fine and coarse pitch conduits
- Temperature range -50 °C to +135 °C
- Metric threads supplied complete with locknuts
- Low Fire Hazard (L FH), see page 94
- Halogen, sulphur and phosphorus free
- Available in black, grey (RAL 7031) and white, see page 69

## FITTINGS

IP66

### FLK

#### straight external thread

One piece, slim, fast fit, external threaded fitting suitable for knockouts or threaded entries.



IP66

### FLK

#### Push in

Simple, one piece, push in fitting suitable for knockouts with no need for locknuts.



IP66

### FLK90

#### 90° elbow external thread

One piece, slim, fast fit, external threaded 90 degree elbow fitting suitable for knockouts.



IP66

### FLK-FLK

#### coupler

One piece, slim, fast fit coupler for joining 2 conduits together.



euopean (NW) sizes	nominal size (mm)	OD mm	Ext Metric	Ext Metric (PP)	Ext PG		Ext Metric	Ext PG	Coupler
7	10	10.0	FLK10-M12*						
7	10								
8	11	11.5							
10	13	13.0	FLK13-M16		FLK13-PG9				
10	13								
10	13								
12	16	15.8	FLK16-M16	FLK16-M16-PP	FLK16-PG11	FLK16-PL20	FLK16-M16-90	FLK16-PG11-90	FLK16-FLK16
12	16		FLK16-M20		FLK16-PG13		FLK16-M20-90		
12	16								
12	16	16.1							
14	18	18.5							
14	18								
20	20	20.0	FLK20-M20	FLK20-M20-PP		FLK20-PL20	FLK20-M20-90		FLK20-FLK20
17	21	21.2	FLK21-M20		FLK21-PG16	FLK21-PL20	FLK21-M20-90	FLK21-PG16-90	FLK21-FLK21
17	21								
17	21								
25	25	25.0	FLK25-M25	FLK25-M25-PP		FLK25-PL25	FLK25-M25-90		FLK25-FLK25
22	25.4	25.4							
23	28	28.5	FLK28-M25		FLK28-PG21	FLK28-PL25	FLK28-M25-90	FLK28-PG21-90	FLK28-FLK28
23	28								
29	34	34.5	FLK34-M32	FLK34-M32-PP	FLK34-PG29	FLK34-PL32	FLK34-M32-90	FLK34-PG29-90	FLK34-FLK34
29	34								
36	42	42.5	FLK42-M40*						
36	42								
48	54	54.5	FLK54-M50*						
48	54								
56	67	67.0							

## ORDERING NOTES

- Specify black or grey (B=Black, G=Grey) eg. FLK20-M20B
- For white version see page 69

\* Coming soon

## ALSO AVAILABLE

- Push in fitting removal tool - see accessories page 75
- Brass threaded versions

## SPECIALS



# White Products

NEW

**Construction:** Polypropylene or upvc conduit system with nylon straight, 90° elbow, coupler and conduit clips options.



## CONDUIT

## FITTINGS

### FPP

For details see page 52



### FLK

#### straight external thread

One piece, slim, fast fit, external threaded fitting suitable for knockouts or threaded entries.

### FLK90

#### 90° elbow external thread

One piece, slim, fast fit, external threaded 90 degree elbow fitting suitable for knockouts.

### FLK-FLK

#### coupler

One piece, slim, fast fit coupler for joining 2 conduits together.

### FCL

#### nylon conduit clip with integral lid

Nylon PA66 conduit clip with integral lid for increased security. Incorporates internal ribs to prevent conduit from pulling through.

### FCL-P

#### nylon conduit clip with integral lid

Nylon PA66 conduit clip with integral lid for increased security and plain ID for rigid conduit.

### FPL

For details see page 76



nominal size (mm)

00 mm

**FPP**  
50m coil

**FPL**  
50m & 100m coil

20

25

34

**FPL**  
50m coil

**FPL**  
100m coil

**FPL**  
50m & 100m coil

Ext Metric

Ext Metric

**FPP20W-50M**   **FPL20W-100M**

**FPP25W-50M**   **FPL25W-50M**

**FPP34W-50M**

**FLK20-M20W**

**FLK25-M25W**

**FLK34-M32W**

**FLK20-M20-90W**

**FLK25-M25-90W**

**FLK25-FLK25W**

**FCL20W**

**FCL25W**

**FCL20W-P**

**FCL25W-P**

### PVC - Contractor pack white

**FPL-CP20W**   M20 thread

**FPL-CP25W**   M25 thread

NEW



- 10m of FPL white conduit
- 10 x Flexilok® fittings
- 10 x Locknuts

### Cable Glands white

IP68



Thread No.	White Part No.	Thread Length (mm)	Cable Dia (min) (mm)	Cable Dia (max) (mm)	Spanner Size (mm)	Pack Quantity
M16	CGM16W	11	5	10	22	100
M20	CGM20SW	11	6	12	24	100
M20	CGM20W	11	10	14	27	100
M25	CGM25W	11	13	18	33	50

supplied with locknut

For other colours see page 79

## STANDARDS





IP40

IP67

# MP, MP90 & T system

**Construction:** Nylon compression fittings.  
Colour - black, grey on request\*.

**MP** fitting with nylon retaining clip provides a pull off strength of 20kg with FPAS21 and IP40.

**MPS** fitting with a neoprene sealing ring provides a pull off strength of 15kg with FPAS21 and IP67.

## FITTINGS

IP40

IP67

IP40

IP67

IP40

IP67

**MP****MPS****MP90****MPS90****T****TS****straight external thread**

straight nylon compression fitting external thread including locknut.

**straight external thread**

Straight nylon compression fitting, with seal, external thread including locknut.

**90° elbow external thread**

90° elbow nylon compression fitting external thread including locknut.

**90° elbow external thread**

90° elbow nylon compression fitting, with seal, external thread including locknut.

**T Piece fitting**

T piece nylon compression fitting.

**T Piece fitting with seals**

T piece nylon compression fitting, with seals.

IP40  
T shown
 european (NW) sizes  
nominal size (mm)

00 mm

Ext Metric

Ext Metric

Ext Metric

Ext Metric

T Piece

T Piece

7	10	10.0					
7	10						
8	11	11.5					
10	13	13.0	MP-12-M16	MPS-12-M16		T12X12X12      TS12X12X12	
10	13						
10	13						
12	16	15.8	MP-16-M16	MPS-16-M16	MP90-16-M16	MPS90-16-M16	T16X16X16      TS16X16X16
12	16		MP-16-M20	MPS-16-M20	MP90-16-M20	MPS90-16-M20	
12	16						
12	16	16.1	MP-16-M16	MPS-16-M16	MP90-16-M16	MPS90-16-M16	T16X16X16      TS16X16X16
14	18	18.5					
14	18						
20	20	20.0	MP-20-M20	MPS-20-M20	MP90-20-M20	MPS90-20-M20	T20X20X20      TS20X20X20
17	21	21.2	MP-20-M20	MPS-20-M20	MP90-20-M20	MPS90-20-M20	T20X20X20      TS20X20X20
17	21						
17	21						
25	25	25.0	MP-25-M25	MPS-25-M25	MP90-25-M25	MPS90-25-M25	T25X25X25      TS25X25X25
22	25.4	25.4	MP-25-M25	MPS-25-M25	MP90-25-M25	MPS90-25-M25	T25X25X25      TS25X25X25
23	28	28.5	MP-28-M25	MPS-28-M25	MP90-28-M25	MPS90-28-M25	
23	28						
29	34	34.5	MP-32-M32	MPS-32-M32	MP90-32-M32	MPS90-32-M32	
29	34						
36	42	42.5	MP-40-M40	MPS-40-M40	MP90-40-M40	MPS90-40-M40	
36	42						
48	54	54.5	MP-50-M50	MPS-50-M50	MP90-50-M50	MPS90-50-M50	
48	54						
56	67	67.0					

## ORDERING NOTES

- Metric threads supplied complete with locknuts
- Available on request:
  - reduced outlet T pieces
  - other colours
  - PG threads

# MSL & MPC system

**MSL** moulded in nylon or PP hinged fitting black and grey RAL7031.

Pull off strength 10kg with FPP21.

**MPC** nylon compression fitting black. Pull off strength 15kg with FPY20.



IP40      IP65

IP40

IP65

## MSL

### straight hinged fitting external thread

Nylon and PP hinged, snap on fittings including locknuts.



Ext Metric (Nylon)

## MPC

### straight nylon external thread

Nylon compression fitting, external thread including locknut.



Ext Metric (PP)

## EC

### end cap

Nylon PA66 end cap to snap over end of conduit and provide a smooth entry bush.



Ext Metric

## FCL

### nylon conduit clip with integral lid

Nylon PA66 conduit clip with integral lid for increased security. Incorporates internal ribs to prevent conduit from pulling through.



End Cap

Conduit Clip

	nominal size (mm)	OD mm	european (NW) sizes
	10	10.0	7
	10		
	11	11.5	8
MPC-12-M16	13	13.0	10
	13		
	13		10
	16	15.8	12
	16		
	16		12
	16		
MPC-16-M16	16	16.1	12
	18	18.5	14
	18		
	18		14
	20	20.0	
MSL-21-M20	21	21.2	17
MSL-21-M20-PP	21		
	21		17
	21		
	25	25.0	
MSL-26-M25	25.4	25.4	22
MSL-26-M25-PP	28	28.5	23
	28		
MPC-25-M25	34	34.5	29
	34		
	42	42.5	36
EC28B	42		
EC21B	54	54.5	48
	54		
	67	67.0	56

## STANDARDS



BS EN IEC 61386





**FPCB system**  
spiral reinforced pvc  
**FPCG, FPCGN &**  
**FPCBU system**   
spiral reinforced pvc with  
special properties

IP65

## CONDUIT

**FPCB**

**Construction:** Smooth bore, helically formed pvc, flexible conduit with spiral upvc reinforcement and flexible pvc jacket. Colour black.

**Typical Applications:** Routing of cables within machines.

**FPCGN**

**Construction:** Smooth bore, helically formed pvc, flexible conduit with spiral upvc reinforcement and flexible pvc jacket. Colour green

**Typical Applications:** As FPCB but where oil resistance is required.

**FPCG**

**Construction:** As FPCB except colour grey.

**Typical Applications:** As FPCB

**FPCBU**

**Construction:** As FPCB except colour blue.

**Typical Applications:** As FPCB but where high temperature is required.

## FITTINGS

**MPC**

**straight nylon compression fitting external thread**

2 part compression fitting with internal spigot and all round external teeth to grip conduit. Available in black or grey (RAL 7001).



nominal size (mm)	FPC	part number	Black	Grey (RAL 7001)	Green (RAL 6001)	Blue (RAL 5012)	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	metric thread part number	PG thread part number
12	FPC12B	FPC12G*	FPC12GN*	FPC12BU*	30	14.5	10.0	25	MPC-12-M16	MPC-12-PG9		
16	FPC16B	FPC16G*	FPC16GN*	FPC16BU*	30	16.5	12.0	25	MPC-16-M16	MPC-16-PG11		
16									MPC-16-M20	MPC-16-PG13		
20	FPC20B	FPC20G*	FPC20GN*	FPC20BU*	30	21.0	16.0	35	MPC-20-M20	MPC-20-PG16		
25	FPC25B	FPC25G*	FPC25GN*	FPC25BU*	30	27.5	22.0	45	MPC-25-M25	MPC-25-PG21		
30	FPC30B*	FPC30G*			30	30.5	25.0	55	MPC-30-M30*	MPC-30-PG29*		
32	FPC32B	FPC32G*	FPC32GN*	FPC32BU*	10,30	33.5	28.0	60	MPC-32-M32	MPC-32-PG29		
40	FPC40B	FPC40G*	FPC40GN*	FPC40BU*	10,30	41.0	35.0	80	MPC-40-M40	MPC-40-PG36		
50	FPC50B	FPC50G*	FPC50GN*	FPC50BU*	10,30	46.4	40.0	105	MPC-50-M50	MPC-50-PG42		
63	FPC63B	FPC63G*	FPC63GN*	FPC63BU*	10,30	57.0	50.0	120	MPC-63-M63	MPC-63-PG48		



## ORDERING NOTES

- Add reel length eg: FPC20B-30M for 30M
- \* Indicates parts made to order on request and may be subject to MOQ and lead time
- For UL recognised black conduit order FPCURB\*

- **Available on request:**
  - additional sizes
  - alternative threads
  - other colours

## ALTERNATIVES



# properties

- Highly flexible
- Accepts torsional movement
- Vibration and shock tested to EN61373 Cat 2
- IP rating: IP65
- Temperature range
  - 5°C to +70°C (FPCB - black)
  - 20°C to +70°C (FPCG - grey)
  - 20°C to +70°C (FPCGN - green)
  - 20°C to +90°C (FPCBU - blue)
- FPCB (black) is UV resistant
- FPCGN (green) is oil resistant
- Self extinguishing
- Metric threads supplied complete with locknuts
- UL recognised to UL1696 for use in US and Canada



IP65

## MPC90

### 90° elbow nylon compression fitting external thread

2 part compression, 90 degree elbow fitting with internal spigot and all round external teeth to grip conduit. Available in black or grey (RAL 7001).

IP65

## MPC45

### 45° elbow nylon compression fitting external thread

2 part compression, 45 degree elbow fitting with internal spigot and all round external teeth to grip conduit. Available in black or grey (RAL 7001).



metric thread  
part number



metric thread  
part number

MPC90-16-M16	MPC90-16-PG11	MPC45-16-M20
MPC90-16-M20	MPC90-16-PG13	
MPC90-20-M20	MPC90-20-PG16	MPC45-20-M20
MPC90-25-M25	MPC90-25-PG21	MPC45-25-M25
		MPC45-32-M32
MPC90-32-M32	MPC90-32-PG29	
MPC90-40-M40	MPC90-40-PG36	

## STANDARDS

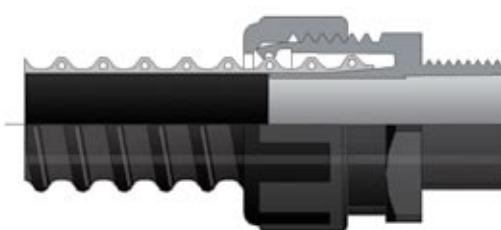


BS EN IEC 61386



\* refer to conduit properties for applicable standards

## TECHNICAL DRAWING





# LPC system

smooth spiral reinforced pvc

## LPCO, LPCGN & LPCBU system

smooth spiral reinforced pvc  
with special properties

IP67

IP68

IP69K

## CONDUIT

**LPC**

**Construction:** Smooth bore, smooth cover, helically formed pvc, flexible conduit with spiral upvc reinforcement and flexible pvc jacket. Colour black, or grey.

**Typical Applications:** Food processing machines and wash-down installations.

**LPCGN**

**Construction:** As LPC except colour green.

**Typical Applications:** As LPC but where oil resistance is required.

## FITTINGS

IP66

IP67

IP66

IP67

**MPC**

**straight nylon compression fitting external thread including locknut**

2 part compression fitting with internal spigot and all round external teeth to grip conduit. Available in black or grey (RAL 7001).

**MPC90**

**90° elbow nylon compression fitting external thread**

2 part compression, 90 degree elbow fitting with internal spigot and all round external teeth to grip conduit. Available in black or grey (RAL 7001).

**LPCO**

**Construction:** As LPC except colour orange.

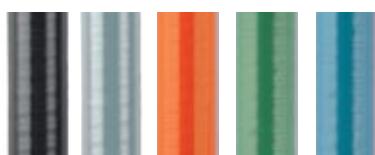
**Typical Applications:** As LPC but where high flexibility is required.

**LPCBU**

**Construction:** As LPC except colour blue.

**Typical Applications:** As LPC but where high temperature is required.

LPC	nominal size (mm)	part number	Grey (RAL 7001)	Orange (RAL 2008)	Green (RAL 6001)	Blue (RAL 5012)	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)
12	LPC12B	LPC12G*	LPC12O*	LPC12GN*	LPC12BU*	30	14.2	10.0	50	
16	LPC16B	LPC16G	LPC16O	LPC16GN*	LPC16BU*	30	17.8	12.6	50	
16										
20	LPC20B	LPC20G	LPC20O	LPC20GN*	LPC20BU*	10,30	21.1	16.0	70	
25	LPC25B	LPC25G	LPC25O	LPC25GN*	LPC25BU*	10,30	26.4	21.0	90	
32	LPC32B	LPC32G	LPC32O	LPC32GN*	LPC32BU*	10,30	33.1	26.5	140	
40	LPC40B	LPC40G*	LPC40O*	LPC40GN*	LPC40BU*	10,30	41.8	35.4	190	
50	LPC50B	LPC50G*	LPC50O*	LPC50GN*	LPC50BU*	10,30	47.9	40.0	240	
63	LPC63B	LPC63G*	LPC63O*	LPC63GN*	LPC63BU*	10,30	59.7	51.3	270	



metric thread part number	PG thread part number	NPT thread part number	metric thread part number	PG thread part number
MPC-16-M16	MPC-16-PG11	MPC-16-050	MPC90-16-M16	MPC90-16-PG11
MPC-16-M20	MPC-16-PG13		MPC90-16-M20	MPC90-16-PG13
MPC-20-M20	MPC-20-PG16	MPC-20-050	MPC90-20-M20	MPC90-20-PG16
MPC-25-M25	MPC-25-PG21	MPC-25-075	MPC90-25-M25	MPC90-25-PG21
MPC-32-M32	MPC-32-PG29	MPC-32-100	MPC90-32-M32	MPC90-32-PG29
MPC-40-M40	MPC-40-PG36	MPC-40-125	MPC90-40-M40	MPC90-40-PG36
MPC-50-M50	MPC-50-PG42			
MPC-63-M63	MPC-63-PG48			

## ORDERING NOTES

- \* Indicates parts made to order on request and may be subject to MOQ and lead time

- Available on request:

- additional sizes
- alternative threads
- alternative materials (eg. PU)

- other colours
- conduit couplers
- 45 degree brass elbow
- combined conduit fitting with cable gland, see page 43

## ALTERNATIVES



# properties

- Smooth, wipe clean surface
- Accepts some torsional movement
- IP rating: IP67 with MPC fittings  
IP66, IP67, IP68 (2 bar) + IP69K with metal C-type compression fittings
- Temperature range -5°C to +70°C
- LPCBU (blue) temperature range -20°C to +90°C
- LPCO (orange) is highly flexible
- LPCGN (green) is oil resistant
- LPCB (black) is UV resistant
- Self extinguishing
- Metric nylon fittings supplied complete with locknut
- Vibration and shock tested to EN 61373 Cat 2



IP66	IP67	IP66	IP67	IP68	IP69K												
------	------	------	------	------	-------	------	------	------	-------	------	------	------	-------	------	------	------	-------

## MPC45

### 45° elbow nylon fitting external thread

2 part compression, 45 degree elbow fitting with internal spigot and all round external teeth to grip conduit. Available in black or grey (RAL 7001).

## C

NEW

## C-S

NEW

## C90

NEW

## CSS

## C90-SS

NEW

### external metric thread nickel plated brass

Multipart compression fitting including nylon seal. Can be used for knockout or threaded entries as fitting rotates until tightened.

### swivel external thread NPB

Compression fitting for knockout or threaded entries.  
Multipart compression fitting including elastomeric seal. The external thread swivels about the main body even after tightening.

### external thread NPB

Multipart compression fitting including nylon seal. Can be used for knockout or threaded entries as fitting rotates until tightened.

### external thread stainless steel

Multipart compression fitting including nylon seal. Can be used for knockout or threaded entries as fitting rotates until tightened.

### external thread stainless steel

Multipart compression fitting including nylon seal. Can be used for knockout or threaded entries as fitting rotates until tightened.



metric thread part number	metric thread part number	PG thread part number	metric thread part number	nominal size (mm)			
	LPC12-M16-C			LPC12-M16-C90			12
MPC45-16-M20	LPC16-M16-C	LPC16-PG11-C	LPC16-M16-S	LPC16-M16-C90	LPC16-M16-CSS	LPC16-M20-CSS90	16
	LPC16-M20-C	LPC16-PG13-C	LPC16-M20-S	LPC16-M20-C90	LPC16-M20-CSS	LPC16-M20-CSS	16
MPC45-20-M20	LPC20-M20-C	LPC20-PG16-C	LPC20-M20-S	LPC20-M20-C90	LPC20-M20-CSS	LPC20-M20-CSS90	20
MPC45-25-M25	LPC25-M25-C	LPC25-PG21-C	LPC25-M25-S	LPC25-M25-C90	LPC25-M25-CSS	LPC25-M25-CSS90	25
MPC45-32-M32	LPC32-M32-C	LPC32-PG29-C	LPC32-M32-S	LPC32-M32-C90	LPC32-M32-CSS	LPC32-M32-CSS90	32
	LPC40-M40-C			LPC40-M40-C90			40
	LPC50-M50-C			LPC50-M50-C90			50
	LPC63-M63-C			LPC63-M63-C90			63

## STANDARDS

## TECHNICAL DRAWING





# FPL system

## upvc corrugated pliable conduit

IP40

IP66

IP67

## CONDUIT

**FPL**

**Construction:** Standard weight, upvc, corrugated pliable conduit. Colour black, grey (RAL 7045) or white. (see page 63)

**Typical Applications:** Static connections in buildings.

- High compression strength
- Bends to a small radius
- IP rating:  
IP40 with MP and T fittings  
IP66 with FLK fittings  
IP67 with MPS fittings
- Temperature range  
-5°C to +70°C
- Self extinguishing
- UV resistant (black)
- Tensile strength:  
FLK 25kg  
MP 20kg  
MPS 15kg



## FITTINGS

**FLK**

IP66

**straight external thread**

One piece, slim, fast fit, nylon external threaded fitting suitable for knockouts or threaded entries.

**FLK90**

IP66

**90° elbow external thread**

One piece, slim, fast fit, nylon external threaded 90 degree elbow fitting suitable for knockouts.

IP40

IP67

**MP****straight external thread**

Straight nylon compression fitting external thread including locknut.

**MPS****straight external thread**

Straight nylon compression fitting with seal external thread including locknut.



MP shown

	nominal size (mm)	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)
<b>FPL</b>	16	FPL16	100	16.0	12.0	25
	16					
	20	FPL20	100	20.0	15.0	30
	25	FPL25	50	25.0	19.5	40
	34	FPL32	25	34.5	27.9	50

	metric thread part number
FLK16-M16	FLK16-M16-90
FLK16-M20	FLK16-M20-90
FLK20-M20	FLK20-M20-90
FLK25-M25	FLK25-M25-90
FLK34-M32	FLK34-M32-90

metric thread part number

metric thread part number

metric thread part number

	metric thread part number
MP-16-M16	MPS-16-M16
MP-16-M20	MPS-16-M20
MP-20-M20	MPS-20-M20
MP-25-M25	MPS-25-M25
MP-32-M32	MPS-32-M32

\* Push in fittings available on Page 68

## ORDERING NOTES

- Specify black or grey (B = Black, G = Grey)
- FPL can be used with FPA fittings
- **Available on request:**
  - longer lengths and bulk packaging
  - cut lengths and assemblies, additional sizes
  - alternative threads, other colours

## DON'T FORGET



See page 52

## STANDARDS

BS EN IEC 61386



# FPY system

## large diameter nylon

IP40 IP65



### CONDUIT

#### FPY

**Construction:**  
Nylon (PA6) corrugated flexible conduit.  
Colour black or grey.

**Typical Applications:** Machines and  
large control cabinets.

- Highly flexible
- High impact strength and recovers if crushed
- IP rating: IP40 or IP65
- Temperature range -40°C to +120°C
- Highly resistant to solvents and oils
- Self extinguishing
- Halogen, sulphur and phosphorus free
- UV resistant (black)

### FITTINGS

#### MP

**straight flanged  
nylon clamp  
fitting**

Flanged body with 2 clamps.

IP40

#### MPS

**straight flanged  
nylon clamp  
fitting with seals**

Flanged body with 2 clamps and seals.

IP65

#### MP90

**90° flanged nylon  
clamp fitting**

Flanged 90° body with 2 clamps.

IP40

#### MPS90

**90° flanged nylon  
clamp fitting with  
seals**

Flanged 90° body with 2 clamps and seals.

IP65



european (NW) sizes		nominal size (mm)	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)
70	80						
FPY80	10	80.0	67.0	160			
FPY106	10	106.0	91.5	210			

termination	part number						
FL	MP-80-FL	FL	MPS-80-FL	FL	MP90-80-FL	FL	MPS90-80-FL
FL	MP-106-FL	FL	MPS-106-FL	FL	MP90-106-FL	FL	MPS90-106-FL

### ORDERING NOTES

- Specify black or grey (B = Black, G = Grey)  
eg: FPY80B-10M for Black 10m reel
- Available on request:
  - longer lengths and bulk packaging
  - cut lengths and assemblies
  - alternative conduit material
- FCC80 and FCC106 PVC lined plated steel P-clips

### STANDARDS

BS EN IEC 61386



## ACCESSORIES

**metric locknuts**

nickel plated brass, plated steel, stainless steel, nylon black or grey

**stop plug**

nylon metric black

**PG locknuts**

nickel plated brass, nylon black or grey

**stop plug**

nylon PG



nickel plated brass part number

nickel plated EMC part number

plated steel part number

stainless steel part number

nylon part number

metric part number

**B-M12**  
**B-M16**  
**B-M20** **B-M20-EMC**  
**B-M25** **B-M25-EMC**  
**B-M32** **B-M32-EMC**  
**B-M40** **B-M40-EMC**  
**B-M50**  
**B-M63**  
**B-M75**

**S-M16**  
**SS-M16**  
**S-M20** **SS-M20**  
**S-M25** **SS-M25**  
**S-M32** **SS-M32**  
**S-M40** **SS-M40**  
**S-M50**  
**S-M63**  
**SS-M63\***

**LM12-N\***  
**LM16-N\***  
**LM20-N\***  
**LM25-N\***  
**LM32-N\***  
**LM40-N\***  
**LM50-N\***  
**LM63-N\***

**SP-M12\***  
**SP-M16**  
**SP-M20**  
**SP-M25**  
**SP-M32**  
**SP-PG7** **PG7-N\***  
**SP-PG9** **PG9-N\***  
**SP-PG11** **PG11-N\***  
**SP-PG13** **PG13-N\***  
**SP-PG16** **PG16-N\***  
**SP-PG21** **PG21-N\***  
**SP-PG29** **PG29-N\***  
**SP-PG36** **PG36-N\***  
**SP-PG42** **PG42-N\***  
**SP-PG48** **PG48-N\***

\* add B or G to specify colour. eg. LM20-NB for Black

**rubber end sleeves**

part number

to fit conduit size

outlet ID mm

<b>ES10-13</b>	13	5
<b>ES14-17</b>	16	5
<b>ES17-20</b>	20/21	7
<b>ES19-22</b>	21	8
<b>ES21-24</b>	25	9

**90° elbow**

internal and external threaded nickel plated brass 90° elbow



threads

part number

<b>PG7</b>	<b>BM90-PG7</b>
<b>M16</b>	<b>BM90-16M</b>
<b>M20</b>	<b>BM90-20M</b>
<b>M25</b>	<b>BM90-25M</b>
<b>M32</b>	<b>BM90-32M</b>
<b>M40</b>	<b>BM90-40M</b>
<b>M50</b>	<b>BM90-50M</b>

**couplers**

nickel plated brass internally threaded



thread

metric thread part number

<b>M16</b>	<b>B-M16-C</b>
<b>M20</b>	<b>B-M20-C</b>
<b>M25</b>	<b>B-M25-C</b>
<b>M32</b>	<b>B-M32-C</b>
<b>M40</b>	<b>B-M40-C</b>
<b>M50</b>	<b>B-M50-C</b>
<b>M63</b>	<b>B-M63-C</b>
<b>M75</b>	<b>B-M75-C</b>

\* indicates parts made to order on request and may be subject to MOQ and lead time

## sealing washers

neoprene and fibre face sealing washers



metric thread part number	metric thread part number	PG thread part number	PG thread part number
---------------------------	---------------------------	-----------------------	-----------------------

<b>SW12</b>	<b>FW12</b>	<b>SPWG7</b>	<b>FWPG7</b>
<b>SW16</b>	<b>FW16</b>	<b>SPWG9</b>	<b>FWPG9</b>
<b>SW20</b>	<b>FW20</b>	<b>SPWG11</b>	<b>FWPG11</b>
<b>SW25</b>	<b>FW25</b>	<b>SPWG13</b>	<b>FWPG13</b>
<b>SW32</b>	<b>FW32</b>	<b>SPWG16</b>	<b>FWPG16</b>
<b>SW40</b>	<b>FW40</b>	<b>SPWG21</b>	<b>FWPG21</b>
<b>SW50</b>	<b>FW50</b>	<b>SPWG29</b>	<b>FWPG29</b>
<b>SW63</b>	<b>FW63</b>	<b>SPWG36</b>	<b>FWPG36</b>
		<b>SPWG42</b>	
		<b>SPWG48</b>	<b>FWPG48</b>

## earthing washers

shake proof washer      earth tag washer



metric thread part number	metric thread part number
---------------------------	---------------------------

<b>SPW16</b>	
<b>SPW20</b>	<b>ET-M20</b>
<b>SPW25</b>	<b>ET-M25</b>
<b>SPW32</b>	

## fixing clips

plated steel with black pvc liner or stainless steel.  
LFH liner available on request



to fit conduit size	part number	part number
10	<b>FCC10</b>	<b>FCC10-SS*</b>
12	<b>FCC12</b>	<b>FCC12-SS*</b>
16	<b>FCC16</b>	<b>FCC16-SS</b>
20	<b>FCC20</b>	<b>FCC20-SS</b>
25	<b>FCC25</b>	<b>FCC25-SS</b>
32	<b>FCC32</b>	<b>FCC32-SS</b>
40	<b>FCC40</b>	<b>FCC40-SS</b>
50	<b>FCC50</b>	<b>FCC50-SS*</b>
63	<b>FCC63</b>	
75	<b>FCC75</b>	

## conduit clip

nylon conduit clip with integral lid - black or grey



conduit clip for corrugated	conduit clip for rigid
-----------------------------	------------------------

## cable glands

NEW

Our range of Cable glands provides an easy to assemble, fast fit, liquid tight solution for multipurpose applications.

Available in four colours, Black, Red (RAL 3020), White and Light Grey (RAL 7035) they have been designed to provide the highest degree of functionality and safety.



### Technical Details

- Material: PA6
- IP Rating; IP68 (4 bar)
- Nitrile Rubber seal
- Produced and tested in accordance with EN 50262:1999
- Temperature range; -20°C to +90°C

Red, white and grey supplied with locknut. Black supplied without locknut.



### Technical Details

- Material: Nickel plated brass
- IP Rating; IP68 (10bar) + IP69K
- Produced and tested in accordance with EN 50262:1999
- Temperature range; -40°C to +100°C (static)  
-20°C to +100°C (dynamic)
- UL Listed

available on request: EMC versions, short threaded, Reduced clamp range.

## STANDARDS



\* refer to technical details

## ACCESSORIES

## convertors

nickel plated brass thread convertors, reducers and enlargers external and internal thread



## Metric Threads

external thread	internal thread	M16	M20	M25	M32	M40	M50
M16		B-M16-M20					
M20		B-M20-M16		B-M20-M25			
M25			B-M25-M20		B-M25-M32		
M32				B-M32-M25		B-M32-M40	
M40					B-M40-M32		
M50					B-M50-M32	B-M50-M40	
M63						B-M63-M40	B-M63-M50
PG7		B-PG7-M16					
PG9		B-PG9-M16	B-PG9-M20				
PG11		B-PG11-M16	B-PG11-M20				
PG13.5		B-PG13-M16	B-PG13-M20				
PG16		B-PG16-M16	B-PG16-M20	B-PG16-M25			
PG21			B-PG21-M20	B-PG21-M25	B-PG21-M32		
PG29			B-PG29-M20	B-PG29-M25	B-PG29-M32	B-PG29-M40	
PG36					B-PG36-M32	B-PG36-M40	
PG42							
PG48						B-M48-M40	
1/2" NPT			B-050-M20				
3/4" NPT			B-075-M20	B-075-M25			
1" NPT					B-100-M32		

## PG Threads

external thread	internal thread	PG7	PG9	PG11	PG13.5	PG16	PG21	PG29	PG36
M16		B-M16-PG7	B-M16-PG9	B-M16-PG11					
M20		B-M20-PG7	B-M20-PG9	B-M20-PG11	B-M20-PG13	B-M20-PG16	B-M20-PG21		
M25							B-M25-PG21		
M32							B-M32-PG29		
M40							B-M40-PG29		
M50								B-M50-PG36	
PG7			B-PG7-PG9						
PG9		B-PG9-PG7		B-PG9-PG11					
PG11		B-PG11-PG7	B-PG11-PG9		B-PG11-PG13				
PG13.5		B-PG13-PG7	B-PG13-PG9	B-PG13-PG11		B-PG13-PG16			
PG16		B-PG16-PG7	B-PG16-PG9	B-PG16-PG11	B-PG16-PG13		B-PG16-PG21		
PG21				B-PG21-PG11	B-PG21-PG13	B-PG21-PG16		B-PG21-PG29	
PG29						B-PG29-PG16	B-PG29-PG21		B-PG29-PG36
PG36								B-PG36-PG29	
PG42									B-PG42-PG36
PG48									B-PG48-PG36

## tools

The following tools and accessories are available to aid installation. See page 92 for cutting and assembly advice. Alternatively visit our website & view our handy video clips to aid your installation.

### clamp

cutting vice to hold metallic conduits and guide hacksaw



Part Number

**BSB** clamp

### hacksaw blade

fine tooth (32 TPI) blade for standard hacksaw



Part Number

**HACKSAWBLADE**

### bandsaw

bench mounted, 240v, fine toothed (32TPI) bandsaw



Part Number

**BANDSAW**

**BANDSAWBLADE** (spare blades)

### conduit cutter

for any non metallic flexible and rigid conduits



Part Number

**CC01** up to 34mm conduits  
**CC02** up to 67mm conduits

### slitting tool

can be used to slit all corrugated conduits down to 13mm



Part Number

**CS01** slitting tool

### slit conduit insertion tool

for easy installation of wires into slit conduit.



Part Number

**ST16** for conduit  
**ST20**  
**ST25**  
**ST32**  
**FPYS16 + FPYS12**  
**FPYS20**  
**FPYS25**  
**FPYS32**

### removal tool for push in Flexilok® fittings (see page 68)



Part Number

For use with:

**RTPF20** **FLK16-PL20, FLK20-PL20, FLK21-PL20**  
**RTPF25** **FLK25-PL25, FLK28-PL25**  
**RTPF32** **FLK34-PL32**

### STANDARDS



## CONTRACTOR PACKS

## CONDUIT

## FITTINGS

Each pack contains:

- 10m conduit**
- 10 fittings**
- 10 locknuts**



FPYE-CP25B

## Benefits

- Simplistic ordering
- Easy storage
- Ready to use

**PVC white**

IP66

NEW

FPL-CP20W	M20 thread
FPL-CP25W	M25 thread

- 10 metres of white corrugated UPVC FPL20 or FPL25
- Pliable conduit for static applications
- Self extinguishing

- 10 white nylon Flexilok fittings and locknuts FLK20-M20W or FLK25-M25W
- IP66
- 1 part, fast fit



**SLIT POLYPROPYLENE grey**

FPPS-TP21G

NEW

- 10 metres of slit grey polypropylene FPP21G
- Self extinguishing

- Can be slipped over existing cables to tidy up and protect them
- 1 slit conduit insertion tool ST20



## CONDUIT

## FITTINGS

### STEEL - pvc coating - black

FSU-CP20B M20 thread



IP54

### NYLON - black

FPAS-CP21B M20 thread  
FPAS-CP25B M25 thread



IP66

### PVC SPIRAL - black

FPC-CP20B M20 thread  
FPC-CP25B M25 thread



IP65

### NYLON - black

FPYE-CP20B M20 thread  
FPYE-CP25B M25 thread



IP66

NEW

### POLYPROPYLENE - black or grey

FPP-CP20B M20 thread  
FPP-CP25B M25 thread



IP66

NEW

- 10 metres of galvanised steel with PVC coating
- Temperature range -15°C to +70°C
- Self extinguishing
- High mechanical strength
- Highly flexible

- 5 M20 fixed fittings
- 5 M20 swivel fittings
- 10 steel locknuts
- IP54

- 10 metres of standard weight nylon PA6 FPAS21 or FPAS25
- Low fire hazard
- Halogen free
- Self extinguishing
- Low smoke and Low toxicity
- High flexibility and fatigue life
- High impact strength
- Oil and solvent resistant
- UV resistant

- Temperature range -40°C to +120°C
- 10 FPA fittings and locknuts FPA21-M20B or FPA25-M25B
- One part, fast fit
- Removable using a screwdriver
- High pull-off strength
- Anti-vibration
- IP66
- UV resistant

- 10 metres of spiral reinforced pvc FPC20 or FPC25
- Highly flexible
- Accepts torsional movement
- Self extinguishing
- UV resistant
- Temperature range -5°C to +70°C

- 10 MPC fittings and locknuts
- IP65
- UV resistant

- 10 metres of light weight nylon PA6 FPAL20 or FPAL25
- Flexible
- Halogen free
- Self extinguishing
- Temperature range -40°C to +120°C

- 10 Flexilok fittings and locknuts FLK20-M20B or FLK25-M25B
- IP66
- One part, fast fit

- 10 metres of polypropylene FPP20 or FPP25
- Temperature range -20°C to +90°C
- Self extinguishing
- To specify grey change B to a G eg: FPP-CP20G

- 10 Flexilok (PP) fittings and locknuts FLK20-M20-PP or FLK25-M25-PP
- IP66
- One part, fast fit

## STANDARDS

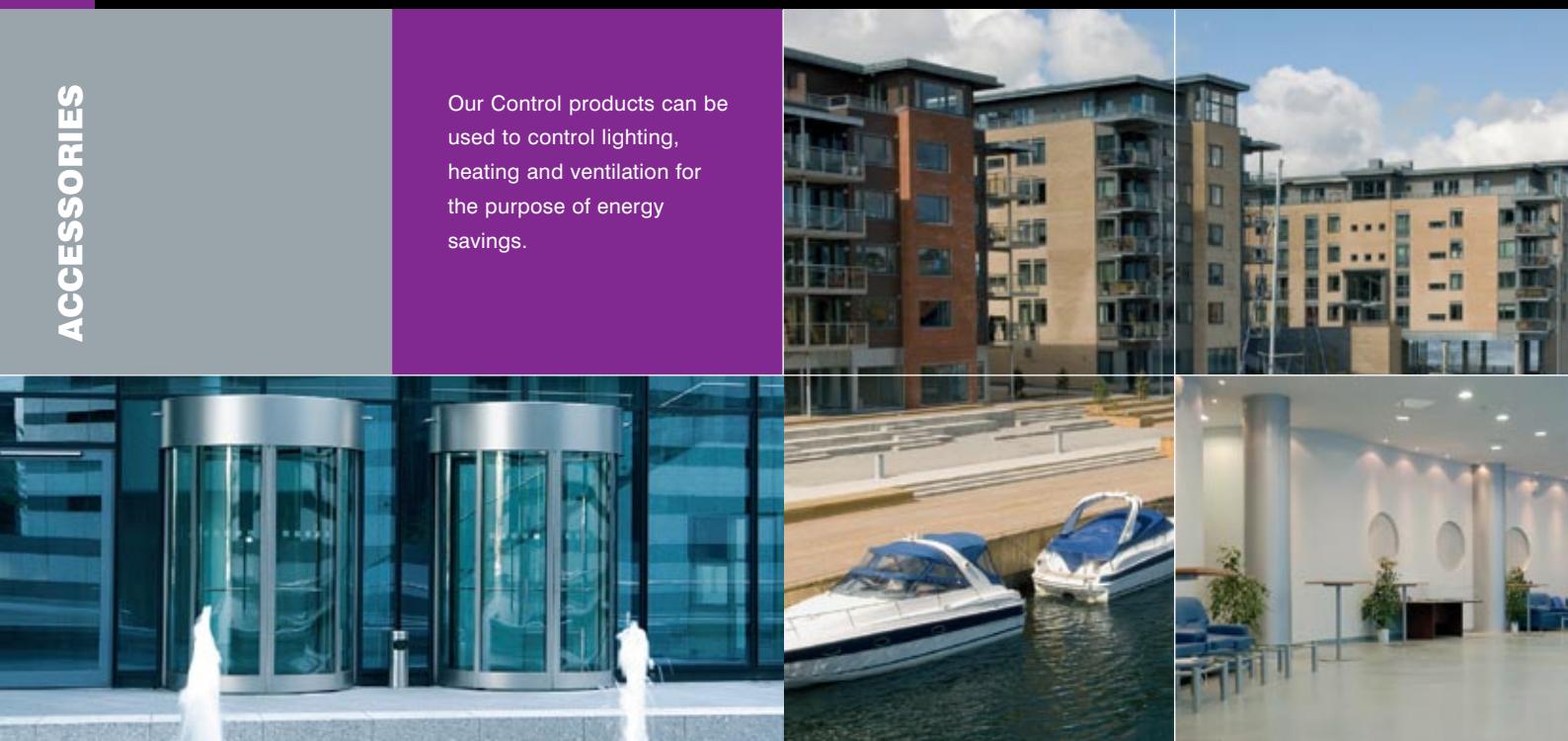


## DON'T FORGET

See page 52



# energy management products



Our Control products can be used to control lighting, heating and ventilation for the purpose of energy savings.

Energy management doesn't need to be complicated. Energy savings can be quickly realised by using our simple and easy to use range of Timer products.

Ensuring that lighting and other loads are only on when required can greatly reduce your electricity bill. Automatic control can offer improved functionality (by bringing lights on automatically when required rather than requiring a

manual switching action) for building occupants as well as reducing your carbon footprint.

Lighting is one of the most significant loads within a building (often accounting for 70% in a commercial office environment). Our Control products can be used to control lighting, heating and ventilation for the purpose of energy savings.

## Range of Products

- Pneumatic push button timeswitches - FTS
- Electronic push button timeswitches - FTE

**NEW**



## Flexicon Timeswitch range:

The easy to use, easy to fit switch that turns off automatically with an adjustable time delay.

- No more switches left on - save money
- Reduce wasted energy and work to environmental targets
- Single gang design suits new installations or replaces existing wall switches
- Ideal for staircases, hallways and corridors
- Simple to install - fits standard 20mm or 25mm BS single gang accessory boxes
- IP66 version suitable for outdoor applications
- Slave connection available on Electronic switches
- Large push pad eases activation
- Aesthetic design - no screws visible fixing

# time delay switches



## Pneumatic

### Time Delay Switches

Part No.	Description
<b>FTS40</b>	<b>Single Pole Changeover</b>
<b>FTS41</b>	<b>Single Pole Changeover c/w Neon</b>
<b>FTS42</b>	<b>Double Pole Changeover</b>
<b>FTS43</b>	<b>Double Pole Changeover c/w Neon</b>
<b>FTS163</b>	<b>Weatherproof Shroud</b>

### Product Selection;

- Switch Current at 240V AC:**  
Incandescent (GLS) 6A  
Fluorescent 3A  
Compact fluorescent 3A  
(6 fittings max)
- Adjustable Time Delay:**  
10 seconds to 10 minutes
- Connections:**  
No neutral required  
NO (normally open) and NC  
(normally closed) contacts  
Use as intermediate if wired in parallel



**FTS40**

## Electronic

### Time Delay Switches

Part No.	Description
<b>FTE2PBE</b>	<b>Single pole timer - ECO</b>
<b>FTE2PBP</b>	<b>Single pole timer - Premier</b>

**NEW**

### Product Selection;

- Switch Current at 240V AC:**  
Incandescent (GLS) 16A  
Fluorescent 16A  
Compact fluorescent 16A
- Adjustable Time Delay:**  
FTE2PBE 5 secs. to 20 mins.  
FTE2PBP 5 secs. to 2 hrs.
- Connections:**  
No neutral required  
Use as intermediate if wired in parallel  
Slave connection available



**FTE2PBP**

### Weatherproof Time Delay Switches

Part No.	Description
<b>FTE2PBW</b>	<b>Single pole timer - Waterproof</b>

**NEW**

### Product Selection;

- Switch Current at 240V AC:**  
Incandescent (GLS) 16A  
Fluorescent 16A  
Compact fluorescent 16A
- Adjustable Time Delay:**  
FTE2PBW 5 secs. to 2 hrs.
- Connections:**  
No neutral required  
Use as intermediate if wired in parallel  
Slave connection available
- IP rating IP66**



**FTE2PBW**

- NB. For connection diagrams see pages 93 or visit our website.

Page number

## conduit system

		ASTM NO. 1	ASTM NO. 2	ACETIC ACID (1%)	ACETONE	ALUMINUM CHLORIDE	BENZENE	CARBON TETRACHLORIDE	CHLOROFORM	CITRIC ACID	COPPER SULPHATE	CRESOL	DIESEL OIL	DIETHYLAMINE	ETHANOL	ETHER	ETHYL AMINE	ETHYLENE GLYCOL	FREON 32	HYDROCHLORIC ACID (10%)	HYDROCHLORIC ACID (30%)
20	<b>FU</b> galvanised steel	✓ ✓ ✓ X ✓ X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X X X																			
20	<b>SSU</b> stainless steel, grade 316	✓ ✓ ✓ ✓ ✓ X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X X X																			
22	<b>FSU</b> galvanised steel, pvc coated	X X X L X X X X X ✓ ✓ L L X X X X L L ✓ X																			
22	<b>FNU</b> galvanised steel, nylon coated	✓ ✓ ✓ L ✓ X L ✓ X ✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X X																			
24	<b>LFHU</b> galvanised steel, LFH coated	L L L ✓ X X X X X ✓ ✓ X X ✓ X X X ✓ X X X																			
24	<b>FPU</b> galvanised steel, polyurethane coated	✓ ✓ ✓ X L L L L X ✓ ✓ X ✓ L ✓ L X ✓ L X ✓ X X X																			
26	<b>LTP</b> galv steel, pvc coated, liquid tight	L L L ✓ X X X L X ✓ ✓ L L L X L L L L L L X																			
26	<b>LTPHC</b> galv steel, thermoplastic rubber, liquid tight	✓ L L ✓ ✓ X X L L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ L ✓ X ✓ ✓																			
26	<b>LTPUL</b> galv steel, pvc coated, liquid tight	✓ ✓ ✓ ✓ X X X L X ✓ ✓ L ✓ L X L L L L L L X																			
26	<b>LTPE</b> galv steel, pvc coated, liquid tight	✓ ✓ ✓ ✓ X X X L X ✓ ✓ L ✓ L X L L L L L L X																			
28	<b>LTPSS</b> stainless steel, pvc coated, liquid tight	✓ ✓ ✓ ✓ X X X L X ✓ ✓ L ✓ L X L L L L L L X																			
28	<b>LTPPU</b> galv steel, polyurethane coated, liquid tight	✓ ✓ ✓ X L L L L X ✓ ✓ X ✓ L ✓ L X ✓ L X ✓ X X X																			
28	<b>LTBRDP</b> galv steel, braided core, pvc coated, liquid tight	✓ ✓ ✓ ✓ X X X L X ✓ ✓ L ✓ L X L L L L L L X																			
28	<b>LTBRDLFH</b> galv steel, braided core, pvc coated, liquid tight	L L L ✓ X X X X X ✓ ✓ X X ✓ X X X ✓ X X X																			
32	<b>FL</b> galvanised steel, pliable	✓ ✓ ✓ X ✓ X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X X X																			
32	<b>FLP</b> galvanised steel, pvc coated, pliable	X X X L X X X L X ✓ ✓ L L L X L L L L ✓ L																			
32	<b>LFHP</b> galvanised steel, LFH coated, pliable	L L L ✓ X X X X X ✓ ✓ X X ✓ X X X ✓ X X X																			
34	<b>FSB</b> galv steel, pvc, galv steel overbraid	X X X L X X X X X ✓ ✓ L L X X X X L L ✓ X																			
34	<b>LFHUBRD</b> galv steel, LFH coated, SS316 overbraid	L L L ✓ X X X X X ✓ ✓ X X ✓ X X X ✓ X X X																			
36	<b>FB</b> galvanised steel, galv steel overbraid	✓ ✓ ✓ X ✓ X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X X X																			
36	<b>FUSSB</b> galvanised steel, SS316 overbraid	✓ ✓ ✓ X ✓ X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X X X																			
38	<b>LTPBRD</b> galv steel, rubber coated, SS316 overbraid	✓ L L ✓ ✓ X X L L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ L ✓ X ✓ ✓																			
40	<b>FPRSS</b> PA6 corrugated, SS316 overbraid	✓ ✓ ✓ L ✓ X ✓ ✓ ✓ X ✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X X																			
40	<b>FRTC</b> PA6 corrugated, tinned copper overbraid	✓ ✓ ✓ L ✓ X ✓ ✓ ✓ X ✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X X X																			
40	<b>FPISS</b> PA12 corrugated, SS316 overbraid	✓ ✓ ✓ L ✓ L ✓ ✓ X ✓ L X ✓ ✓ L L ✓ L ✓ ✓ X X X																			
40	<b>FPIHSS</b> PA12 corrugated, SS316 overbraid	✓ ✓ ✓ L ✓ L ✓ ✓ X ✓ L X ✓ ✓ L L ✓ L ✓ ✓ ✓ X X X																			

## key

✓ good resistance  
L limited resistancePP suitable with polypropylene fittings  
SS suitable with stainless steel fittings

X poor resistance

# metallic conduit and fittings



The chart above is based on exposure to single chemicals at room temperature and should be used as a selection guide. For additional chemicals, higher concentrations, elevated temperatures or combinations of chemicals, please call +44 (0)1675 466900 for technical advice.

Page number	conduit system	ASTM NO. 1	ASTM NO. 2	ASTM NO. 3	ACETIC ACID (10%)	ACETONE	ALUMINUM CHLORIDE	BENZENE	CARBON TETRACHLORIDE	CHLOROFORM	CITRIC ACID	COPPER SULPHATE	CRESOL	DIESEL OIL	DIETHYLAMINE	ETHANOL	ETHER	ETHYL AMINE	ETHYLENE GLYCOL	FREON 32	HYDROCHLORIC ACID (10%)	HYDROCHLORIC ACID (30%)
50	<b>FPAS</b> nylon LFH PA6 corrugated, std weight	✓ ✓ ✓	L ✓ X ✓ ✓ X ✓ ✓	✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X																		
50	<b>FPAL</b> nylon PA6 corrugated, light weight	✓ ✓ ✓	L ✓ X ✓ ✓ X ✓ ✓	✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X																		
51	<b>FPAH</b> nylon LFH PA6 corrugated, heavy weight	✓ ✓ ✓	L ✓ X ✓ ✓ X ✓ ✓	✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X																		
51	<b>FPR</b> nylon extra LFH PA6 corrugated, std weight	✓ ✓ ✓	L ✓ X ✓ ✓ X ✓ ✓	✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X																		
51	<b>FPI</b> nylon PA12 corrugated, standard weight	✓ ✓ ✓	L ✓ L ✓ ✓ X ✓ ✓	✓ L X ✓ L L ✓ L ✓ ✓ X X																		
51	<b>FPIH</b> nylon PA12 corrugated, heavy weight	✓ ✓ ✓	L ✓ L ✓ ✓ X ✓ ✓	✓ L X ✓ L L ✓ L ✓ ✓ X X																		
52	<b>FPY</b> nylon PA6 corrugated, light weight	✓ ✓ ✓	L ✓ X ✓ ✓ X ✓ ✓	✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X																		
52&69	<b>FPADS</b> nylon PA6 double slit corrugated	✓ ✓ ✓	L ✓ X ✓ ✓ X ✓ ✓	✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X																		
52	<b>FPP</b> polypropylene corrugated, std weight	✓ ✓ L PP ✓	L L L L ✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ PPPP																			
52	<b>FPP-NFR</b> polypropylene corrugated, non flame retarded	✓ ✓ L PP ✓	L L L L ✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ PPPP																			
52	<b>FPPH</b> polypropylene corrugated, heavy weight	✓ ✓ L PP ✓	L L L L ✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ PPPP																			
72	<b>FPCB</b> pvc spiral reinforced black	X X X L X L X L X	✓ L X L L X L L L L X X																			
72	<b>FPCG</b> pvc spiral reinforced grey	X X X L X L X L X	✓ L X L L X L L L L X X																			
72	<b>FPCGN</b> pvc spiral reinforced green oil resistant	✓ ✓ ✓ ✓ X X X L X	✓ ✓ L ✓ L X L L L L L X																			
72	<b>FPCBU</b> pvc spiral reinforced blue high temperature	X X X L X L X L X	✓ L X L L X L L L L X X																			
74	<b>LPC</b> smooth, pvc spiral reinforced	✓ ✓ ✓ ✓ X X X L X	✓ ✓ L ✓ L X L L L L L X																			
74	<b>LPCO</b> smooth pvc spiral orange ultra flexible	✓ ✓ ✓ ✓ X X X L X	✓ ✓ L ✓ L X L L L L L X																			
74	<b>LPCGN</b> smooth pvc spiral green oil resistant	✓ ✓ ✓ ✓ X X X L X	✓ ✓ L ✓ L X L L L L L X																			
74	<b>LPCBU</b> smooth pvc spiral blue high temperature	✓ ✓ ✓ ✓ X X X L X	✓ ✓ L ✓ L X L L L L L X																			
76&69	<b>FPL</b> upvc corrugated	✓ ✓ ✓ L X L X L X	✓ L X ✓ L ✓ L ✓ L X X																			
77	<b>FPY</b> nylon PA6, large diameter, std weight	✓ ✓ ✓ L ✓ X ✓ ✓ X ✓	✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X																			

**key**✓ good resistance  
L limited resistancePP suitable with polypropylene fittings  
SS suitable with stainless steel fittings

X poor resistance

# **non-metallic** conduit and fittings

The chart above is based on exposure to single chemicals at room temperature and should be used as a selection guide. For additional chemicals, higher concentrations, elevated temperatures or combinations of chemicals, please call +44 (0)1675 466900 for technical advice.



# thread data and cable carrying capacity

## metric

standard thread conforming to EN60423

Thread size	External thread outside diameter (mm)	Internal thread inside diameter (mm)	Pitch mm
M12	12.0	10.4	1.5
M16	16.0	14.4	1.5
M20	20.0	18.4	1.5
M25	25.0	23.4	1.5
M32	32.0	30.4	1.5
M40	40.0	38.4	1.5
M50	50.0	48.4	1.5
M63	63.0	61.4	1.5
M75	75.0	73.4	1.5

## UNEF/UNS/UN

American unified thread conforming to BS1580 used on circular connectors

UNEF imperial sizes	Thread size (inches)	External thread outside diameter (mm)	Internal thread inside diameter (mm)	Pitch mm
3/8" - 24 UNEF	3/8"	15.9	14.7	1.06
3/4" - 20 UNEF	3/4"	19.1	17.7	1.27
7/8" - 20 UNEF	7/8"	22.2	20.9	1.27
1" - 20 UNEF	1"	25.4	24.0	1.27
1 1/16" - 18 UNEF	1 1/16"	30.2	28.6	1.41
1 1/8" - 18 UNEF	1 1/8"	34.9	33.4	1.41
1 1/4" - 18 UNEF	1 1/4"	31.8	30.2	1.41
1 1/16" - 18 UNEF	1 1/16"	36.5	35.0	1.41
1 1/4" - 18 UNS	1 1/4"	44.5	42.9	1.41
2" - 18 UNS	2"	50.8	49.3	1.41
2 1/4" - 18 UN	2 1/4"	57.2	55.4	1.41

## PG

German standard thread conforming to DIN40430

Thread size	External thread outside diameter (mm)	Internal thread inside diameter (mm)	Pitch mm
PG7	12.5	11.3	1.27
PG9	15.2	13.9	1.41
PG11	18.6	17.3	1.41
PG13.5	20.4	19.1	1.41
PG16	22.5	21.2	1.41
PG21	28.3	26.8	1.59
PG29	37.0	35.5	1.59
PG36	47.0	45.5	1.59
PG42	54.0	52.5	1.59
PG48	59.3	57.8	1.59

## cable carrying capacity

UK wiring regulations BS7671, recommend that the total cross sectional area of the sum of the individual cables should not exceed 40% of the cross sectional area of the conduit. The nominal cross sectional area of single-core, stranded, PVC insulated cables is provided as a guide only. Other cables may have different dimensions.

Nominal conductor size (mm <sup>2</sup> )	Nominal overall cross sectional area (mm <sup>2</sup> ) of cable
1.0	6.6
1.5	7.6
2.5	9.6
4.0	14.5
6.0	18.8
10.0	29.3
16.0	40.2
25.0	63.8
35.0	83.5
50.0	113.0
70.0	149.0
95.0	204.0

Example: is LTP20 suitable for five 4.0mm<sup>2</sup> cables?

- The total cross sectional area of the conductors is  $5 \times 14.5\text{mm}^2 = 73\text{mm}^2$
- The cross sectional area of LTP20 is  $3.142 \times \frac{[inside\ diameter]^2}{2} = 201\text{mm}^2$
- % of conduit cross sectional area  $\frac{73}{201} = 36\%$

This is less than 40%; therefore this conduit is suitable for this combination of cables.

## UK wiring regulations

UK wiring regulations BS7671 prohibit the use of flexible or pliable conduit as an earthing conductor.

Where conduits of 40mm and above penetrate fire barriers in buildings the wiring regulations stipulate that internal seals should be used to maintain fire resistance.

To meet the UK wiring regulations conduit should be self extinguishing unless they are to be buried or contained in non combustible material e.g: concrete or plaster.

Please telephone the Flexicon hotline for further guidance.

## PF/ gas

Japanese conduit thread conforming to JIS B 0202

Thread size (inches)	External thread outside diameter (mm)	Internal thread inside diameter (mm)	Pitch mm
1/2"	21.0	18.6	1.81
3/4"	26.4	24.1	1.81
1"	33.3	30.3	2.31
1 1/4"	41.9	39.0	2.31
1 1/2"	47.8	44.8	2.31
2"	59.6	56.7	2.31

# IP rating and technical guidance

## IP ratings guide

(Ingress Protection to BS EN 60529)

**IP40**

### 1st digit – protection against solid objects

**0** No protection



**1** Protected against objects greater than 50mm



**2** Protected against objects greater than 12mm



**3** Protected against objects greater than 2.5mm



**4** Protected against objects greater than 1.0mm



**5** Ingress of dust is not totally prevented but dust does not enter in harmful quantities



**6** No ingress of dust

**IP40**

### 2nd digit – protection against water

**0** No protection



**1** Protected against falling drops



**2** Protected against drops falling at 15°



**3** Low pressure spray – similar to shower head at up to 60° from vertical



**4** Low pressure spray – similar to shower head – from any angle for 5 minutes



**5** Medium pressure jet – similar to garden hose – from any angle for 3 minutes



**6** High pressure jet – similar to fire hose – from any angle for 3 minutes



**7** Submersion at 1 metre for 30 minutes



**8** Higher water pressure eg: 2 bar for 2 hours. Conduits are tested in-house at up to 10 bar. (equivalent to 100m underwater)

**9K** Steam clean, high pressure high temp jet wash to DIN40050.

## Buyer beware

IP tests are type tests of short duration and do not guarantee long term performance. EN 60529 states that equipment conforming to IP67 or IP68 cannot be assumed to meet IP66 and that the manufacturer shall declare the pressure and duration of the test, for example, FPAX 2 bar for 2 hours.

## Technical guidance

### Application advice

Flexicon can offer impartial advice on which of our wide range of conduit systems is most suited to your application. Factors which may be important include:-

- Compression strength
- Tensile strength
- Impact strength
- Temperature range
- Flexibility
- Fatigue life
- Electrical insulation or continuity
- IP rating
- Chemical resistance
- Corrosion resistance
- Abrasion resistance
- UV resistance
- Anti vibration
- Fire performance
- EMC screening
- Dimensions
- Weight
- Colours
- Ease of installation
- Anti tamper
- Hazardous Areas

### Standards, performance and approvals

Flexicon conduits and fittings are manufactured by Flexicon to comply with the IEC and European conduit standard BS EN IEC 61386 - see classification table below.

Certain tests are carried out internally by Flexicon, other testing is carried out externally by accredited test laboratories. Specific test reports are available upon request.

Vibration and shock testing to EN61373 Cat 2.

Certain conduit systems have been tested and approved to the relevant parts of the Australian Standard AS2053.

Where product performance data over and above the requirements of BS EN IEC 61386 is provided e.g: Low Fire Hazard testing and EMC screening, other appropriate standards have been used.

Cable glands are manufactured to EN 50262.

Push button timers are manufactured to EN 60730-2-7.

Further information regarding standards and approvals can be found on page 96.

**Technical data sheets are available for most products**

Please call 01675 466900 for technical information and application advice.

### Flexicon has classified EMC screening as follows



Standard 50dB @ IMHz



Enhanced 60dB @ IMHz



Super 70dB @ IMHz

## Classification of conduit systems to BS EN IEC 61386

Level	1st digit Compression Strength N/50mm	2nd digit Impact Strength Joules at min temp	3rd digit Minimum Temp deg C	4th digit Maximum Temp deg C	5th digit Conduit Type	6th digit Electrical Properties	7th digit IP Rating Solids	8th digit IP Rating Water	9th digit Corrosion Resistance (water)	10th digit Tensile Strength N	11th digit Flame Propagation	12th digit Suspended Load N/48hr
0						None declared	0	None declared	None declared			
1	V. Light (125)	V. Light (0.5)	5	60	Rigid	Continuous	1	Low in & out	V. Light (100)	Non Flame Propagating	V. Light (20)	
2	Light (320)	Light (1)	-5	90	Pliable	Insulating	2	Medium in & out	Light (250)	Flame Propagating	Light (30)	
3	Medium (750)	Medium (2)	-15	105	Pliable self recovering	Continuous + Insulating	3	Medium in & high out	Medium (500)			Medium (150)
4	Heavy (1250)	Heavy (6)	-25	120	Flexible		4	High in & out	Heavy (1000)			Heavy (450)
5	V. Heavy (4000)	V. Heavy (20)	-45	150			5	5	V. Heavy (2500)			V. Heavy (850)
6			250				6	6				
7			400				7					



# cutting & assembly guidance

Visit our website for instructional videos offering useful hints on how to speed up your conduit installation using our products – [www.flexicon.uk.com](http://www.flexicon.uk.com)

## Cutting Conduit

### Non-Metallic



Non-metallic conduits and FLP up to 34mm can be easily cut with Flexicon Conduit Cutters, part no. CC01. Use CC02 for sizes up to 67mm. Drop the blade into a corrugation and squeeze and twist until conduit is cut 50% through. Cut the remaining 50% without twisting to achieve a square cut.

### Metallic



Metallic conduits should be cut with a fine tooth (32 TPI) hacksaw or bandsaw. Ensure you make a straight vertical cut. Our clamping vice, part no. BSB makes the use of a hacksaw much easier.

### Overbraided



Cutting of overbraided conduit is made much easier by tightly wrapping self adhesive tape around the conduit and sawing through the middle of the tape. The tape should be removed if EMC screening is required. Ensure you make a straight vertical cut.

Flexicon offer a bench mounted bandsaw designed to cut metallic conduit easily – see Page 81. Conduit length is measured under light tension. When cutting an exact number of lengths from a reel (e.g. 5 x 5m from 25m) please take into account the length tolerance of the reel and each cut length.

## Non-Metallic Fittings

### FPA Fitting



Our range of non-metallic conduit fittings, Flexilok®, FPA and FPAX are all push fit fittings which are quick to assemble once you have cut the conduit to length.

### FPA



For Flexilok® and FPA fittings simply push the conduit into the end of the fitting with a slight twist until it will go no further. Pull back slightly to ensure the locking teeth mechanism has engaged with the corrugations.

### FPAX



The FPAX fitting features a conduit seal to provide the ultimate IP rating up to IP69K. This simply fits onto the end of the conduit before the fitting is connected to the conduit. To aid assembly moisten this seal. An FPA fitting cannot be upgraded to IP69K with the addition of a seal. Pull back slightly to ensure the locking teeth mechanism has engaged with the corrugations.

To remove the FPA or FPAX fittings simply insert a small screwdriver into the screwdriver slot and move the screwdriver handle towards the "off" position. Remove the screwdriver then manually twist the cap further towards the off position - the fitting can then be released from the conduit. Once removed, the fitting can be reused by simply twisting the cap so that the screwdriver slot lines up with the ON position.

## Metallic Fittings

### FSU Conduit



Our fitting's components are supplied part assembled to illustrate how they go together. Our C type fittings consist of a compression nut, an elastomeric seal, an insert and a body.

### Insert being fitted



Firstly place the back nut on the conduit followed by the seal (note the orientation). Next, screw the insert into the end of the conduit until this gives a secure fit.

### Attaching the body



Bring the body to mate with the back nut. Metal fittings should be tightened with grips or spanner to ensure security and IP rating.



# cutting & assembly guidance

## BRAIDED FITTINGS

Our type-C braided fittings consist of an outer compression nut, an inner compression nut, an elastomeric seal, an insert and a body. Firstly place the outer compression nut on the conduit as per 1. Remove the tape securing the braid and pull back to allow the inner compression nut to be fitted as per 2. Next, fit the elastomeric seal (note the orientation) and screw the insert into the end of the conduit until this gives a secure fit as per 3.



## EMC SCREENING USING PLIABLE CONDUIT

To obtain EMC screening on pliable FLP conduit, the PVC sheath must be trimmed back prior to assembly of the fitting to ensure good electrical contact with the tapered bore of the fitting body as shown



Bring the body to mate with the inner compression nut and secure. Next, bring the back shell to mate with the inner compression nut to secure the braid as per 4. Metal fittings should be tightened with grips or spanner to ensure securing and IP rating as per 5.

## PUSH IN FLEXILOK® REMOVAL TOOL

Snap in Flexilok® fittings can be removed by using a tool – see page 81



## GENERAL

We recommend that SW rubber sealing washers are used with plastic threads and FW fibre washers are used with metal threads to maintain IP rating between systems, see page 79.

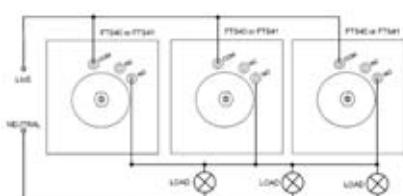
The easiest way of installing cables into flexible and pliable conduit is to simultaneously draw in the cables with the conduit in straight condition before installation.

## Energy Management Products

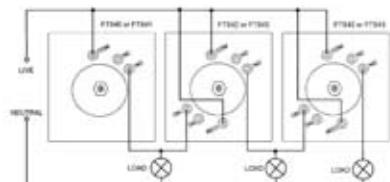
Refer to our website to view a copy of our product instruction sheets

### FTS Pneumatic Timeswitch connections

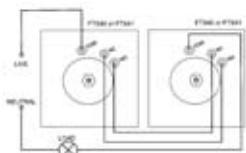
#### 1. Corridor lighting



#### 2. Staircase lighting



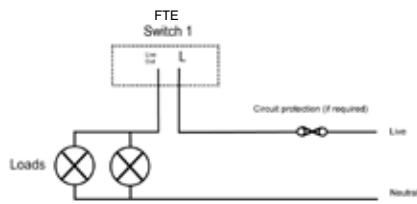
#### 3. Two way switching



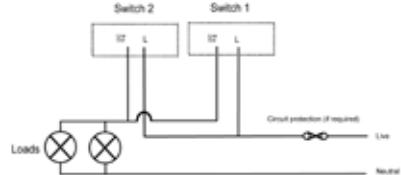
### FTE Electronic Timeswitch connections:

#### FTE2PBE, FTE2PBP and FTE2PBW

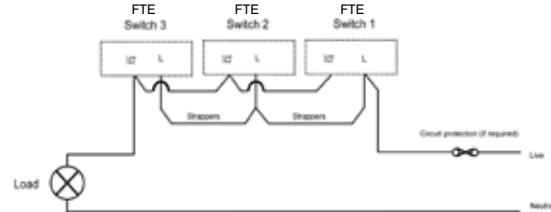
##### 1. Conventional



##### 2. Multiple



##### 3. Replace intermediate



### Safety Warning:

The product should be installed by a qualified electrician in accordance with the latest edition of the UK wiring regulations.

Disconnect the power supply before attempting any work on the Timer or connected circuits.

The electrical connection lead must be dead during installation. Therefore, switch off the mains power first and verify that the circuit is dead using a voltage tester.

# low fire hazard (LFH) performance

LFH encompasses LSF (low smoke and fume) and LSOH (low smoke zero halogen)

Low Fire Hazard (LFH) conduit systems are becoming an increasing part of the specification in many cabling applications. Public buildings, retail outlets, high rise office blocks, hospitals and transport installations - these are just a few of the instances where Low Fire Hazard products may be demanded.

**Low Fire Hazard systems are required to protect personnel and property in the event of a fire and may be demanded by specifiers, occupiers, fire services or even insurers.**

At Flexicon we define a Low Fire Hazard product by having all of the following properties:

- **Highly Flame Retardant** to prevent a fire or limit its development if one does start.
- **Low Smoke** emission in the event of a fire to enable personnel to see their way to escape.

## Tests used

**Flame Retardancy** BS EN IEC 61386 tests that conduits and fittings are self extinguishing. Vertical samples of conduit are subjected to a 1KW flame test. Fittings are subjected to a 750°C glow wire test.

BS EN ISO 4589 determines the Limiting Oxygen Index (LOI) of a material. This is the percentage of oxygen in the air that would have to be present for the material to burn. Normal air contains 21% oxygen, BS 6853:1999, the UK code of practice for railway rolling stock requires 28% LOI for overground and 34% LOI for underground passenger carriages.

UL 94 is a UL (Underwriters Laboratories) standard to assess the flammability of materials. Classifications are HB, V2, V1, and V0 in order of increasing flame retardancy. UL 94 HB allows horizontal burning up to a certain rate, UL 94 V0 is highly flame retardant.

**Smoke Opacity** is evaluated by burning a known amount of product or material in a specified smoke chamber. A light is shone through the smoke and the loss in transmittance of light is measured over time.

## Buyer Beware

All four properties: **Highly Flame Retardant, Low Smoke, Low Toxicity, Halogen Free**, must be present to claim LFH.

Halogen free does not assure low smoke and low toxicity.

- **Low Toxicity** in the event of a fire to ensure personnel are not overcome during their escape.
- **Halogen Free** gives an indication of low smoke and low toxicity. It also rules out halogen acid gas emission - a fact that is of interest to insurers as acid smoke can destroy computer equipment and damage the structure of a building. Halogens are Fluorine, Chlorine, Bromine and Iodine.

**Toxicity** is evaluated by burning a sample of material under known conditions. The fumes are analysed to find the volume of each gas that is given off. The volume of each gas is multiplied by its toxic potency to give a toxicity index for the material.

## Standards

All of the following standards assess flame retardancy, smoke emission and toxicity including halogen content.

<b>BS 6853</b>	UK rail rolling stock
<b>LUL 1-085</b>	London Underground rolling stock and stations
<b>NFF 16-101/2</b>	French rail rolling stock
<b>DIN 5510</b>	German rail rolling stock
<b>TS 45545</b>	New European rail rolling stock
<b>AS/NZS 1530</b>	Australian/New Zealand rail rolling stock
<b>Defence Standard 61-12 part 31</b>	UK Ministry Of Defence



A low smoke and fume product may not be self-extinguishing let alone highly flame retardant. Ensure your supplier provides performance data on all four aspects of Low Fire Hazard performance.

Full independent test reports are available on request.



## Performance of Flexicon LFH Products



### FU, SSU, FB, FUSSB and metal fittings

These products are made exclusively of metal (steel, stainless steel or brass) and are all inherently low fire hazard.

Fully compliant to LUL Std I-085 LUL product registration certificate 296.



### LFHU, LFHP, LTBRDLFH and LFHUBRD

Self extinguishing	to EN 61386
Highly flame retardant	LOI = 43% UL 94 V0
Low smoke to BS6853	maximum opacity Ao = 0.01
Compliant to BS 6853:1999 -	Table 7 Interior use, for Categories 1a, 1b, II Table 8 Exterior use, for Categories 1a, 1b, II
Compliant with GM/RT2120 issue 2, Appendix 1	
Low toxicity	toxicity index to NES713 = 1
Compliant to LUL Std I-085 Limited and dispersed use. LUL product registration certificate 297	
Halogen, sulphur & phosphorus free	



### FPAS and FPAH

Self extinguishing	to EN 61386
Highly flame retardant	LOI = 26% UL 94 V2
Low smoke to BS6853	maximum opacity Ao = 0.02
Low toxicity	toxicity index to BS6853 Annex B = 1.55
Ignition and fume rating to	NFF16-101/2 = I4F1
Halogen, sulphur & phosphorus free	



### FPI, FPIH, FPISS and FPIHSS

Self extinguishing	to EN 61386
Flame retardant	LOI = 22%
Low smoke to BS6853	maximum opacity Ao = 0.05
Low toxicity	toxicity index to BS6853 Annex B = 1.32
Ignition and fume rating to	NFF16-101/2 = I4F2
Halogen, sulphur & phosphorus free	



### FPR, FPRSS and FPRTC

Self extinguishing	to EN 61386
Highly flame retardant	- LOI = 35% - UL 94 V0
Low smoke to BS6853	- maximum opacity Ao = 0.01
Compliant to BS 6853:1999 -	Table 7 Interior use, for Categories 1a, 1b, II Table 8 Exterior use, for Categories 1a, 1b, II
Compliant with GM/RT2120 issue 2, Appendix 1	
Low toxicity	- toxicity index to BS6853 Annex B = 0.99
Ignition and fume rating to	- NFF16-101/2 = I2F1
DIN 5510 rating	= S4 SR2 ST2
Compliant to LUL Std I-085 Limited and dispersed use LUL product registration certificate 298	
Halogen, sulphur & phosphorus free	



### Nylon fittings (PA66)

Self extinguishing	to EN 61386
Highly flame retardant	- LOI = 28% - UL 94 V2
Low smoke to BS6853	- maximum opacity Ao = 0.03
Compliant to BS 6853:1999 -	Table 7 Interior use, for Category II Table 8 Exterior use, for Category II
Compliant with GM/RT2120 issue 2, Appendix 1	
Low toxicity	- toxicity index to NES713 = 10
Ignition and fume rating to	- NFF16-101/2 = I3F2
Halogen, sulphur & phosphorus free	

# Standards and Approvals



BSEN ISO9001 2008

## BS EN IEC 61386



## Standards Australia (AS)

## ISO 9001

Flexicon is accredited to ISO 9001 2008 by the British Standards Institution (BSI) for the design and manufacture of conduit systems and accessories. Certificate No FM58347.



## BS EN IEC 61386

BS EN IEC 61386 is the new worldwide standard for conduit systems and is superceding the previous European conduit standard EN 50086. Flexicon were one of the first companies in the UK to have its products tested to the new standard.

Our Technical Director, Ian Gibson, is the chairman of both the IEC (worldwide) and CENELEC (European) committees that prepare conduit standards.

## CE

Flexicon are marked with the CE mark to show that they comply with the essential requirements of the relevant European Directives.

## RoHS

All Flexicon's products meet the requirements of the European RoHS Directive, Restriction of Hazardous substances. This precludes the use of certain toxic materials and heavy metals.

## REACH

All Flexicon products in the catalogue meet the requirement of the European REACH regulation, Regulation, Evaluation, Authorisation and restriction of Chemicals.

## Lloyds Register of Shipping Type Approval

Specific conduit systems from Flexicon have Lloyds Register of Shipping Type Approval having been assessed for suitability for marine and other arduous applications.



## Standards Australia (AS)

Standards Australia is Australia's peak standards body. It co-ordinates standardisation activities, develops internationally aligned Australian Standards and facilitates the accreditation of other Standards Development Organisations. Certain conduit systems have been tested and approved to the relevant parts of the Australian Standard AS2053.

## WEEE

Flexicon's conduit products are not covered by the European WEEE Directive, Waste Electrical and Electric Equipment.



## North American Approvals



Most of Flexicon's nylon conduits and fittings have UL (Underwriters Laboratories) recognition for component use within UL listed equipment. File No. E229161.

Some nylon conduits have cUL listing to the UL standard UL1660 and CSA standard C22.2 No. 227.2.1. File No. 246572.

Some nylon fittings have cUL listing to UL514B and CSA standard C22.2 No. 18.3-04. File No. E247502.

LTPUL conduit is UL listed to UL360 and CSA approved.

FPC conduits and MPC fittings are UL recognised to UL1696 and CSA standard 22.2 No. 227 for use in USA and Canada. File No. E229161.



## Rail accreditations

Flexicon's Low Fire Hazard conduits and fittings have been independently tested to following international rail fire standards.

France NFF 16-101/2, Germany DIN 5510, UK BS 6853, London Underground LUL 1-085 GM/RT2120, Australia/New Zealand AS/NZS 1530, European TS 45545.



Flexicon holds a wide range of Product Registration Certificates issued by Transport for London, London Underground Ltd.



## Hazardous Area Approvals

Flexicon's EXD glands have been tested and accredited by SIRA to both ATEX and IECEx Ex d, Ex e and Ex t applications.



## UK MOD

Flexicon is a registered supplier to the UK Ministry of Defence NCAGE No. U5256 and holds NATO codification numbers for specific conduits.



## BEAMA Installation Member

BEAMA Installation Limited is the UK's trade body for manufacturers of electrical installation and cable management products.

### Errors, omissions and amendments excepted

Information given in this catalogue is for guidance only as our policy is one of continuous development and specifications may change. Flexicon is not liable for claims arising from product misuse.

### Terms and Conditions of Sale

Products are supplied subject to Flexicon terms and conditions of sale. These can be viewed on our website [www.flexicon.uk.com](http://www.flexicon.uk.com)

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