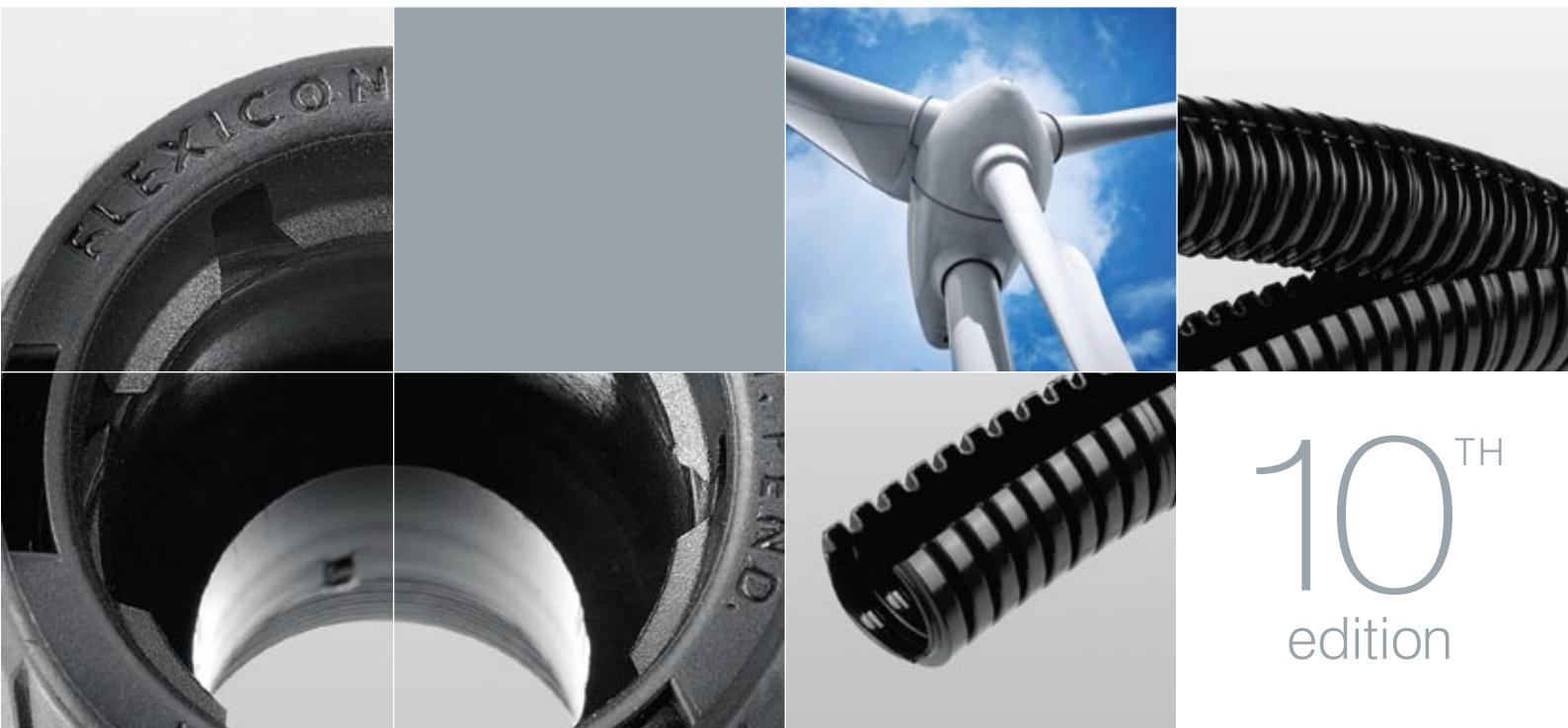


FLEXICON

FLEXIBLE CONDUIT SOLUTIONS



10TH
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

Flexicon Pty www.flexiconaustralia.com

Flexicon Europe www.flexicon.eu.com

Flexicon USA www.flexicon.us.com

Griflex www.griflex.com

contents

Introduction

why choose Flexicon	4
NEW products	6
application solutions	8

metallic conduit and fittings

conduit selection guide	16
metallic fittings selection guide	18
FU/SSU - flexible steel conduit & fittings	20
FSU/FNU - flexible coated steel conduit & fittings	22
LFHU/FPU - flexible coated steel conduit & fittings	24
LTP/LTPHC/LTPUL/LTPE - liquid tight flexible coated conduit & fittings	26
LTPSS/LTPPU/LTBRDP/LTBRDLFH - specialist liquid tight flexible coated conduit & fittings	28
EXD flameproof conduit fittings	30
FL/FLP - pliable steel conduit & fittings	32
Ultrascreen® LFHP - pliable coated steel conduit & fittings	33
FSB/LFHUBRD - flexible coated steel conduit with overbraid & fittings	34
FB/FUSSB - flexible steel conduit with overbraid & fittings	36
LTPBRD - flexible coated steel conduit with overbraid & fittings	38
FPRSS/FPRTC/FPISS/FPIHSS - flexible nylon conduit with overbraid & fittings	40
FTCB braided sleeving	42
conduit fittings offering integral strain relief	43

non-metallic conduit and fittings

conduit selection guide	46
non-metallic fittings selection guide	48
conduits:	
FPAS/FPAL - standard & lightweight nylon flexible conduit	50
FPAH/FPR/FPI/FPIH - standard & heavyweight nylon flexible conduit	51
FPY/FPADS/FPP - polypropylene, nylon & double slit flexible conduit	52
FPA type fittings	54
FPA BRASS type fittings	57
FPAX type fittings	60
FPAX BRASS type fittings	63
FPA & FPAX T Pieces and Dividers	66
Flexilok® fittings	68
white products - conduit and accessories	69
MP/MPS type fittings	70
MSL/MPC type fittings	71
conduits:	
FPC - pvc spiral flexible conduit & fittings	72
LPC - pvc spiral smooth conduit & fittings	74
FPL - upvc corrugated pliable conduit & fittings	76
FPY large corrugated - nylon large diameter flexible conduit & fittings	77

accessories

locknuts, stopping plugs, conduit clips, thread converters, cable glands and tools	78-81
contractor packs	82
energy management products	84

technical data

resistance to chemicals - metallic	86
resistance to chemicals - non-metallic	88
thread data and IP ratings	90-91
cutting and assembly guidance	92-93
performance of low fire hazard conduits & fittings	94
quality approvals	96
part number index	98

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 $\frac{1}{4}$ " 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



Flexicon a global presence

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



www.flexicon.us.com | www.flexicon.uk.com | www.flexicon.eu.com | 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

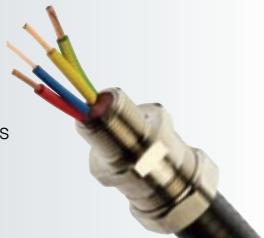
what's new?

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

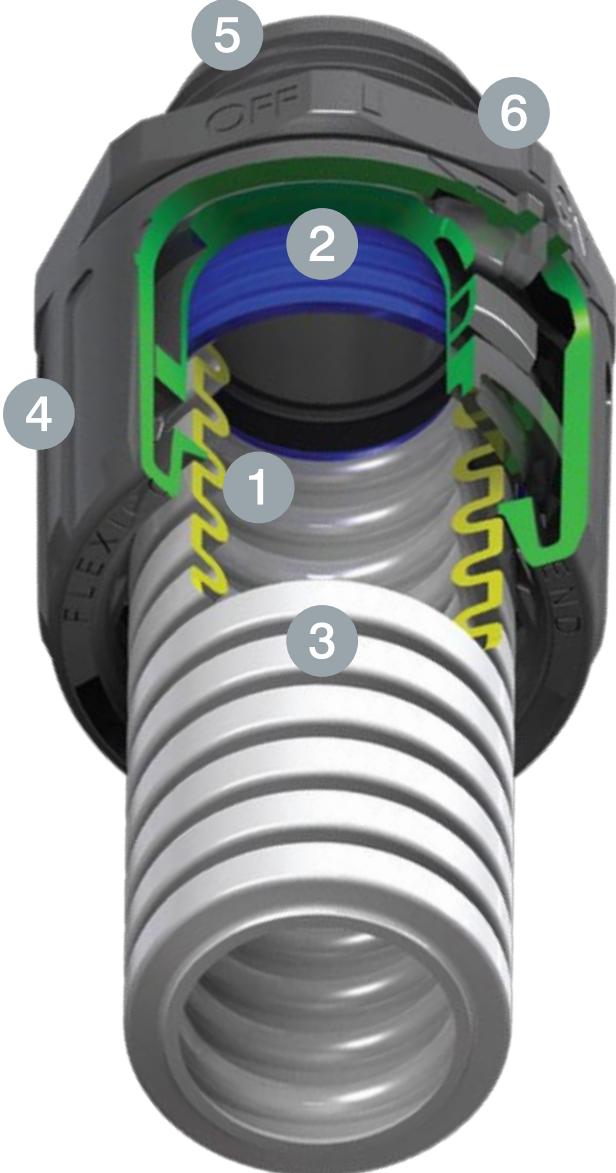


PAGE 43

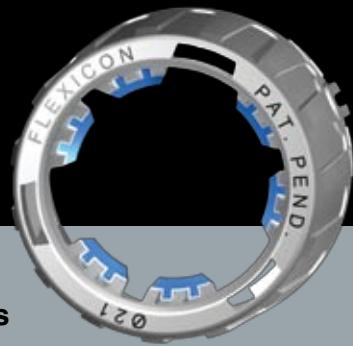
new product focus

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

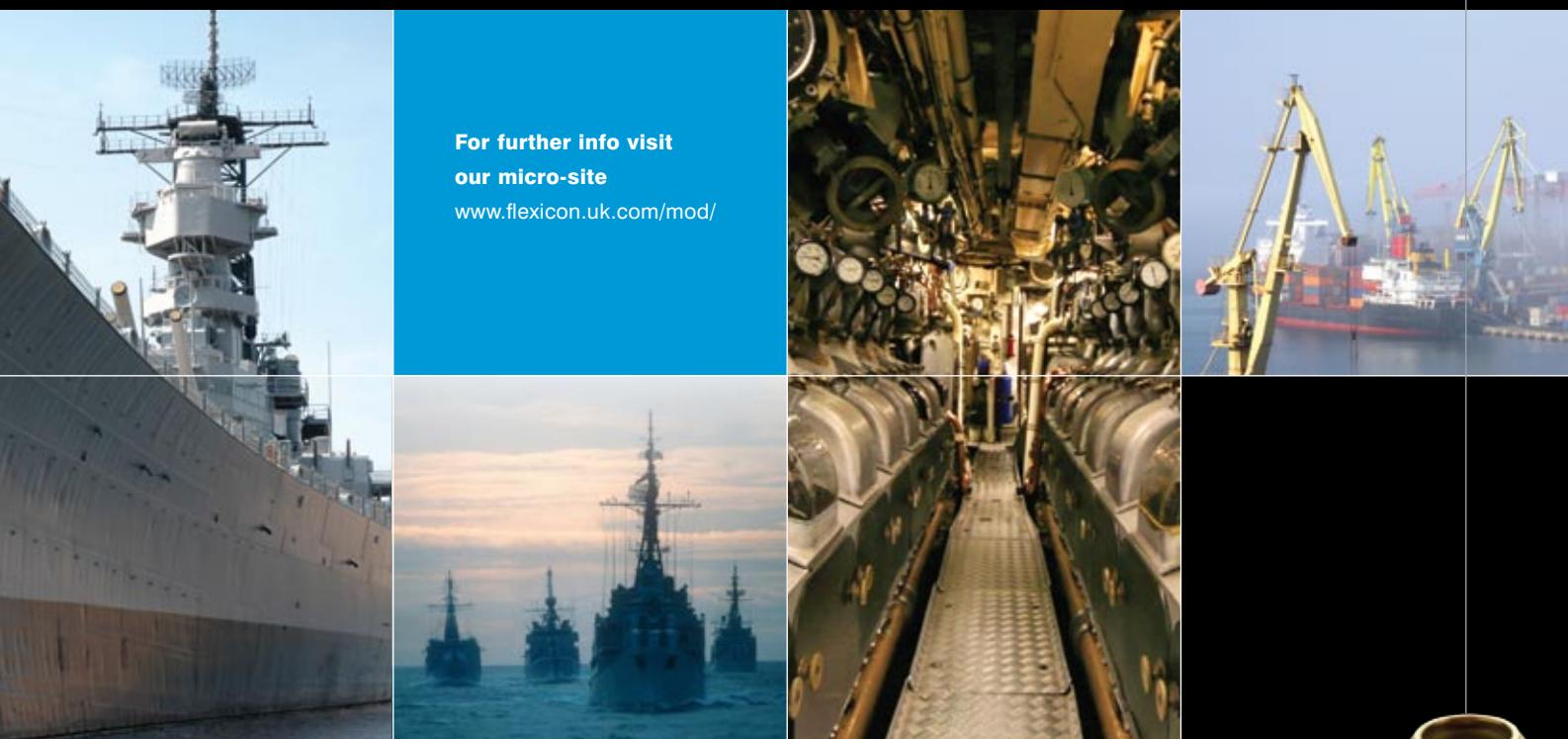
Industry Approvals



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Solutions for Defence & Marine



For further info visit
our micro-site
www.flexicon.uk.com/mod/

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

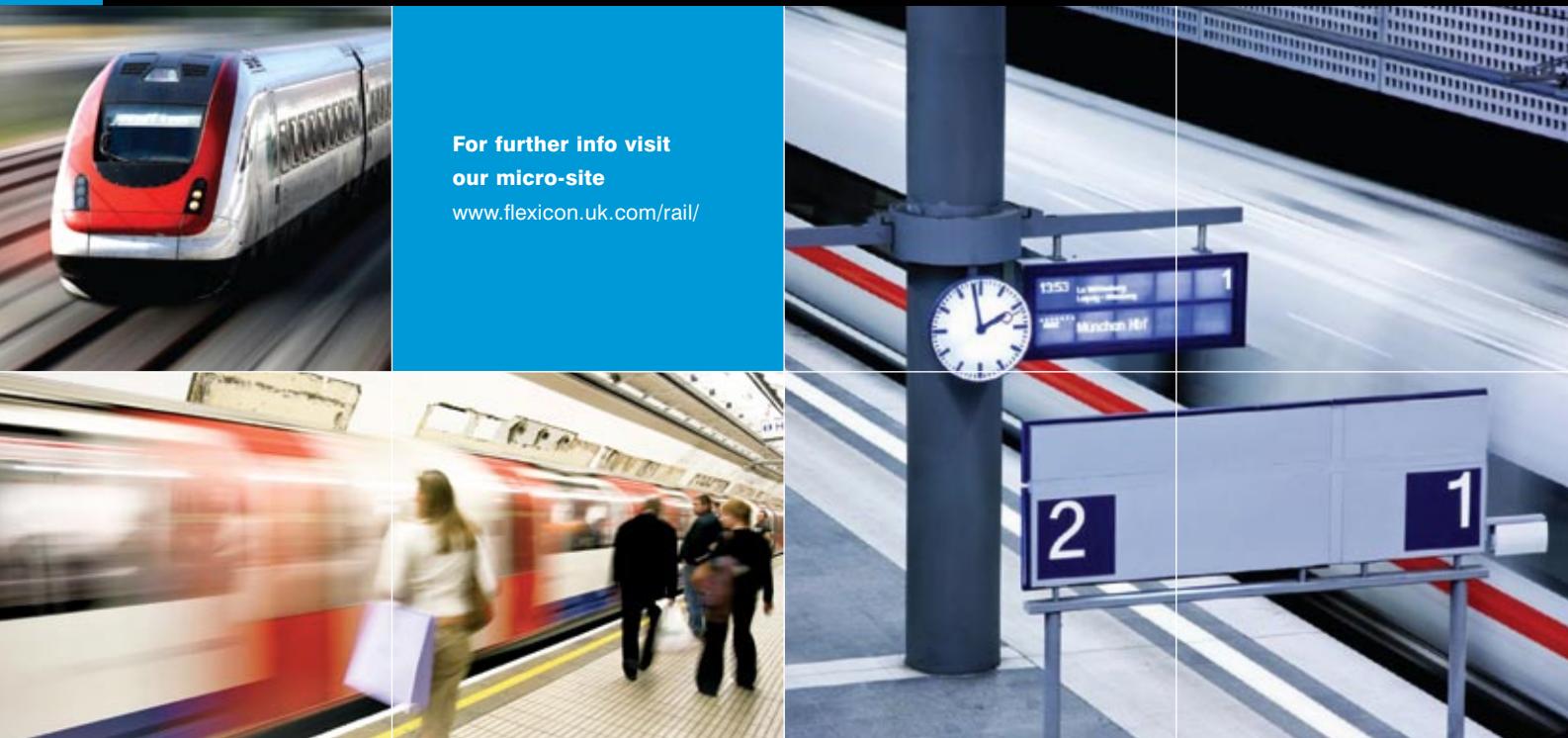
Industry Approvals



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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/

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



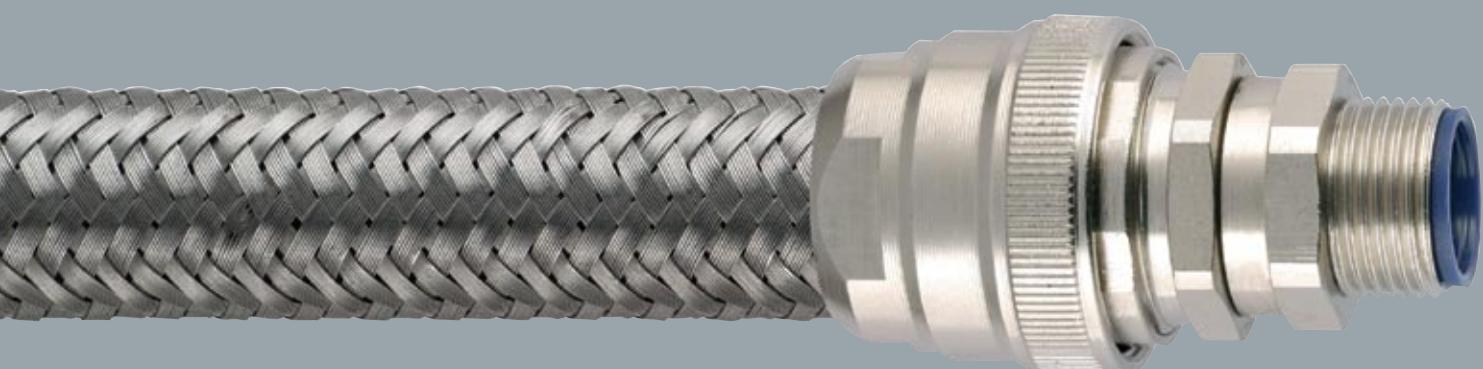
Benefits

- 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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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	FU galvanised steel		IP40	350	120	45	zinc
20	SSU stainless steel, grade 316		IP40	400	170	45	stainless steel
22	FSU galvanised steel, pvc coated		IP54, IP65	350	120	45	black, grey orange
22	FNU galvanised steel, nylon coated		IP54, IP65	350	120	45	black
24	L FHU galvanised steel, LFH coated		IP54, IP65	350	120	45	black
24	FPU galvanised steel, polyurethane coated		NEW IP54, IP65	350	120	45	black
26	LTP galv steel, pvc coated, liquid tight		IP66, IP67, IP68, IP69K	400	130	65	black, grey orange
26	LTPHC galv steel, thermoplastic rubber, liquid tight		IP66, IP67, IP68, IP69K	400	130	65	black
26	LTPUL galv steel, pvc coated, liquid tight		IP66, IP67, IP68, IP69K	500	160	90	black
26	LTPE galv steel, pvc coated, liquid tight		NEW IP66, IP67, IP68, IP69K	350	120	65	black
28	LTPSS stainless steel, pvc coated, liquid tight		IP66, IP67, IP68, IP69K	400	130	65	black
28	LTPPU galv steel, polyurethane coated, liquid tight		NEW IP66, IP67, IP68, IP69K	400	130	65	black
28	LTBRDP galv steel, braided core, pvc coated, liquid tight		NEW IP66, IP67, IP68, IP69K	400	130	65	black
28	LTBRDLFH galv steel, braided core, LFH coated, liquid tight		NEW IP66, IP67, IP68, IP69K	400	130	130	black
32	FL galvanised steel, pliable		IP40	300	30	35	zinc
32	FLP galvanised steel, pvc coated, pliable		IP66, IP67, IP68,	300	50, 100	35	black
33	LFHP galvanised steel, LFH coated, pliable		NEW IP66, IP67, IP68,	570	50, 100	40	black
34	FSB galv steel, pvc, galv steel overbraid		IP54, IP65	350	120, 300	45	zinc
34	L FHUBRD galv steel, LFH coated, SS316 overbraid		IP54, IP65	350	120, 300	45	stainless steel
36	FB galvanised steel, galv steel overbraid		IP40	350	120	45	zinc
36	FUSSB galvanised steel, SS316 overbraid		IP40	350	120	45	stainless steel
38	LTPBRD galv steel, rubber coated, SS316 overbraid		IP66, IP67, IP68, IP69K	400	350	65	stainless steel
40	FPRSS PA6 corrugated, SS316 overbraid		IP67	75	100	45	stainless steel
40	FP RTC PA6 corrugated, tinned copper overbraid		IP67	75	75	45	tin
40	FPISS PA12 corrugated, SS316 overbraid		IP67	45	100	45	stainless steel
40	FPIHSS PA12 corrugated, SS316 overbraid		IP67	60	100	45	stainless steel



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	●		●	●	●		●		FU galvanised steel
	-100°C to +400°C	●		●	●	●		●	●	SSU stainless steel, grade 316
●	-15°C to +70°C	●				●				FSU galvanised steel, pvc coated
	-40°C to +120°C	●			●	●		●		FNU galvanised steel, nylon coated
	-25°C to +90°C	●		●	●	●				LFHU galvanised steel, LFH coated
●	-40°C to +80°C	●			●	●		●		FPU galvanised steel, polyurethane coated
	-20°C to +105°C	●				●			●	LTP galv steel, pvc coated, liquid tight
	-45°C to +135°C	●			●	●			●	LTPHC galv steel, thermoplastic rubber, liquid tight
	-15°C to +75°C	●				●			●	LTPUL galv steel, pvc coated, liquid tight
	-15°C to +70°C	●				●			●	LTPE galv steel, pvc coated, liquid tight
	-20°C to +105°C	●				●			●	LTPSS stainless steel, pvc coated, liquid tight
●	-40°C to +80°C	●			●	●		●		LTPPU galv steel, polyurethane coated, liquid tight
	-20°C to +105°C	●				●	60dB		●	LTBRDP galv steel, braided core, pvc coated, liquid tight
	-25°C to +90°C	●		●	●	●	60dB			LTBRDLFH galv steel, braided core, LFH coated, liquid tight
	-40°C to +120°C		●	●	●	●	70dB			FL galvanised steel, pliable
	-15°C to +70°C		●			●	70dB		●	FLP galvanised steel, pvc coated, pliable
	-25°C to +90°C		●	●	●	●	70dB			LFHP galvanised steel, LFH coated, pliable
	-15°C to +70°C	●				●	55dB	●		FSB galv steel, pvc, galv steel overbraid
	-25°C to +90°C	●		●	●	●	49dB	●		LFHUBRD galv steel, LFH coated, SS316 overbraid
	-100°C to +300°C	●		●	●	●	55dB	●		FB galvanised steel, galv steel overbraid
	-100°C to +300°C	●		●	●	●	49dB	●		FUSSB galvanised steel, SS316 overbraid
	-45°C to +135°C	●			●	●	49dB	●	●	LTPBRD galv steel, rubber coated, SS316 overbraid
	-40°C to +120°C	●		●	●	●	49dB	●	●	FPRSS PA6 corrugated, SS316 overbraid
	-40°C to +120°C	●		●	●	●	67dB			FRTC PA6 corrugated, tinned copper overbraid
●	-50°C to +110°C	●			●	●	49dB	●	●	FPISS PA12 corrugated, SS316 overbraid
●	-50°C to +110°C	●		●	●	●	49dB	●	●	FPIHSS 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
See Pg 20, 21, 22, 23, 24 & 25				See Pg 20 & 21

Insert	Cable Gland	Clips	Locknuts
See Pg 78 & 79			



IP66 IP67 IP68 IP69K

Liquid Tight Fittings



See Pg 26 & 27

IP66 IP67 IP68 IP69K

IP40 IP66 IP67

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				

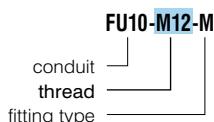
ORDERING NOTES

- 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

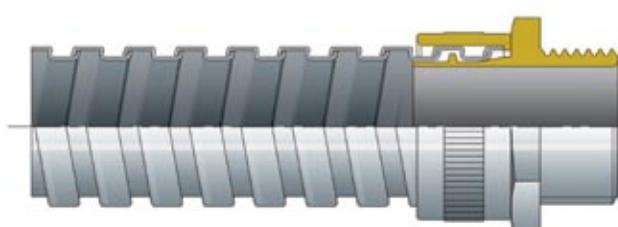
STANDARDS



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.



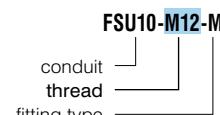
nominal size (mm)	FSU part number	reel length (m)	FNU part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	metric thread part number	PG thread part number	metric thread part number	PG thread part number	hole size (mm)	part number
10	FSU10B+	25, 50			10.0	6.8	25	FSU10-M12-M	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.



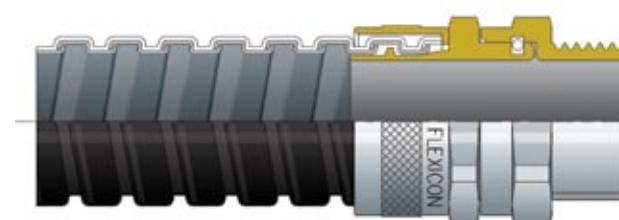
metric thread part number	metric thread part number	PG thread part number	NPT thread part number	metric thread part number	metric thread part number	part number	part number	nominal size (mm)
	FSU10-M12-C						FSU10-E	10
	FSU12-M16-C	FSU12-PG9-C		FSU12-M16-C-S	FSU12-M16-C90		FSU12-E	12
FSU16-M16-F	FSU16-M16-C	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



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)
FSU12-M16-C	FSU12-PG9-C			FSU12-M16-C-S	FSU12-M16-C90			12
FSU16-M16-F	FSU16-M16-C	FSU16-PG11-C	FSU16-050-C	FSU16-M16-C-S	FSU16-M16-C90			16
FSU16-M20-F	FSU16-M20-C	FSU16-PG13-C		FSU16-M20-C-S	FSU16-M20-C90			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			32
	FSU40-M40-C							40
	FSU50-M50-C							50
								63
								75

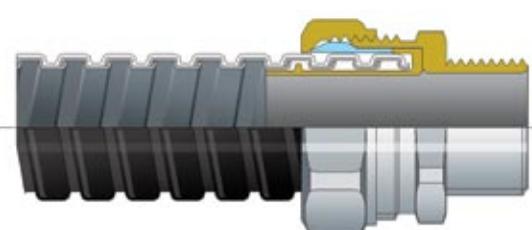
STANDARDS



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

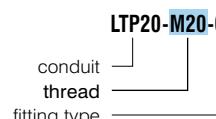
Note: Stainless steel fittings also available see page 29

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

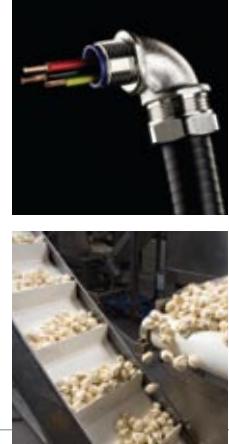
How to read the fittings code



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
C-S		C90		C45		coupler		E		FCC					
swivel external thread nickel plated brass		external thread nickel plated brass		external thread nickel plated brass		nickel plated brass		insert nickel plated brass		plated steel P clip with pvc liner stainless steel P clips					

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.

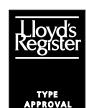
insert nickel plated brass
Single part, machined insert to cap end of conduit.

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

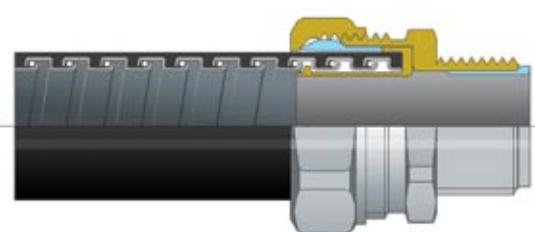
STANDARDS



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	LTBDRDP20B
25	3/4	26.4	21.0	LTPSS25	25	100		LTPPU25*	25	100	LTBDRDP25B
32	1	33.1	26.5	LTPSS32	10	135		LTPPU32*	25	135	LTBDRDP32B
40	1 1/4	41.8	35.4		LTPPU40*	10	175	LTPPU40*	10	175	LTBDRDP40B
50	1 1/2	47.9	40.4		LTPPU50*	10	230	LTPPU50*	10	230	LTBDRDP50B
63	2	59.7	51.6		LTPPU63*	10	280				

LTBDRDP

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.

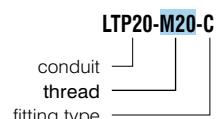


metric thread part number	PG thread part number	NPT thread part number
LTP10-M12-C		
LTP10-M16-C		
LTP12-M16-C	LTP12-PG9-C	
LTP16-M16-C	LTP16-PG11-C	
LTP16-M20-C	LTP16-PG13-C	LTP16-050-C
LTP20-M20-C	LTP20-PG16-C	LTP20-050-C
LTP25-M25-C	LTP25-PG21-C	LTP25-075-C
LTP32-M32-C	LTP32-PG29-C	LTP32-100-C
LTP40-M40-C	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



properties

- High mechanical strength
- Good flexibility
- IP rating: IP66 + IP67 + IP68 (5 bar) + IP69K
- Smooth, wipe clean outer cover
- Cover does not wrinkle when bent
- Resistant to oils and greases
- Temperature range: -20°C to +105°C (LTPSS & LTBRDP)
- -20°C to +90°C (LTBRDLFH)
- -40°C to +80°C (LTPPU)
- UV resistant and suitable for external use
- High abrasion, high fatigue life (LTPPU)
- Vibration and shock tested to EN61373 Cat 2
- Provides EMC screening (LTBRDP, LTBRDLFH)
- Compliant to LUL Std 1-085 (LTBRDLFH)



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

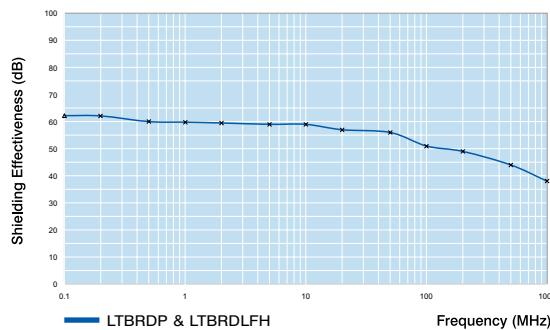
Hexagonal locknut to secure fitting.

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*

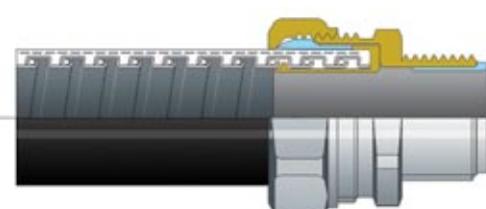
STANDARDS



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

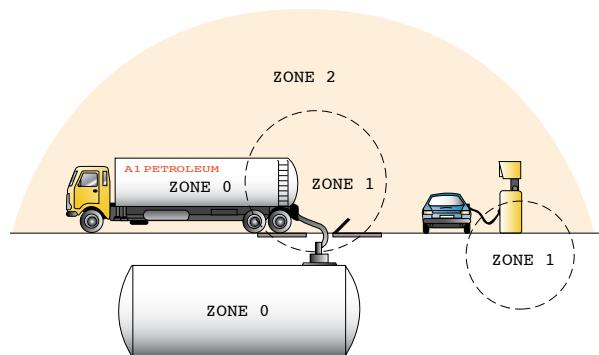
An area where an explosive gas atmosphere is not likely to exist under normal operating conditions, but if it does it will exist only for a short period of time.

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.

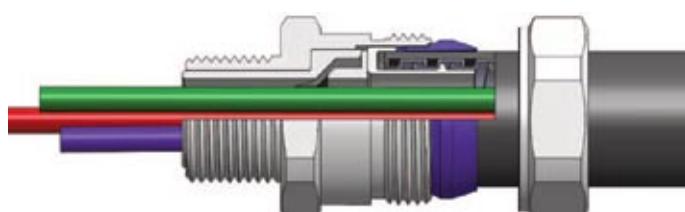


Flexicon EXD barrier glands can be used in Zone 1 and Zone 2 areas where Group A, B or C gases are present. As the gland does not add to the temperature of the enclosure, it does not have a temperature classification and so can be used with all temperature classes. Flexicon EXD barrier glands can be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

ATEX APPROVAL:	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



IECEx APPROVAL	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

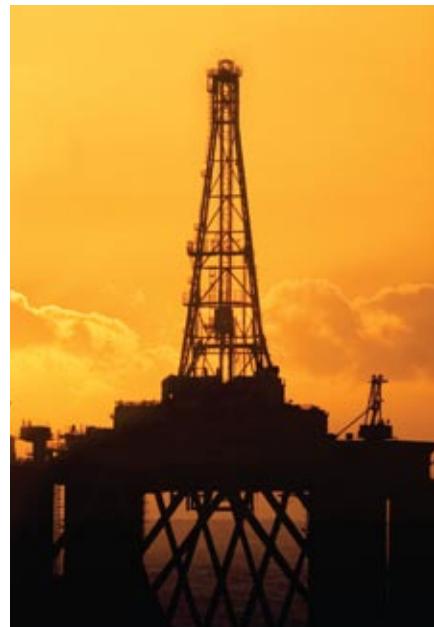


LTP - EXD

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



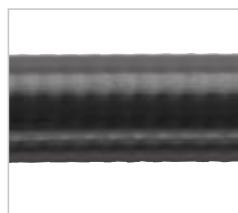
Part No.	To fit Conduit Size (mm)	Thread Size
LTP16-M20-EXD	16	M20
LTP20-M20-EXD	20	M20
LTP25-M25-EXD	25	M25
LTP32-M32-EXD	32	M32
LTP40-M40-EXD	40	M40
LTP50-M50-EXD	50	M50
LTP63-M63-EXD	63	M63

STANDARDS



BS EN IEC 61386

RoHS ✓





FL system

galvanised steel pliable

SUPER
EMC
SCREEN
★★★INHERENT
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

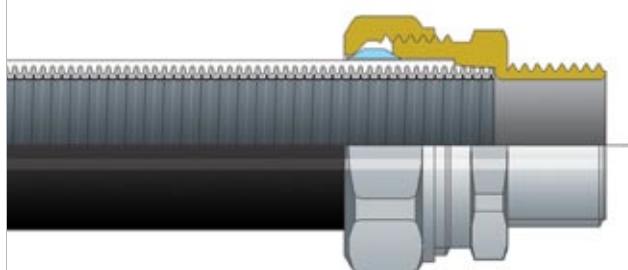
STANDARDS



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)

FLHP16B

25

40

17.8

11.6

FLHP20B

25

40

20.9

14.6

FLHP25B

25

55

27.3

20.4

FLHP32B

25

65

34.0

26.7

FLHP40B

25

85

40.4

32.8

FLHP50B

25

130

53.1

45.3

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

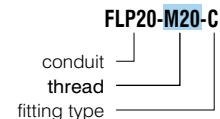
FLP50-M50-C-HS

FLP50-M50-F-HS

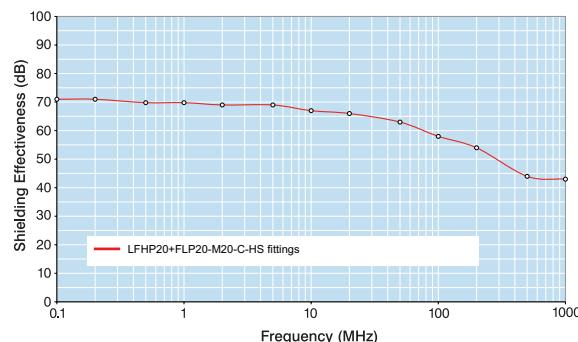
ORDERING NOTES

- 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.



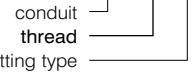
nominal size (mm)	FSB part number	LFHUBRD part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	metric thread part number	PG thread part number	metric thread part number	PG thread part number
12	FSB12		25	15.2	10.2	30	FSB12-M16-M	FSB12-PG9-M	FSB12-M16-S	FSB12-PG9-S
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

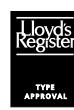
- Add reel length eg: FSB20-25M for 25m reel
- Available on request:**
 - longer lengths, cut lengths and assemblies
 - additional sizes, stainless steel overbraided
 - PG threads, female threaded fittings
 - full copies of independent test report confirming screening effectiveness

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.



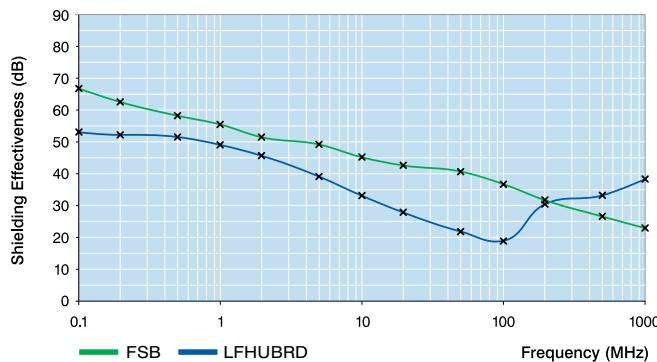
external thread elbow
nickel plated brass

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

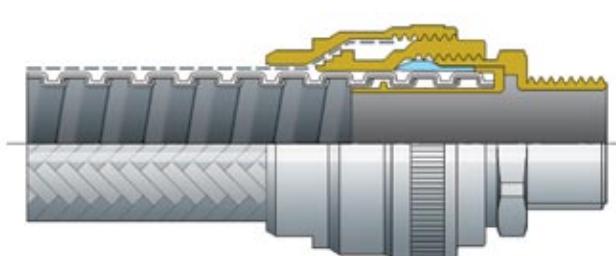


hole size (mm)	part number	metric thread part number	PG thread part number	metric thread part number	nominal size (mm)
12	FSB12-P				12
16	FSB16-P	FSB16-M16-C	FSB16-PG11-C	FSB16-M16-C-S	16
		FSB16-M20-C	FSB16-PG13-C	FSB16-M20-C-S	
20	FSB20-P	FSB20-M20-C	FSB20-PG16-C	FSB20-M20-C-S	20
25	FSB25-P	FSB25-M25-C	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.

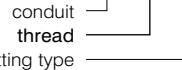


ORDERING NOTES

- 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.



nominal size (mm)

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

20

FB20-P

BM90-20M

S-M20

B-M20-EMC

FCC16

FCC16-SS

16

25

FB25-P

BM90-25M

S-M25

B-M25-EMC

FCC25

FCC25-SS

25

32

FB32-P

BM90-32M

S-M32

B-M32-EMC

FCC32

FCC32-SS

32

40

FB40-P

BM90-40M

S-M40

B-M40-EMC

FCC40

FCC40-SS

40

51

FB50-P

BM90-50M

S-M50

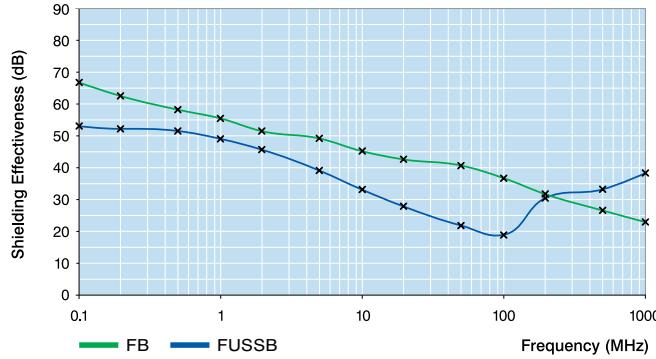
B-M50

FCC50

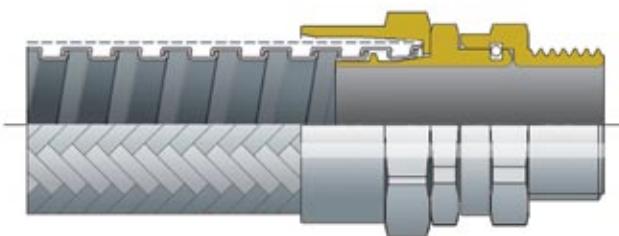
FCC50-SS*

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.



LTPBRD	nominal size (mm)	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)
16	LTPBRD16		25	19.3	12.6	45
16	LTPBRD20		25	22.6	16.0	65
20	LTPBRD25		25	27.9	21.0	100
25	LTPBRD32		25	34.6	26.5	135
32	LTPBRD40		10	43.3	35.4	175
40	LTPBRD50+		10	49.3	40.4	230

metric thread part number	metric thread part number
LTPB16-M16-C	LTPB16-M16-S
LTPB16-M20-C	LTPB16-M20-S
LTPB20-M20-C	LTPB20-M20-S
LTPB25-M25-C	LTPB25-M25-S
LTPB32-M32-C	LTPB32-M32-S
LTPB40-M40-C	LTPB40-M40-S
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

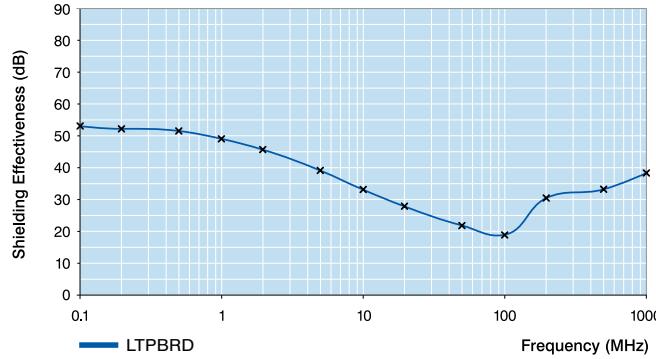
plated steel P clip with pvc liner, stainless steel P clips

P clip to support conduit.

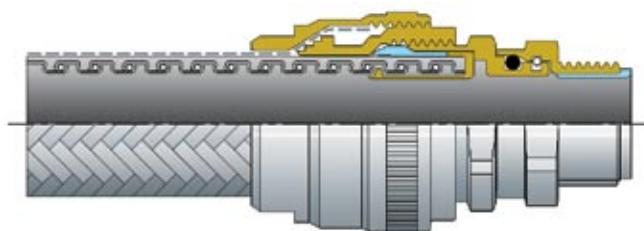


metric thread part number	part number	metric thread part number	metric thread EMC part number	metric thread brass part number	plated steel part number	stainless steel part number	nominal size (mm)
LTPB16-M16-C90	FW16	S-M16	B-M16	FCC16	FCC16-SS		16
LTPB16-M20-C90	FW20						16
LTPB20-M20-C90	FW20	S-M20	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-M40-S	

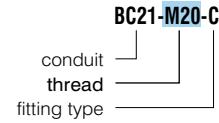
ORDERING NOTES

* 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



FPIHSS system

corrugated nylon,
stainless steel overbraid



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

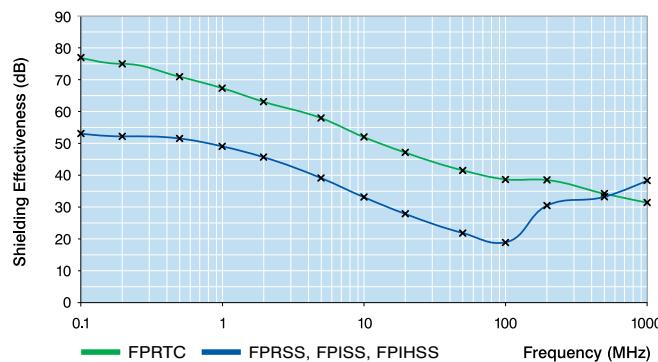


stainless steel
part number

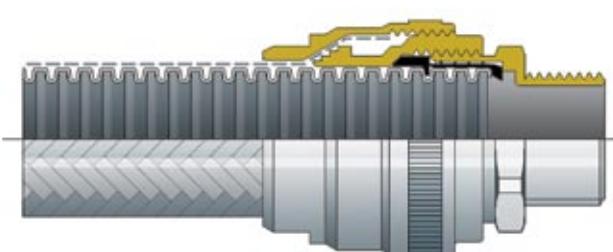
nominal size (mm)

	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 ²
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

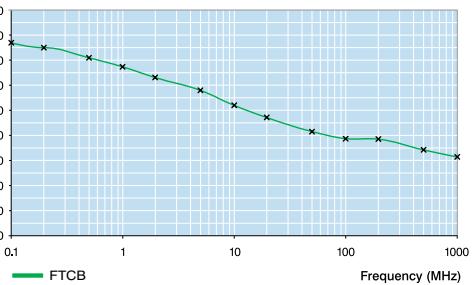
FPAX

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

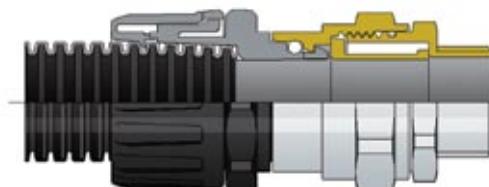


Use with Braid

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

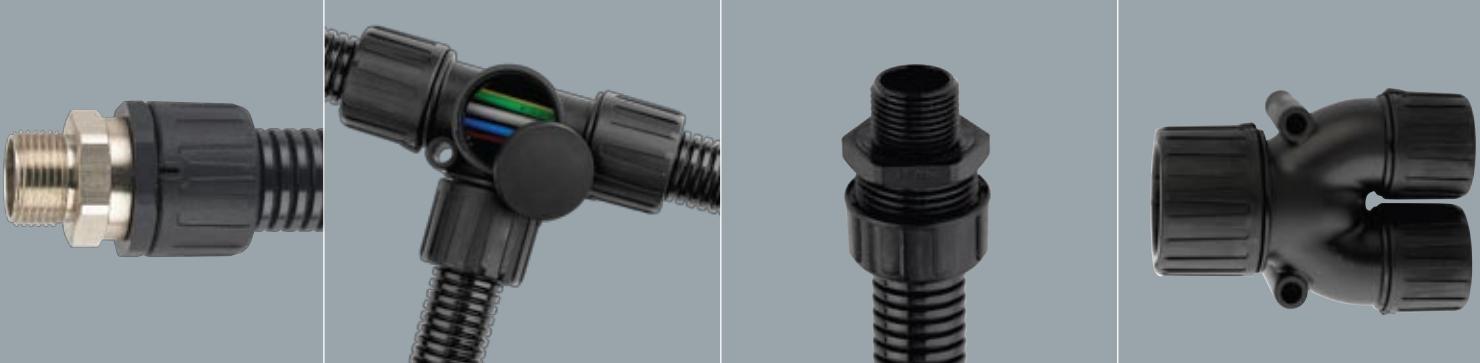
Conduit size (mm)	Part Number	Suitable for the following conduits	Conduit	Fitting	IP rating of conduit system	IP rating of cable gland	Clamping range of cable gland
20	FSU20-M20-CG	FU & SSU			IP40	IP68(10bar)+IP69K	7-13mm 9-17mm 11-21mm
25	FSU25-M25-CG						
32	FSU32-M32-CG						
20	FSU20-M20-CG	FSU, 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

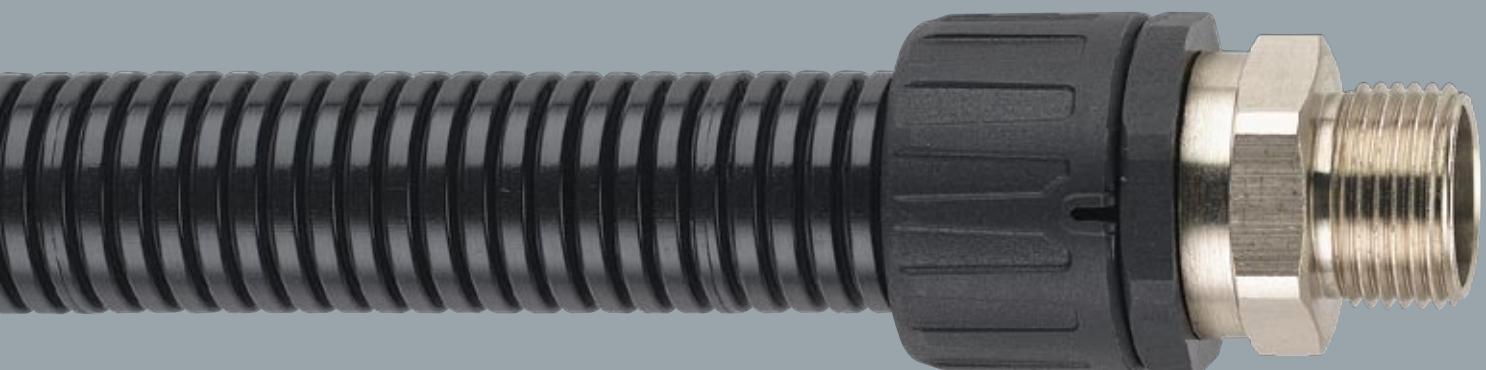
STANDARDS

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	FPAS nylon LFH PA6 corrugated, std weight	IP66, IP67, IP68, IP69K	75	40	Black Grey
50	FPAL nylon PA6 corrugated, light weight	IP66, IP67, IP68, IP69K	60	30	Black Grey
51	FPAH nylon LFH PA6 corrugated, heavy weight	IP66, IP67, IP68, IP69K	120	70	Black
51	FPR nylon extra LFH PA6 corrugated, std weight	IP66, IP67, IP68, IP69K	75	40	Black
51	FPI nylon PA12 corrugated, standard weight	IP66, IP67, IP68, IP69K	45	30	Black
51	FPIH nylon PA12 corrugated, heavy weight	IP66, IP67, IP68, IP69K	60	50	Black
52	FPY nylon PA6 corrugated, light weight	IP40, IP66, IP67, IP68	60	25	Black Grey
52	FPADS nylon PA6 double slit corrugated	IP40	60	15	Black
52&69	FPP polypropylene corrugated, std weight	IP40, IP66, IP67, IP68	35	25	Black, Grey White
52	FPP-NFR polypropylene corrugated non flame retarded	IP40, IP66, IP67, IP68	35	25	Black, Grey
52	FPPH polypropylene corrugated heavy weight	IP40, IP66, IP67, IP68	100	40	Black, Grey
72	FPCB pvc spiral reinforced black	IP65	60	25	Black
72	FPCG pvc spiral reinforced grey	IP65	60	25	Light Grey
72	FPCGN pvc spiral reinforced green oil resistant	IP65	60	25	Green
72	FPCBU pvc spiral reinforced blue high temperature	IP65	60	25	Blue
74	LPC smooth, pvc spiral reinforced	IP67, IP68, IP69K	120	70	Black Light Grey
74	LPCO smooth pvc spiral orange ultra flexible	IP67, IP68, IP69K	120	45	Orange
74	LPCGN smooth pvc spiral green oil resistant	IP67, IP68, IP69K	120	60	Green
74	LPCBU smooth pvc spiral blue high temperature	IP67, IP68, IP69K	120	60	Blue
76&69	FPL upvc corrugated	IP40, IP66, IP67	150	30	Black, Grey White
77	FPY 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	●		●	●	●	●	●	FPAS nylon LFH PA6 corrugated, std weight
●	-40°C to +120°C	●			●	●			FPAL nylon PA6 corrugated, light weight
	-40°C to +120°C	●		●	●	●	●	●	FPAH nylon LFH PA6 corrugated, heavy weight
	-40°C to +120°C	●		●	●	●	●	●	FPR nylon extra LFH PA6 corrugated, std weight
●	-50°C to +110°C	●		●	●	●		●	FPI nylon PA12 corrugated, standard weight
●	-50°C to +110°C	●		●	●	●		●	FPIH nylon PA12 corrugated, heavy weight
●	-40°C to +100°C	●			●	●			FPY nylon PA6 corrugated, light weight
	-40°C to +110°C		●		●	●	●		FPADS nylon PA6 double slit corrugated
	-20°C to +90°C	●				●			FPP polypropylene corrugated, std weight
	-20°C to +90°C	●			●				FPP-NFR polypropylene corrugated non flame retarded
	-20°C to +90°C	●				●			FPPH polypropylene corrugated heavy weight
	-5°C to +70°C	●				●		●	FPCB pvc spiral reinforced black
	-20°C to +70°C	●				●			FPCG pvc spiral reinforced grey
	-20°C to +70°C	●				●			FPCGN pvc spiral reinforced green oil resistant
	-20°C to +90°C	●				●			FPCBU pvc spiral reinforced blue high temperature
	-5°C to +70°C	●				●		●	LPC smooth, pvc spiral reinforced
	-5°C to +70°C	●				●			LPCO smooth pvc spiral orange ultra flexible
	-5°C to +70°C	●				●			LPCGN smooth pvc spiral green oil resistant
	-20°C to +90°C	●				●			LPCBU smooth pvc spiral blue high temperature
	-5°C to +70°C		●			●		●	FPL upvc corrugated
	-40°C to +120°C	●			●	●		●	FPY 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
<p>See Pg 78 & 79</p>		



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)	FPAL part number	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										
25 C	FPAS25	50	25.0	19.1	50	FPAL25	50	25.0	19.3	45
22 25.4 F										
23 28 F	FPAS28	25, 50	28.5	22.8	50	FPAL28	50	28.5	23.0	45
28 C	FPAS28C*	50	28.5	21.6	50					
29 34 C	FPAS34	25, 50	34.5	28.1	60	FPAL34	25, 50	34.5	28.3	55
29 34 F	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

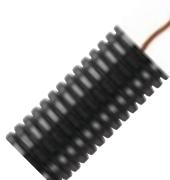
NOTE: Other reel lengths are available upon request

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



FPAH	FPR	FPI	FPIH
Construction: Heavy weight, flame retardant, nylon (PA6) corrugated flexible conduit. Colour black. Typical Applications: All types of machinery and public buildings where high mechanical strength required.	Construction: Standard weight nylon (highly flame retardant PA6) corrugated flexible conduit. Colour black. Typical Applications: Railways, underground and public buildings.	Construction: Standard weight nylon (PA12) corrugated flexible conduit. Colour black. Typical Applications: Robots and continual flexing.	Construction: Heavy weight nylon (PA12) corrugated flexible conduit. Colour black. Typical Applications: Robots and continual flexing where higher mechanical strength required.
<ul style="list-style-type: none"> High mechanical strength High impact resistance Temperature range -40°C to +120°C UL recognised Low Fire Hazard (LFH), see page 94 UL 94 V2 flame retardancy Halogen, sulphur and phosphorus free UV resistant Abrasion resistant Highly resistant to solvents and oils 	<ul style="list-style-type: none"> 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 Lloyd's Register Type Approval Extra Low Fire Hazard (LFH) Compliant to LUL Std 1-085 UL 94 V0 flame retardancy Halogen, sulphur and phosphorus free UV resistant Abrasion resistant Highly resistant to solvents and oils 	<ul style="list-style-type: none"> Highly flexible Exceptional fatigue life High impact resistance even at very low temperatures UV resistant Displays self recovery if crushed Temperature range -50°C to +110°C UL recognised Highly resistant to solvents and oils Self extinguishing Low fire hazard Halogen, sulphur and phosphorus free 	<ul style="list-style-type: none"> Highly flexible and high fatigue life High mechanical strength High impact resistance even at very low temperatures UV resistant Displays self recovery if crushed Temperature range -50°C to +110°C UL recognised Highly resistant to solvents and oils Self extinguishing Low fire hazard Halogen, sulphur and phosphorus free

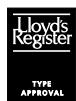


nominal size (NW) pitch	FPAH	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	FPR	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	FPI	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	FPIH	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							FPR20		50	20.0	14.8	45													
17 21 F							FPR21		50	21.2	16.7	45	FPI21		50	21.2	16.7	35	FPIH21		50	21.2	15.0	45	
21 C	FPAH21		50	21.2	15.5	55																			
25 C							FPR25		50	25.0	19.1	50													
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.



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	FCL28
22 25.4 F		FPY25		50	25.4	21.4	45							FPP34		50	34.5	28.1	65	FCL34
23 28 F		FPY28		50	28.5	23.0	45	FPADS28		50	28.5	20.5	170	FPP42		25	42.5	35.5	80	FCL42
28 C														FPP54		25	54.5	47.2	100	FCL54
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)	Fpas	FPAL	FPAH	FPR	FPI	FPIH	FPY	FPADS	FPP
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	FPA10-M12	FPA10-PG7					FPA10-M12-90	FPA10-PG7-90	
7	10		FPA10-M16	FPA10-PG9							
8	11	11.5	FPA11-M12	FPA11-PG7					FPA11-M12-90		
10	13	13.0	FPA13-M12	FPA13-PG7					FPA13-M16-90	FPA13-PG9-90	
10	13		FPA13-M16	FPA13-PG9							
10	13		FPA13-M20	FPA13-PG11							
12	16	15.8	FPA16-M16	FPA16-PG9	FPA16-038	FPA16-BU075	($\frac{3}{4}$ "")	FPA16-FL	FPA16-M16-90	FPA16-PG9-90	FPA16-050-90
12	16		FPA16-M20	FPA16-PG11	FPA16-050	FPA16-BU100	(1")		FPA16-M20-90	FPA16-PG11-90	
12	16			FPA16-PG13		FPA16-BU119	($1\frac{3}{16}$ ")			FPA16-PG13-90	
12	16	16.1		FPA16-PG16							
14	18	18.5	FPA18-M20	FPA18-PG13					FPA18-M20-90	FPA18-PG13-90	
14	18			FPA18-PG16						FPA18-PG16-90	
	20	20.0	FPA20-M20						FPA20-M20-90		
17	21	21.2	FPA21-M20	FPA21-PG13	FPA21-050	FPA21-BU100	(1")	FPA21-FL	FPA21-M20-90	FPA21-PG13-90	FPA21-050-90
	21			FPA21-PG16		FPA21-BU119	($1\frac{3}{16}$ ")			FPA21-PG16-90	
	21					FPA21-BU138	($1\frac{3}{8}$ ")				
	25	25.0	FPA25-M25						FPA25-M25-90		
22	25.4	25.4									
23	28	28.5	FPA28-M25	FPA28-PG21	FPA28-075	FPA28-BU144	($1\frac{7}{16}$ ")	FPA28-FL	FPA28-M25-90	FPA28-PG21-90	FPA28-075-90
	28		FPA28-M32	FPA28-PG29		FPA28-BU175	($1\frac{3}{4}$ ")				
29	34	34.5	FPA34-M32	FPA34-PG29	FPA34-100	FPA34-BU175	($1\frac{3}{4}$ ")	FPA34-FL	FPA34-M32-90	FPA34-PG29-90	FPA34-100-90
29	34		FPA34-M40								
36	42	42.5	FPA42-M40	FPA42-PG36	FPA42-125	FPA42-BU200	(2")	FPA42-FL	FPA42-M40-90	FPA42-PG36-90	FPA42-125-90
36	42		FPA42-M50		FPA42-150	FPA42-BU225	($2\frac{1}{4}$ ")		FPA42-M50-90		FPA42-150-90
48	54	54.5	FPA54-M50	FPA54-PG42	FPA54-150	FPA54-BU200	(2")		FPA54-M50-90	FPA54-PG48-90	FPA54-150-90
48	54		FPA54-M63	FPA54-PG48	FPA54-200	FPA54-BU225	($2\frac{1}{4}$ ")		FPA54-M63-90		FPA54-200-90
56	67	67.0	FPA67-M63	FPA67-PG48	FPA67-200				FPA67-M63-90	FPA67-PG48-90	FPA67-200-90

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)

IP66

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.

IP66

FPA90

flange

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

IP66

FPA45

45° elbow external thread

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

IP66

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	($\frac{13}{8}$ ")					FPA21-BU138-45	($\frac{13}{8}$)	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.



NPB Ext Metric

NPB Ext PG

NPB Int Metric

NPB Int PG

NPB Ext Metric

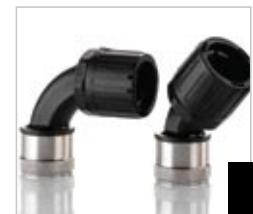
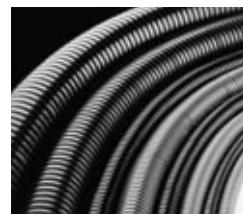
NPB Ext PG

						nominal size (mm)	0D mm	european (NW) sizes
						10	10.0	7
						10		7
						11	11.5	8
FPA13-BM16	FPA13-BPG9	FPA13-BFM16	FPA13-BFPG9		FPA13-BM16-90	FPA13-BPG9-90	13	13.0 10
						13		10
						13		10
FPA16-BM16	FPA16-BPG9	FPA16-BFM16	FPA16-BFPG11		FPA16-BM16-90	FPA16-BPG9-90	16	15.8 12
FPA16-BM20	FPA16-BPG11	FPA16-BFM20	FPA16-BFPG16		FPA16-BM20-90	FPA16-BPG11-90	16	12
						16	16.1	12
						16	16.1	12
						18	18.5	14
						18		14
FPA21-BM20	FPA21-BPG13	FPA21-BFM20	FPA21-BFPG16		FPA21-BM20-90	FPA21-BPG13-90	20	20.0
	FPA21-BPG16					FPA21-BPG16-90	21	21.2 17
						21		17
						21		17
						25	25.0	
FPA28-BM25	FPA28-BPG21	FPA28-BFM25	FPA28-BFPG21		FPA28-BM25-90	FPA28-BPG21-90	25.4	25.4 22
						28	28.5	23
						28		23
FPA34-BM32	FPA34-BPG29	FPA34-BFM32	FPA34-BFPG29		FPA34-BM32-90	FPA34-BPG29-90	34	34.5 29
						34		29
FPA42-BM40		FPA42-BFM40			FPA42-BM50-90		42	42.5 36
FPA42-BM50						42		36
FPA54-BM50		FPA54-BFM50			FPA54-BM50-90		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-BPGL9-45
29	34					
36	42	42.5	FPA42-BFM50-90		FPA42-BM50-45	FPA42-BFPG50-45
36	42					
48	54	54.5	FPA54-BFM50-90		FPA54-BM50-45	FPA54-BFPG50-45
48	54					
56	67	67.0				

ORDERING NOTES

- * Indicates parts made to order on request

- NPB = Nickel Plated Brass

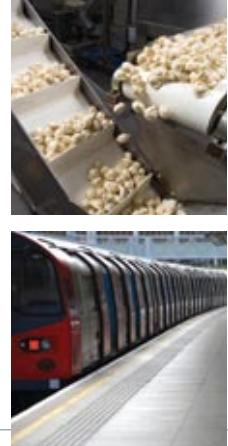
- Available on request:

- 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



IP66

FPA

NEW

cable gland

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



NPB Metric

NPB PG

IP66

FPA90

NEW

cable gland

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



NPB Metric

IP66

FPA45

NEW

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)
0D mm
european (NW) sizes

NPB Metric	NPB PG	NPB Metric	NPB Metric	10	10.0	7
				10	10.0	7
				10	10.0	7
FPA13-BM16-CG		FPA13-BM16-CG-90		11	11.5	8
				13	13.0	10
				13	13.0	10
				13	13.0	10
FPA16-BM16-CG	FPA16-BPG11-CG*	FPA16-BM16-CG-90	FPA16-BM20-CG-45	16	15.8	12
FPA16-BM20-CG	FPA16-BPG16-CG*	FPA16-BM20-CG-90		16	16.0	12
				16	16.1	12
				16	16.1	12
				18	18.5	14
				18	18.5	14
				20	20.0	
FPA21-BM20-CG	FPA21-BPG16-CG*	FPA21-BM20-CG-90	FPA21-BM20-CG-45	21	21.2	17
				21	21.2	17
				21	21.2	17
				25	25.0	
				25.4	25.4	22
FPA28-BM25-CG	FPA28-BPG21-CG*	FPA28-BM25-CG-90	FPA28-BM25-CG-45	28	28.5	23
				28	28.5	23
				34	34.5	29
FPA34-BM32-CG	FPA34-BPG29-CG*	FPA34-BM32-CG-90	FPA34-BM32-CG-45	34	34.5	29
				34	34.5	29
FPA42-BM40-CG		FPA42-BM40-CG-90	FPA42-BM40-CG-45	42	42.5	36
				42	42.5	36
FPA54-BM50-CG*		FPA54-BM50-CG-90	FPA54-BM50-CG-45	54	54.5	48
				54	54.5	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	($1\frac{7}{16}$ ")	FPAX28-FL
23 28		FPAX28-M32	FPAX28-PG29		FPAX28-BU175	($1\frac{3}{4}$ ")	
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	(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 1/16")		16		12
						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 1/16")		21		17
			FPAX21-BU138-90	(1 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 1/16")	FPAX28-FL-90	28	28.5	23
			FPAX28-BU175-90	(1 1/4")		28		23
FPAX34-M32-90	FPAX34-PG29-90	FPAX34-100-90	FPAX34-BU175-90	(1 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 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 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-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

FPAX13-BPG9-90

FPAX16-BM16

FPAX16-BPG9

NPB Int Metric

NPB Int PG

FPAX16-BM16-90

NPB Ext PG

FPAX16-BPG9-90

FPAX16-BM20

FPAX16-BPG11

NPB Int Metric

NPB Int PG

FPAX16-BM20-90

NPB Ext PG

FPAX16-BPG11-90

FPAX21-BM20

FPAX21-BPG13

NPB Int Metric

NPB Int PG

FPAX21-BM20-90

NPB Ext PG

FPAX21-BPG13-90

FPAX21-BPG16

FPAX28-BM25

FPAX28-BPG21

NPB Int Metric

NPB Int PG

FPAX28-BM25-90

NPB Ext PG

FPAX28-BPG21-90

FPAX34-BM32

FPAX34-BPG29

NPB Int Metric

NPB Int PG

FPAX34-BM32-90

NPB Ext PG

FPAX34-BPG29-90

FPAX42-BM40

NPB Int Metric

NPB Int PG

FPAX42-BM40-90

NPB Ext PG

FPAX42-BM40-90

FPAX42-BM50

NPB Int Metric

NPB Int PG

FPAX42-BM50-90

NPB Ext PG

FPAX42-BM50-90

FPAX54-BM50

NPB Int Metric

NPB Int PG

FPAX54-BM50-90

NPB Ext PG

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-BPG11-CG*

FPAX16-BM16-CG-90

FPAX16-BM20-CG-45

FPAX16-BM20-CG

FPAX16-BPG16-CG*

FPAX16-BM20-CG-90

FPAX21-BM20-CG

FPAX21-BPG16-CG*

FPAX21-BM20-CG-90

FPAX21-BM20-CG-45

FPAX28-BM25-CG

FPAX28-BPG21-CG*

FPAX28-BM25-CG-90

FPAX28-BM25-CG-45

FPAX34-BM32-CG

FPAX34-BPG29-CG*

FPAX34-BM32-CG-90

FPAX34-BM32-CG-45

FPAX42-BM40-CG

FPAX42-BM40-CG-90

FPAX42-BM40-CG-45

FPAX54-BM50-CG*

FPAX54-BM50-CG-90*

FPAX54-BM50-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

STANDARDS

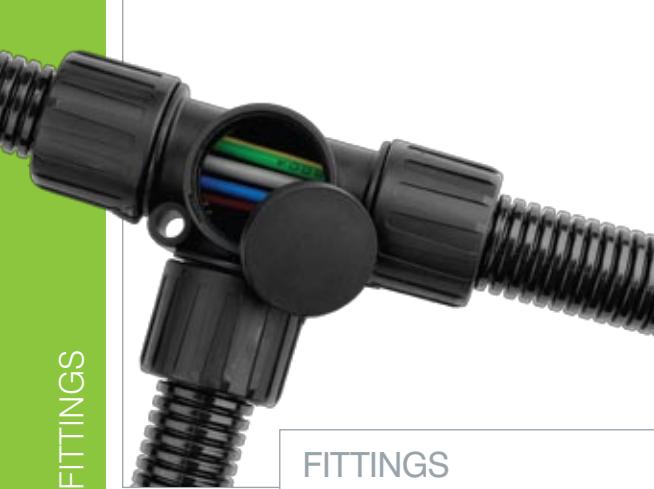


BS EN IEC 61386



TECHNICAL DRAWING





FITTINGS

IP66

FPA

T piece with inspection lid

Fast fit T piece with inspection lid.

STANDARD
LOW FIRE
HAZARD *

IP66

IP67

IP68

IP69K

IP66

FPA

NEW

Divider

Fast fit reducing divider

IP66

Reducer/
Stop PlugFitting to reduce or blank
off any outlets.

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



12 16 13 FPA16T

FPA16-13-13

FPA13-R16
SP-R16

FPA20T

FPA21-16-16

FPA16-R21
FPA13-R21
SP-R21

17 21 16 FPA21T

FPA28-21-21

FPA25-R28
FPA21-R28
FPA20-R28
FPA16-R28
FPA13-R28
SP-R28

FPA28T

FPA34-28-28

FPA28-R34
FPA21-R34
FPA16-R34
SP-R34
FPA34-R42
FPA28-R42
FPA21-R42

FPA34T

FPA42T

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

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

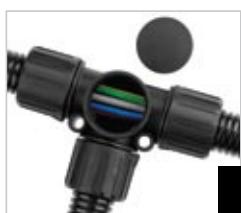
FPAX34-R42
FPAX28-R42
FPAX21-R42



STANDARDS



BS EN IEC 61386





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	20.0	FPP20W-50M	FPL20W-100M
25	25.0	FPP25W-50M	FPL25W-50M
34	34.5	FPP34W-50M	

Ext Metric

Ext Metric

FLK20-M20W

FLK20-M20-90W

FLK20-FLK20W

FCL20W

FCL20W-P

FLK25-M25W

FLK25-M25-90W

FLK25-FLK25W

FCL25W

FCL25W-P

FLK34-M32W

PVC - Contractor pack white

NEW

FPL-CP20W M20 thread

FPL-CP25W M25 thread



- 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

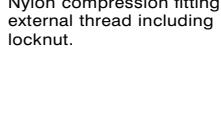
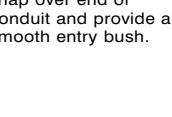
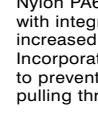
MSL moulded in nylon or PP hinged fitting black and grey RAL7031.

Pull off strength 10kg with FPP21.



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



<p>MSL</p> <p>straight hinged fitting external thread</p> <p>Nylon and PP hinged, snap on fittings including locknuts.</p> 	<p>IP40</p>
<p>MPC</p> <p>straight nylon external thread</p> <p>Nylon compression fitting, external thread including locknut.</p> 	<p>IP65</p>
<p>EC</p> <p>end cap</p> <p>Nylon PA66 end cap to snap over end of conduit and provide a smooth entry bush.</p> 	
<p>FCL</p> <p>nylon conduit clip with integral lid</p> <p>Nylon PA66 conduit clip with integral lid for increased security. Incorporates internal ribs to prevent conduit from pulling through.</p> 	

Ext Metric (Nylon)



Ext Metric (PP)



Ext Metrics



End Cap



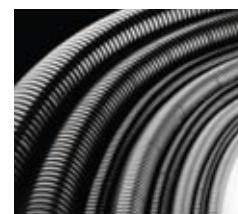
Conduit Clip

Ext Metric (Nylon)	Ext Metric (PP)	Ext Metric	End Cap	Conduit Clip	nominal size (mm)	OD mm	european (NW) size
			FCL10	10	10.0	10	7
				10	10.0	10	7
		MPC-12-M16	FCL13	11	11.5	11.5	8
				13	13.0	13.0	10
				13	13.0	13.0	10
		EC16B	FCL16	16	15.8	15.8	12
				16	15.8	15.8	12
		MPC-16-M16	FCL16	16	16.1	16.1	12
				18	18.5	18.5	14
				18	18.5	18.5	14
			FCL20	20	20.0	20.0	16
MSL-21-M20	MSL-21-M20-PP	MPC-20-M20	EC21B	FCL21	21	21.2	21.2
				21	21.2	21.2	17
				21	21.2	21.2	17
			FCL25	25	25.0	25.0	20
MSL-26-M25	MSL-26-M25-PP	MPC-25-M25		FCL25	25.4	25.4	22
				EC28B	FCL28	28	28.5
					28	28.5	23
		MPC-32-M32	EC34B	FCL34	34	34.5	34.5
					34	34.5	29
			EC42B	FCL42	42	42.5	42.5
					42	42.5	36
			EC54B	FCL54	54	54.5	54.5
					54	54.5	48
					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

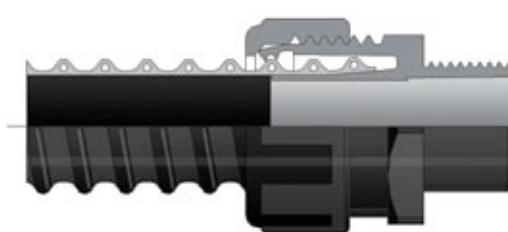


BS EN IEC 61386



* 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.

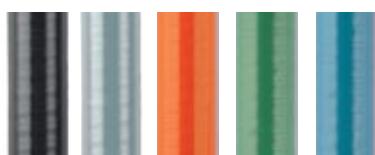
Typical Applications: As LPC but where high flexibility is required.

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	C	C-S	C90	CSS	C90-SS
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).	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.	external thread NPB Multipart compression fitting including elastomeric seal. The external thread swivels about the main body even after tightening.	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.



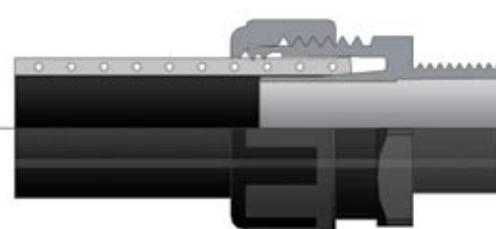
metric thread part number	metric thread part number	PG thread part number	metric thread part number	nominal size (mm)			
	LPC12-M16-C			LPC12-M16-C90			12
MPC45-16-M20	LPC16-M16-C	LPC16-PG11-C	LPC16-M16-S	LPC16-M16-C90	LPC16-M16-CSS	LPC16-M20-CSS90	16
	LPC16-M20-C	LPC16-PG13-C	LPC16-M20-S	LPC16-M20-C90	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

BS EN IEC 61386



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)
FPL	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
MP-16-M16	MP-16-M20	MP-20-M20	MP-25-M25
MP-16-M20	MP-16-M20	MP-20-M20	MP-25-M25
MP-20-M20	MP-20-M20	MP-20-M20	MP-25-M25
MP-25-M25	MP-25-M25	MP-25-M25	MP-32-M32
MP-32-M32	MP-32-M32	MP-32-M32	MP-32-M32

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

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

90° elbow

internal and external threaded nickel plated brass 90° elbow



threads

part number

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

couplers

nickel plated brass internally threaded



thread

metric thread part number

M16	B-M16-C
M20	B-M20-C
M25	B-M25-C
M32	B-M32-C
M40	B-M40-C
M50	B-M50-C
M63	B-M63-C
M75	B-M75-C

* 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
---------------------------	---------------------------	-----------------------	-----------------------

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

earthing washers

shake proof washer earth tag washer



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

SPW16	
SPW20	ET-M20
SPW25	ET-M25
SPW32	

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	FCC10	FCC10-SS*
12	FCC12	FCC12-SS*
16	FCC16	FCC16-SS
20	FCC20	FCC20-SS
25	FCC25	FCC25-SS
32	FCC32	FCC32-SS
40	FCC40	FCC40-SS
50	FCC50	FCC50-SS*
63	FCC63	
75	FCC75	

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

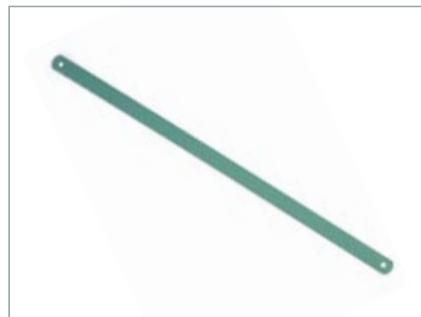


Part Number

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

for conduit

ST16 **FPYS16 + FPYS12**

ST20 **FPYS20**

ST25 **FPYS25**

ST32 **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

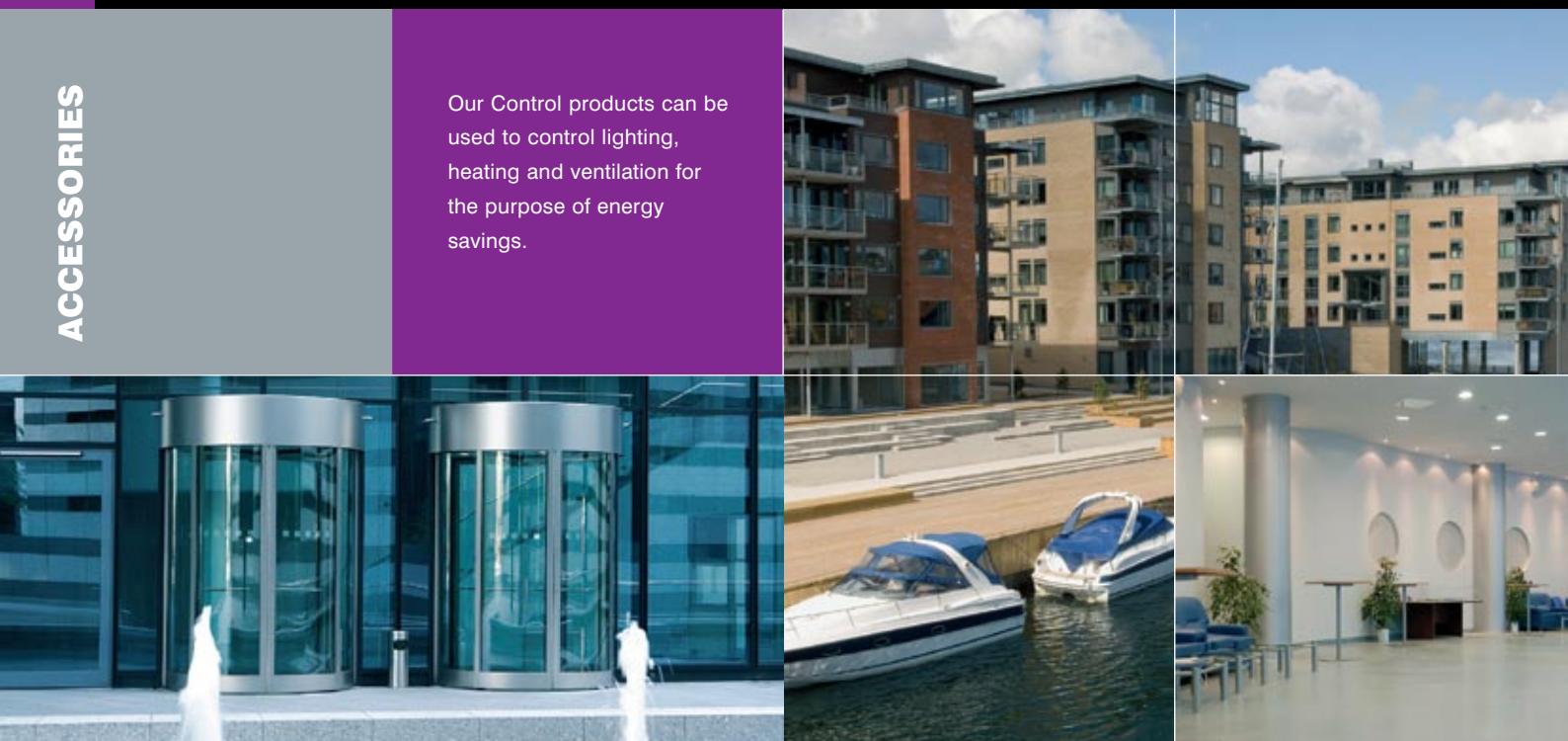


DON'T FORGET

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
FTS40	Single Pole Changeover
FTS41	Single Pole Changeover c/w Neon
FTS42	Double Pole Changeover
FTS43	Double Pole Changeover c/w Neon
FTS163	Weatherproof Shroud

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
FTE2PBE	Single pole timer - ECO
FTE2PBP	Single pole timer - Premier

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
FTE2PBW	Single pole timer - Waterproof

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	FU galvanised steel		✓ ✓ ✓ X ✓ X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X X X																			
20	SSU stainless steel, grade 316		✓ ✓ ✓ ✓ ✓ X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X X X																			
22	FSU galvanised steel, pvc coated		X X X L X X X X X ✓ ✓ L L X X X X L L ✓ X																			
22	FNU galvanised steel, nylon coated		✓ ✓ ✓ L ✓ X L ✓ X ✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X X																			
24	LFHU galvanised steel, LFH coated		L L L ✓ X X X X X ✓ ✓ X X ✓ X X X ✓ X X X																			
24	FPU galvanised steel, polyurethane coated		✓ ✓ ✓ X L L L L X ✓ ✓ X ✓ L ✓ L X ✓ L X ✓ X X X																			
26	LTP 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	LTPHC galv steel, thermoplastic rubber, liquid tight		✓ L L ✓ ✓ X X L L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ L ✓ X ✓ ✓																			
26	LTPUL galv steel, pvc coated, liquid tight		✓ ✓ ✓ ✓ X X X L X ✓ ✓ L ✓ L X L L L L L L X																			
26	LTPE galv steel, pvc coated, liquid tight		✓ ✓ ✓ ✓ X X X L X ✓ ✓ L ✓ L ✓ L X L L L L L L X																			
28	LTPSS stainless steel, pvc coated, liquid tight		✓ ✓ ✓ ✓ X X X L X ✓ ✓ L ✓ L X L L L L L L X																			
28	LTPPU galv steel, polyurethane coated, liquid tight		✓ ✓ ✓ X L L L L X ✓ ✓ X ✓ L ✓ L X ✓ L X ✓ X X X																			
28	LTBRDP galv steel, braided core, pvc coated, liquid tight		✓ ✓ ✓ ✓ X X X L X ✓ ✓ L ✓ L X L L L L L L X																			
28	LTBRDLFH 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	FL galvanised steel, pliable		✓ ✓ ✓ X ✓ X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X X X																			
32	FLP galvanised steel, pvc coated, pliable		X X X L X X X L X ✓ ✓ L L L X L L L L L L ✓ L																			
32	LFHP galvanised steel, LFH coated, pliable		L L L ✓ X X X X X ✓ ✓ X X ✓ X X X ✓ X X X																			
34	FSB 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	LFHUBRD galv steel, LFH coated, SS316 overbraid		L L L ✓ X X X X X ✓ ✓ X X ✓ X X X ✓ X X X																			
36	FB galvanised steel, galv steel overbraid		✓ ✓ ✓ X ✓ X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X X X																			
36	FUSSB galvanised steel, SS316 overbraid		✓ ✓ ✓ X ✓ X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X X X																			
38	LTPBRD galv steel, rubber coated, SS316 overbraid		✓ L L ✓ ✓ X X L L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ L ✓ X ✓ ✓																			
40	FPRSS PA6 corrugated, SS316 overbraid		✓ ✓ ✓ L ✓ X ✓ ✓ ✓ X ✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X X X																			
40	FRTC PA6 corrugated, tinned copper overbraid		✓ ✓ ✓ L ✓ X ✓ ✓ ✓ X ✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X X X																			
40	FPISS PA12 corrugated, SS316 overbraid		✓ ✓ ✓ L ✓ L ✓ ✓ X ✓ L X ✓ ✓ L L ✓ L ✓ ✓ X X X X																			
40	FPIHSS PA12 corrugated, SS316 overbraid		✓ ✓ ✓ L ✓ L ✓ ✓ X ✓ L X ✓ ✓ L L ✓ L ✓ ✓ X 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	FPAS nylon LFH PA6 corrugated, std weight	✓ ✓ ✓	L ✓ X ✓ ✓ X ✓ ✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X																			
50	FPAL nylon PA6 corrugated, light weight	✓ ✓ ✓	L ✓ X ✓ ✓ X ✓ ✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X																			
51	FPAH nylon LFH PA6 corrugated, heavy weight	✓ ✓ ✓	L ✓ X ✓ ✓ X ✓ ✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X																			
51	FPR nylon extra LFH PA6 corrugated, std weight	✓ ✓ ✓	L ✓ X ✓ ✓ X ✓ ✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X																			
51	FPI nylon PA12 corrugated, standard weight	✓ ✓ ✓	L ✓ L ✓ ✓ X ✓ ✓ L X ✓ L L ✓ L ✓ ✓ X X																			
51	FPIH nylon PA12 corrugated, heavy weight	✓ ✓ ✓	L ✓ L ✓ ✓ X ✓ ✓ L X ✓ L L ✓ L ✓ ✓ X X																			
52	FPY nylon PA6 corrugated, light weight	✓ ✓ ✓	L ✓ X ✓ ✓ X ✓ ✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X																			
52&69	FPADS nylon PA6 double slit corrugated	✓ ✓ ✓	L ✓ X ✓ ✓ X ✓ ✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ X X																			
52	FPP polypropylene corrugated, std weight	✓ ✓ L PP	✓ L L L L L ✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ PPPP																			
52	FPP-NFR polypropylene corrugated, non flame retarded	✓ ✓ L PP	✓ L L L L L ✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ PPPP																			
52	FPPH polypropylene corrugated, heavy weight	✓ ✓ L PP	✓ L L L L L ✓ L X ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ PPPP																			
72	FPCB pvc spiral reinforced black	X X X L	X L X L X L X ✓ L X L L X L L L L X X																			
72	FPCG pvc spiral reinforced grey	X X X L	X L X L X L X ✓ L X L L X L L L L X X																			
72	FPCGN pvc spiral reinforced green oil resistant	✓ ✓ ✓ ✓	X X X L X ✓ L ✓ L X L L L L L X																			
72	FPCBU pvc spiral reinforced blue high temperature	X X X L	X L X L X L X ✓ L X L L X L L L L X X																			
74	LPC smooth, pvc spiral reinforced	✓ ✓ ✓ ✓	X X X L X ✓ L ✓ L X L L L L L L X																			
74	LPCO smooth pvc spiral orange ultra flexible	✓ ✓ ✓ ✓	X X X L X ✓ L ✓ L X L L L L L L X																			
74	LPCGN smooth pvc spiral green oil resistant	✓ ✓ ✓ ✓	X X X L X ✓ L ✓ L X L L L L L L X																			
74	LPCBU smooth pvc spiral blue high temperature	✓ ✓ ✓ ✓	X X X L X ✓ L ✓ L X L L L L L L X																			
76&69	FPL upvc corrugated	✓ ✓ ✓ L	X L X L X L X ✓ L X ✓ L ✓ L ✓ L X X																			
77	FPY nylon PA6, large diameter, std weight	✓ ✓ ✓ L	✓ ✓ X ✓ ✓ 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

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

NPT

American taper pipe thread conforming to ANS/ASME B1.20.1 - 1983

Thread size (inches)	External thread outside diameter (mm)	Pitch mm
5/8"	16.7	1.14
1/2"	21.0	1.81
3/4"	26.4	1.81
1"	33.3	2.21
1 1/4"	41.9	2.21
1 1/2"	47.8	2.21
2"	59.6	2.21

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

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
5/16" - 24 UNEF	5/16"	15.9	14.7	1.06
3/8" - 20 UNEF	3/8"	19.1	17.7	1.27
7/16" - 20 UNEF	7/16"	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 1/8" - 18 UNS	1 1/8"	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

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 ²)	Nominal overall cross sectional area (mm ²) 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 4.0mm² 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.

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

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.

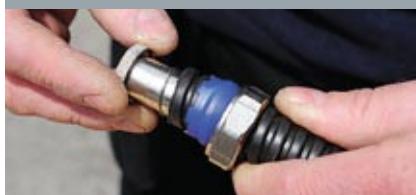
Metallic Fittings

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



FLP conduit with sheath trimmed back

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.

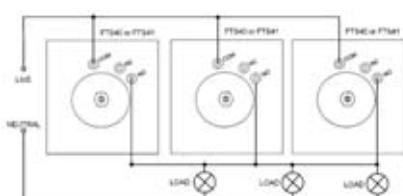
The easiest way of installing cables into flexible and pliable conduit is to simultaneously draw in the cables with the conduit in straight condition before installation.

Energy Management Products

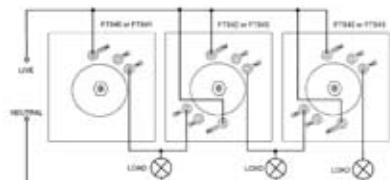
Refer to our website to view a copy of our product instruction sheets

FTS Pneumatic Timeswitch connections

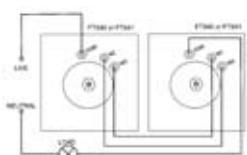
1. Corridor lighting



2. Staircase lighting



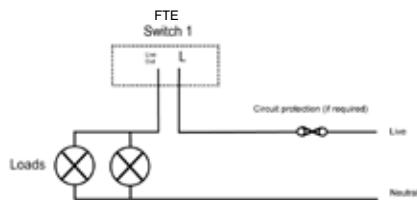
3. Two way switching



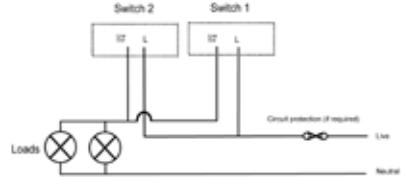
FTE Electronic Timeswitch connections:

FTE2PBE, FTE2PBP and FTE2PBW

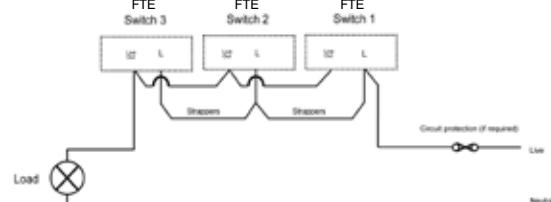
1. Conventional



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.

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

PART INDEX

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
B-050-M20	80	B-PG29-M25	80	FCC50-SS	79	FPA10-PG9	54
B-075-M20	80	B-PG29-M32	80	FCC63	79	FPA11-M12	54
B-075-M25	80	B-PG29-M40	80	FCC75	79	FPA11-M12-90	54
B-100-M32	80	B-PG29-PG16	80	FCL10	79	FPA11-PG7	54
Band saw	81	B-PG29-PG21	80	FCL13	79	FPA13-BFM16	57
Band saw Blades	81	B-PG29-PG36	80	FCL16	79	FPA13-BFM16-90	58
BC16-M16-C	40	B-PG36	78	FCL16B-P	79	FPA13-BFPG9	57
BC16-M16-S	40	B-PG36-M32	80	FCL18	52	FPA13-BFPG9-90	58
BC16-PG11-S	40	B-PG36-M40	80	FCL20	79	FPA13-BM16	57
BC21-M20-C	40	B-PG36-PG29	80	FCL20B-P	79	FPA13-BM16-90	57
BC21-M20-C90	41	B-PG42	78	FCL20W	69	FPA13-BM16-CG	59
BC21-M20-S	40	B-PG42-PG36	80	FCL20W-P	69	FPA13-BM16-CG-90	59
BC21-PG16-S	40	B-PG48	78	FCL21	52	FPA13-BPG9	57
BC28-M25-C	40	B-PG48-PG36	80	FCL25	79	FPA13-BPG9-90	57
BC28-M25-S	40	B-PG7	78	FCL25B-P	79	FPA13-M12	54
BC28-PG21-S	40	B-PG7-M16	80	FCL25W	69	FPA13-M16	54
BC34-M32-C	40	B-PG7-PG9	80	FCL25W-P	69	FPA13-M16-90	54
BC34-M32-S	40	B-PG9	78	FCL28	52	FPA13-M20	54
BC34-PG29-S	40	B-PG9-M16	80	FCL32	52	FPA13-PG11	54
BC42-M40-C	40	B-PG9-M20	80	FCL33B-P	79	FPA13-PG7	54
BC42-M40-S	40	B-PG9-PG11	80	FCL34	79	FPA13-PG9	54
BC54-M40-S	40	B-PG9-PG7	80	FCL40	52	FPA13-PG9-90	54
BC54-M50-C	40	BSB	81	FCL42	79	FPA13-R16	66
B-M12	78	CC01	81	FCL50	52	FPA13-R21	66
B-M16	78	CC02	81	FCL54	79	FPA13-R28	66
B-M16-C	78	CGM16B	79	FL20-25M	32	FPA16-038	54
B-M16-CG	79	CGM16G	79	FL20-M20-C	32	FPA16-050	54
B-M16-M20	80	CGM16R	79	FL25-25M	32	FPA16-050-45	55
B-M16-PG11	80	CGM16W	79	FL25-M25-C	32	FPA16-050-90	54
B-M16-PG7	80	CGM20B	79	FLK10-M12	68	FPA16-13-13	66
B-M16-PG9	80	CGM20G	79	FLK13-M16	68	FPA16-BFM16	57
B-M20	78	CGM20R	79	FLK13-PG9	68	FPA16-BFM16-90	58
B-M20-C	78	CGM20SB	79	FLK16-FLK16	68	FPA16-BFM20	57
B-M20-CG	79	CGM20SG	79	FLK16-M16	68	FPA16-BFM20-45	58
B-M20-EMC	78	CGM20SR	79	FLK16-M16-90	68	FPA16-BFM20-90	58
B-M20-M16	80	CGM20SW	79	FLK16-M16PP	68	FPA16-BFPG11	57
B-M20-M25	80	CGM20W	79	FLK16-M20	68	FPA16-BFPG11-90	58
B-M20-PG11	80	CGM25B	79	FLK16-M20-90	68	FPA16-BFPG16	57
B-M20-PG13	80	CGM25G	79	FLK16-PG11	68	FPA16-BFPG16-45	58
B-M20-PG16	80	CGM25R	79	FLK16-PG13	68	FPA16-BFPG16-90	58
B-M20-PG21	80	CGM25W	79	FLK16-PL20	68	FPA16-BM16	57
B-M20-PG7	80	CGM32B	79	FLK20-FLK20	68	FPA16-BM16-45	58
B-M20-PG9	80	CS01	81	FLK20-FLK20W	69	FPA16-BM16-90	57
B-M25	78	EC16B	71	FLK20-M20	68	FPA16-BM16-CG	59
B-M25-C	78	EC21B	71	FLK20-M20-90	68	FPA16-BM16-CG-45	59
B-M25-CG	79	EC28B	71	FLK20-M20-90W	69	FPA16-BM16-CG-90	59
B-M25-EMC	78	EC34B	71	FLK20-M20BPP	68	FPA16-BM20	57
B-M25-M20	80	EC42B	71	FLK20-M20W	69	FPA16-BM20-45	58
B-M25-M32	80	EC54B	71	FLK20-PL20	68	FPA16-BM20-90	57
B-M25-PG21	80	ES10-13	78	FLK21-FLK21	68	FPA16-BM20-CG	59
B-M32	78	ES14-17	78	FLK21-M20	68	FPA16-BM20-CG-45	59
B-M32-C	78	ES17-20	78	FLK21-M20-90	68	FPA16-BM20-CG-90	59
B-M32-CG	79	ES19-22	78	FLK21-PG16	68	FPA16-BPG11	57
B-M32-EMC	78	ES21-24	78	FLK21-PG16-90	68	FPA16-BPG11-90	57
B-M32-M25	80	ET-M20	79	FLK21-PL20	68	FPA16-BPG11-CG	59
B-M32-M40	80	ET-M25	79	FLK25-FLK25	68	FPA16-BPG13-45	58
B-M32-PG29	80	FB12-25M	36	FLK25-FLK25W	69	FPA16-BPG16-45	58
B-M40	78	FB12-M16-M	36	FLK25-M25	68	FPA16-BPG16-CG	59
B-M40-C	78	FB12-M16-S	36	FLK25-M25-90	68	FPA16-BPG9	57
B-M40-CG	79	FB12-P	37	FLK25-M25-90W	69	FPA16-BPG9-90	57
B-M40-EMC	78	FB12-PG9-M	36	FLK25-M25BPP	68	FPA16-BU075	54
B-M40-M32	80	FB12-PG9-S	36	FLK25-M25W	69	FPA16-BU075-90	55
B-M40-M48	80	FB16-25M	36	FLK25-PL25	68	FPA16-BU100	54
B-M40-PG29	80	FB16-M16-M	36	FLK28-FLK28	68	FPA16-BU100-45	55
B-M50	78	FB16-M16-S	36	FLK28-M25	68	FPA16-BU100-90	55
B-M50-C	78	FB16-M20-M	36	FLK28-M25-90	68	FPA16-BU119	54
B-M50-CG	79	FB16-M20-S	36	FLK28-PG21	68	FPA16-BU119-45	55
B-M50-M32	80	FB16-P	37	FLK28-PG21-90	68	FPA16-BU119-90	55
B-M50-M40	80	FB16-PG11-M	36	FLK28-PL25	68	FPA16-FL	54
B-M50-PG36	80	FB16-PG11-S	36	FLK34-FLK34	68	FPA16-FL-45	56
B-M63	78	FB20-25M	36	FLK34-M32-90	68	FPA16-FL-90	55
B-M63-C	78	FB20-M20-M	36	FLK34-M32-90W	68	FPA16-FPA16	56
B-M63-M40	80	FB20-M20-S	36	FLK34-M32BPP	68	FPA16-M16	54
B-M63-M50	80	FB20-P	37	FLK34-M32W	69	FPA16-M16-90	54
B-M75	78	FB20-PG16-M	36	FLK34-PG29	68	FPA16-M20	54
B-M75-C	78	FB20-PG16-S	36	FLK34-PG29-90	68	FPA16-M20-45	55
BM90-16M	78	FB25-25M	36	FLK34-PL32	68	FPA16-M20-90	54
BM90-20M	78	FB25-M25-M	36	FLK42-M40	68	FPA16-MPC16	56
BM90-25M	78	FB25-M25-S	36	FLK54-M50	68	FPA16-PG11	54
BM90-32M	78	FB25-P	37	FLP16B-25M	32	FPA16-PG11-90	54
BM90-40M	78	FB25-PG21-M	36	FLP16-M16-C	32	FPA16-PG13	54
BM90-50M	78	FB25-PG21-S	36	FLP16-M16-C-HS	33	FPA16-PG13-45	55
BM90-PG7	78	FB32-25M	36	FLP16-M16-F-HS	33	FPA16-PG13-90	54
B-PG11	78	FB32-M32-M	36	FLP20-10M	32	FPA16-PG16	54
B-PG11-M16	80	FB32-M32-S	36	FLP20-25M	32	FPA16-PG9	54
B-PG11-M20	80	FB32-P	37	FLP20-50M	32	FPA16-PG9-90	54
B-PG11-PG13	80	FB32-PG29-M	36	FLP20-M20-C	32	FPA16-R21	66
B-PG11-PG7	80	FB32-PG29-S	36	FLP20-M20-C-HS	33	FPA16-R28	66
B-PG11-PG9	80	FB40-10M	36	FLP20-M20-F-HS	33	FPA16-R34	66
B-PG13	78	FB40-M40-M	36	FLP25B-10M	32	FPA16-FL	66
B-PG13-M16	80	FB40-M40-S	36	FLP25B-25M	32	FPA18-M20	54
B-PG13-M20	80	FB40-P	37	FLP25B-50M	32	FPA18-M20-90	54
B-PG13-PG11	80	FB40-PG36-M	36	FLP25-M25-C	32	FPA18-PG13	54
B-PG13-PG16	80	FB40-PG36-S	36	FLP25-M25-C-HS	33	FPA18-PG13-90	54
B-PG13-PG7	80	FB50-10M	36	FLP25-M25-F-HS	33	FPA18-PG16	54
B-PG13-PG9	80	FB50-M50-M	36	FLP32B-10M	32	FPA18-PFAP20	56
B-PG16	78	FB50-M50-S	36	FLP32B-25M	32	FPA20-M20	54
B-PG16-M16	80	FB50-P	37	FLP32-M32-C	32	FPA20-M20-90	54
B-PG16-M20	80	FB50-PG48-M	36	FLP32-M32-C-HS	33	FPA20-R28	66
B-PG16-M25	80	FB50-PG48-S	36	FLP32-M32-F-HS	33	FPA20-T	66
B-PG16-PG11	80	FCC10	79	FLP40B-25M	32	FPA21-050	54
B-PG16-PG13	80	FCC10-SS	79	FLP40-M40-C-HS	33	FPA21-050-45	55
B-PG16-PG21	80	FCC12	79	FLP40-M40-F-HS	33	FPA21-050-90	54
B-PG16-PG7	80	FCC12-SS	79	FLP50B-20M	32	FPA21-050-90	54
B-PG16-PG9	80	FCC16	79	FLP50-M50-C-HS	33	FPA21-16-16	66
B-PG21	78	FCC16-SS	79	FLP50-M50-F-HS	33	FPA21-BFM20	57
B-PG21-M20	80	FCC20	79	FNU16B-25M	22	FPA21-BFM20-45	58
B-PG21-M25	80	FCC20-SS	79	FNU20B-25M	22	FPA21-BFM20-90	58
B-PG21-M32	80	FCC25	79	FNU25B-25M	22	FPA21-BFPG16	57
B-PG21-PG11	80	FCC25-SS	79	FNU32B-10M	22	FPA21-BFPG16-45	58
B-PG21-PG13	80	FCC32	79	FPA10-M12	54	FPA21-BFPG16-90	58
B-PG21-PG16	80	FCC32-SS	79	FPA10-M12-90	54	FPA21-BM20	57
B-PG21-PG29	80	FCC40	79	FPA10-M16	54	FPA21-BM20-45	58
B-PG21-PG29	78	FCC40-SS	79	FPA10-PG7	54	FPA21-BM20-90	57
B-PG29-M20	80	FCC50	79	FPA10-PG7-90	54	FPA21-BM20-CG	59

Part Number	Page						
FPA21-BM20-CG-45	59	FPA34-M40	54	FPA16-50M	50	FPA21-BPG16	63
FPA21-BM20-CG-90	59	FPA34-MPC32	56	FPA18-50M	50	FPA21-BPG16-45	64
FPA21-BPG13	57	FPA34-PG29	54	FPA20-50M	50	FPA21-BPG16-90	63
FPA21-BPG13-45	58	FPA34-PG29-45	55	FPA21-25M	50	FPA21-BPG16-CG	65
FPA21-BPG13-90	57	FPA34-PG29-90	54	FPA21CB-50M	50	FPA21-BU100	60
FPA21-BPG16	57	FPA34-R42	66	FPA25-50M	50	FPA21-BU100-45	62
FPA21-BPG16-45	58	FPA34T	66	FPA25-25M	50	FPA21-BU100-90	61
FPA21-BPG16-90	57	FPA42-125	54	FPA28-50M	50	FPA21-BU119	60
FPA21-BPG16-CG	59	FPA42-125-90	54	FPA28C-50M	50	FPA21-BU119-45	62
FPA21-BU100	54	FPA42-150	54	FPA34-25M	50	FPA21-BU119-90	61
FPA21-BU100-45	55	FPA42-150-45	55	FPA34-50M	50	FPA21-BU138	60
FPA21-BU100-90	55	FPA42-150-90	54	FPA34F-BF25M	50	FPA21-BU138-45	62
FPA21-BU119	54	FPA42-BFM40	57	FPA42-10M	50	FPA21-BU138-90	61
FPA21-BU119-45	55	FPA42-BFM40-45	58	FPA42-25M	50	FPA21-FL	60
FPA21-BU119-90	55	FPA42-BFM50-90	58	FPA54-10M	50	FPA21-FL45	62
FPA21-BU138	54	FPA42-BM40	57	FPA54-25M	50	FPA21-FL90	61
FPA21-BU138-45	55	FPA42-BM40-CG	59	FPA67-10M	50	FPA21-M20	60
FPA21-BU138-90	55	FPA42-BM40-CG-45	59	FPA67-CP21B	83	FPA21-M20-45	62
FPA21-FL	54	FPA42-BM40-CG-90	59	FPA8-CP25B	83	FPA21-M20-90	61
FPA21-FL45	56	FPA42-BM50	57	FPA13-BFM16	63	FPA21-M20-SBCA	42
FPA21-FL90	55	FPA42-BM50-45	58	FPA13-BFM16-90	64	FPA21-PG13	60
FPA21-PG13	56	FPA42-BM50-90	57	FPA13-BFPG9	63	FPA21-PG13-45	62
FPA21-PG13-45	55	FPA42-BU200	54	FPA13-BFPG9-90	64	FPA21-PG13-90	61
FPA21-PG13-90	54	FPA42-BU200-45	55	FPA13-BM16	63	FPA21-PG16	60
FPA21-PG16	54	FPA42-BU200-90	55	FPA13-BM16-90	63	FPA21-PG16-45	62
FPA21-PG16-45	55	FPA42-BU225	54	FPA13-BM16-CG	65	FPA21-PG16-90	61
FPA21-PG16-90	54	FPA42-BU225-45	55	FPA13-BM16-CG-90	65	FPA21-R28	67
FPA21-R28	66	FPA42-BU225-90	55	FPA13-BPG9	63	FPA21-R34	67
FPA21-R34	66	FPA42-FL	54	FPA13-BPG9-90	64	FPA21-R42	67
FPA21-R42	66	FPA42-FL45	56	FPA13-BPG90	63	FPA21-T	67
FPA21T	66	FPA42-FL90	55	FPA13-M16	60	FPA23-T	67
FPA25-FPA25	56	FPA42-M40	54	FPA13-M16-90	61	FPA28-075	60
FPA25-M25	54	FPA42-PG36	54	FPA13-PG9	60	FPA28-075-45	62
FPA25-M25-90	54	FPA42-PG36-45	55	FPA13-PG9-90	61	FPA28-075-90	61
FPA25-R28	66	FPA42-PG36-90	54	FPA13-R16	67	FPA28-21-21	67
FPA28-075	54	FPA42T	66	FPA16-038	60	FPA28-BFM25	63
FPA28-075-45	55	FPA42-M50	55	FPA16-050	60	FPA28-BFM25-45	64
FPA28-075-90	54	FPA42-MPC40	56	FPA16-050-45	62	FPA28-BFM25-90	63
FPA28-21-21	66	FPA42-PG36	54	FPA16-050-90	61	FPA28-BM25-CG	65
FPA28-BF25	57	FPA42-PG36-45	55	FPA16-13-13	67	FPA28-BM25-CG-45	65
FPA28-BFM25-45	58	FPA42-PG36-90	54	FPA16-BFM16	63	FPA28-BM25-CG-90	65
FPA28-BFM25-90	58	FPA42T	66	FPA16-BFM16-90	64	FPA28-BPG21	63
FPA28-BFPG21	57	FPA54-150	54	FPA16-BFM20	63	FPA28-BPG21-45	64
FPA28-BFPG21-45	58	FPA54-150-45	55	FPA16-BFM20-45	64	FPA28-BFPG21-90	64
FPA28-BFPG21-90	58	FPA54-150-90	54	FPA16-BFM20-90	64	FPA28-BM25	63
FPA28-BM25	57	FPA54-200	54	FPA16-BFPG11	63	FPA28-BM25-45	64
FPA28-BM25-45	58	FPA54-200-90	54	FPA16-BFPG11-90	64	FPA28-BM25-90	63
FPA28-BM25-90	58	FPA54-BFM50	57	FPA16-BFPG16	63	FPA28-BM25-CG	65
FPA28-BM25-CG	59	FPA54-BFM50-45	58	FPA16-BFPG16-45	64	FPA28-BM25-CG-45	65
FPA28-BM25-CG-45	59	FPA54-BFM50-90	58	FPA16-BFPG16-90	64	FPA28-BM25-CG-90	65
FPA28-BM25-CG-90	59	FPA54-BM50	57	FPA16-BM16	63	FPA28-BPG21	63
FPA28-BP21	57	FPA54-BM50-45	58	FPA16-BM16-45	64	FPA28-BPG21-45	64
FPA28-BPG21-45	58	FPA54-BM50-90	58	FPA16-BM16-90	63	FPA28-BPG21-90	63
FPA28-BPG21-90	57	FPA54-BM50	57	FPA16-BM16-CG	65	FPA28-BU144	62
FPA28-BU144	57	FPA54-BM50-45	58	FPA16-BM16-CG-45	65	FPA28-BU144-45	61
FPA28-BU144-45	55	FPA54-BU225	55	FPA16-BM16-CG-90	65	FPA28-BU144-90	61
FPA28-BU144-90	55	FPA54-FL	56	FPA16-BM20	63	FPA28-BU175	60
FPA28-BU175	54	FPA54-FL90	55	FPA16-BM20-45	64	FPA28-BU175-45	62
FPA28-BU175-45	55	FPA54-FPA54	56	FPA16-BM20-90	63	FPA28-BU175-90	61
FPA28-BU175-90	55	FPA54-M50	54	FPA16-BM20-CG	65	FPA28-FL	60
FPA28-FL	54	FPA54-M50-45	55	FPA16-BM20-CG-90	65	FPA28-FL45	62
FPA28-FL45	56	FPA54-M50-90	54	FPA16-BPG11	63	FPA28-FL90	61
FPA28-FL90	55	FPA54-M63	54	FPA16-BPG11-90	63	FPA28-M25	60
FPA28-FPA28	56	FPA54-M63-90	54	FPA16-BPG11-CG	65	FPA28-M25-45	62
FPA28-M25	54	FPA54-PG42	54	FPA16-BPG13-45	64	FPA28-M25-90	61
FPA28-M25-45	55	FPA54-PG48	54	FPA16-BPG16-45	64	FPA28-M25-SBCA	42
FPA28-M25-90	54	FPA54-PG48-90	54	FPA16-BPG16-CG	65	FPA28-PG21	60
FPA28-M25-SBCA	42	FPA67-200	54	FPA16-BPG9	63	FPA28-PG21-45	61
FPA28-M32	54	FPA67-200-90	54	FPA16-BPG9-90	63	FPA28-PG21-90	61
FPA28-MPC25	56	FPA67-BM63	57	FPA16-BU075	60	FPA28-PG21-CG	65
FPA28-PG21	54	FPA67-M63	54	FPA16-BU075-90	61	FPA28-BU144	60
FPA28-PG21-45	55	FPA67-M63-90	54	FPA16-BU100	60	FPA28-BU144-45	62
FPA28-PG21-90	54	FPA67-PG48	54	FPA16-BU100-45	62	FPA28-BU144-90	61
FPA28-PG21-99	54	FPA67-200	54	FPA16-BU100-90	61	FPA28-BU175	60
FPA28-R34	66	FPA67-200-90	54	FPA16-BU119	60	FPA28-BU175-45	62
FPA28-R42	66	FPA67-BM63	57	FPA16-BU119-45	62	FPA28-FL	60
FPA28T	66	FPA67-M63	54	FPA16-BU119-90	61	FPA28-FL45	62
FPA34-100	54	FPA67-S21	52	FPA16-FL	60	FPA28-FL90	61
FPA34-100-45	55	FPA67-S28	52	FPA16-FL45	62	FPA28-M25	60
FPA34-100-90	54	FPA67-S34	52	FPA16-FL90	61	FPA28-M25-45	62
FPA34-28	66	FPA67-S42	52	FPA16-M16	60	FPA28-M25-90	61
FPA34-44	66	FPA67-S50	52	FPA16-M16-90	61	FPA28-M25-SBCA	42
FPA34-44	66	FPA67-S54	52	FPA16-M20	60	FPA28-PG21	60
FPA34-44	66	FPA67-S54-25M	52	FPA16-M20-45	61	FPA28-PG21-45	61
FPA34-44	66	FPA67-S54-90	52	FPA16-M20-90	61	FPA28-PG21-90	61
FPA34-44	66	FPA67-S60	52	FPA16-M20-CG	62	FPA28-PG29	60
FPA34-44	66	FPA67-S60	52	FPA16-M20-CG-90	62	FPA28-R34	67
FPA34-44	66	FPA67-S60	52	FPA16-M20-90	61	FPA28-R42	67
FPA34-44	66	FPA67-S60	52	FPA16-M20-CG-45	64	FPA28-T	67
FPA34-44	66	FPA67-S60	52	FPA16-M20-CG-90	64	FPA34-100	60
FPA34-44	66	FPA67-S60	52	FPA16-M20-90	61	FPA34-100-45	62
FPA34-44	66	FPA67-S60	52	FPA16-M20-CG-45	64	FPA34-100-90	61
FPA34-44	66	FPA67-S60	52	FPA16-M20-CG-90	64	FPA34-28-28	67
FPA34-44	66	FPA67-S60	52	FPA16-BU100	61	FPA34-BFM32	63
FPA34-44	66	FPA67-S60	52	FPA16-BU100-90	61	FPA34-BFM32-45	64
FPA34-44	66	FPA67-S60	52	FPA16-BU119	60	FPA34-BFM32-90	63
FPA34-44	66	FPA67-S60	52	FPA16-BU119-45	62	FPA34-BM25	65
FPA34-44	66	FPA67-S60	52	FPA16-BU119-90	61	FPA34-BM25-45	65
FPA34-44	66	FPA67-S60	52	FPA16-FL	60	FPA34-BM25-90	63
FPA34-44	66	FPA67-S60	52	FPA16-FL45	62	FPA34-BM25-SBCA	42
FPA34-44	66	FPA67-S60	52	FPA16-FL90	61	FPA34-BM32	63
FPA34-44	66	FPA67-S60	52	FPA16-M16	60	FPA34-BM32-45	64
FPA34-44	66	FPA67-S60	52	FPA16-M16-90	61	FPA34-BM32-90	63
FPA34-44	66	FPA67-S60	52	FPA16-M20	60	FPA34-BM32-CG	65
FPA34-44	66	FPA67-S60	52	FPA16-M20-45	61	FPA34-BM32-CG-45	65
FPA34-44	66	FPA67-S60	52	FPA16-M20-90	61	FPA34-BM32-CG-90	65
FPA34-44	66	FPA67-S60	52	FPA16-M20-CG	62	FPA34-BPG29	64
FPA34-44	66	FPA67-S60	52	FPA16-M20-CG-45	64	FPA34-BPG29-45	64
FPA34-44	66	FPA67-S60	52	FPA16-M20-CG-90	64	FPA34-BPG29-90	64
FPA34-44	66	FPA67-S60	52	FPA16-BU175	60	FPA34-BPG29-99	63
FPA34-44	66	FPA67-S60	52	FPA16-BU175-45	62	FPA34-BPG29-CG	65
FPA34-44	66	FPA67-S60	52	FPA16-BU175-90	61	FPA34-BU175	60
FPA34-44	66	FPA67-S60	52	FPA16-FR	60	FPA34-BU175-45	62
FPA34-44	66	FPA67-S60	52	FPA16-FR21	67	FPA34-BU175-90	61
FPA34-44	66	FPA67-S60	52	FPA16-FR21	67	FPA34-FL	60
FPA34-44	66	FPA67-S60	52	FPA16-FR21	67	FPA34-FL45	62
FPA34-44	66	FPA67-S60	52	FPA16-FR21	67	FPA34-FL90	61
FPA34-44	66	FPA67-S60	52	FPA16-FR21	67	FPA34-M32	60
FPA34-44	66	FPA67-S60	52	FPA16-FR21	67	FPA34-M32-45	62
FPA34-44	66	FPA67-S60	52	FPA16-FR21	67	FPA34-M32-90	61
FPA34-44	66	FPA67-S60	52	FPA16-FR21	67	FPA34-M32-SBCA	42
FPA34-44	66	FPA67-S60	52	FPA16-FR21	67	FPA34-M40	60
FPA34-44	66	FPA67-S60	52	FPA16-FR21	67	FPA34-PG29	60
FPA34-44	66	FPA67-S60	52	FPA16-FR21	67	FPA34-PG29-45	62
FPA34-44	66	FPA67-S60	52	FPA16-FR21	67	FPA34-PG29-90	61
FPA34-44	66	FPA67-S60	52	FPA16-FR21	67	FPA34-R42	67
FPA34-44	66	FPA67-S60	52	FPA16-FR21	67	FPA34-T	67
FPA34-44	66	FPA67-S60	52	FPA16-FR21	67	FPA42-125	60
FPA34-44	66	FPA67-S60	52	FPA16-FR21	67	FPA42-125-90	61
FPA34-44</							

PART INDEX

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
FPAX42-BM40-CG	65	FPIH16B-50M	51	FPYS16B-50M	52	FSU16-PG11-M	22
FPAX42-BM40-CG-45	65	FPIH21B-50M	51	FPYS20B-50M	52	FSU16-PG11-S	22
FPAX42-BM40-CG-90	65	FPIH28B-50M	51	FPYS25B-50M	52	FSU16-PG13-C	23
FPAX42-BM50	63	FPIH34B-25M	51	FPYS28B-50M	52	FSU16-PG13-S	22
FPAX42-BM50-45	64	FPIH42B-25M	51	FPYS32B-25M	52	FSU20-050-C	23
FPAX42-BM50-90	63	FPIH54B-25M	51	FPYS40B-25M	52	FSU20B-10M	22
FPAX42-BU200	60	FPIHSS16-50M	40	FPYS50B-25M	52	FSU20B-25M	22
FPAX42-BU200-45	62	FPIHSS21-50M	40	FPYS8B-50M	52	FSU20-E	23
FPAX42-BU200-90	61	FPIHSS28-50M	40	FSB12-25M	34	FSU20-FSU20	23
FPAX42-BU225	60	FPIHSS34-25M	40	FSB12-M16-M	34	FSU20-M20-C	23
FPAX42-BU225-45	62	FPIHSS42-25M	40	FSB12-M16-S	34	FSU20-M20-C	23
FPAX42-BU225-90	61	FPIHSS54-25M	40	FSB12-P	35	FSU20-M20-C90	23
FPAX42-FL	60	FPISS16-50M	40	FSB12-PG9-M	34	FSU20-M20-CG	43
FPAX42-FL-45	62	FPISS21-50M	40	FSB12-PG9-S	34	FSU20-M20-C-S	23
FPAX42-FL-90	61	FPISS28-50M	40	FSB16-25M	34	FSU20-M20-F	23
FPAX42-M40	60	FPISS34-25M	40	FSB16-M16-C	35	FSU20-M20-M	22
FPAX42-M40-90	61	FPISS42-25M	40	FSB16-M16-C90	35	FSU20-M20-S	22
FPAX42-M40-SBCA	42	FPISS54-25M	40	FSB16-M16-C-S	35	FSU20-P	22
FPAX42-M50	60	FPL16-100M	76	FSB16-M16-M	34	FSU20-PG16-C	23
FPAX42-M50-45	62	FPL20-100M	76	FSB16-M16-S	34	FSU20-PG16-M	22
FPAX42-M50-90	61	FPL20W-100M	69	FSB16-M20-C	35	FSU20-PG16-S	22
FPAX42-PG36	60	FPL25-50M	76	FSB16-M20-C90	35	FSU25-075-C	23
FPAX42-PG36-45	62	FPL25W-50M	69	FSB16-M20-C-S	35	FSU25B-10M	22
FPAX42-PG36-90	61	FPL32-25M	76	FSB16-M20-M	34	FSU25B-25M	22
FPAX42T	67	FPL-CP20W	82	FSB16-M20-S	34	FSU25B-50M	22
FPAX54-150	60	FPL-CP25W	82	FSB16-P	35	FSU25-E	23
FPAX54-150-45	62	FPP10-50M	52	FSB16-PG11-C	35	FSU25-FSU25	23
FPAX54-150-90	61	FPP13-50M	52	FSB16-PG11-M	34	FSU25-M25-C	23
FPAX54-200	60	FPP16-50M	52	FSB16-PG11-S	34	FSU25-M25-C90	23
FPAX54-200-90	61	FPP20-50M	52	FSB16-PG13-C	35	FSU25-M25-CG	43
FPAX54-BFM50	63	FPP20W-50M	69	FSB20-25M	34	FSU25-M25-C-S	23
FPAX54-BFM50-45	64	FPP21-50M	52	FSB20-M20-C	35	FSU25-M25-F	23
FPAX54-BFM50-90	64	FPP25-50M	52	FSB20-M20-C90	35	FSU25-M25-M	22
FPAX54-BM50	63	FPP25W-50M	69	FSB20-M20-CG	43	FSU25-M25-S	22
FPAX54-BM50-45	64	FPP26-50M	52	FSB20-M20-C-S	35	FSU25-P	22
FPAX54-BM50-90	63	FPP28-50M	52	FSB20-M20-M	34	FSU25-PG21-C	23
FPAX54-BM50-CG	65	FPP34-50M	52	FSB20-M20-S	34	FSU25-PG21-M	22
FPAX54-BM50-CG-45	65	FPP34W-50M	69	FSB20-P	35	FSU25-PG21-S	22
FPAX54-BM50-CG-90	65	FPP42-25M	52	FSB20-PG16-C	35	FSU32-100-C	23
FPAX54-BM63	63	FPP54-25M	52	FSB20-PG16-M	34	FSU32B-10M	22
FPAX54-BU200	60	FPP67-10M	52	FSB20-PG16-S	34	FSU32B-25M	22
FPAX54-BU200-45	62	FPP-CP20B	83	FSB25-25M	34	FSU32-E	23
FPAX54-BU200-90	61	FPP-CP20G	83	FSB25-M25-C	35	FSU32-M32-C	23
FPAX54-BU225	60	FPP-CP25B	83	FSB25-M25-C90	35	FSU32-M32-C90	23
FPAX54-BU225-45	62	FPP-CP25G	83	FSB25-M25-CG	43	FSU32-M32-CG	43
FPAX54-BU225-90	61	FPPS10-50M	52	FSB25-M25-C-S	35	FSU32-M32-C-S	23
FPAX54-M50	60	FPPS13-50M	52	FSB25-M25-M	34	FSU32-M32-F	23
FPAX54-M50-45	62	FPPS16-50M	52	FSB25-M25-S	34	FSU32-M32-M	22
FPAX54-M50-90	61	FPPS21-50M	52	FSB25-P	35	FSU32-M32-S	22
FPAX54-M63	60	FPPS25-50M	52	FSB25-PG21-C	35	FSU32-P	22
FPAX54-M63-90	61	FPPS28-50M	52	FSB25-PG21-M	34	FSU32-PG29-C	23
FPAX54-PG48	60	FPPS34-25M	52	FSB25-PG21-S	34	FSU32-PG29-M	22
FPAX54-PG42	60	FPPS42-25M	52	FSB32-25M	34	FSU32-PG29-S	22
FPAX54-PG48-90	61	FPPS54-25M	52	FSB32-M32-C	35	FSU40B-10M	22
FPC12B-30M	72	FPPS-TP21G	82	FSB32-M32-C90	35	FSU40B-25M	22
FPC12BU-30M	72	FPR10B-50M	51	FSB32-M32-CG	43	FSU40-E	23
FPC12G-30M	72	FPR13B-50M	51	FSB32-M32-C-S	35	FSU40-M40-C	23
FPC12GN-30M	72	FPR16B-50M	51	FSB32-M32-M	34	FSU40-M40-M	22
FPC16B-30M	72	FPR20B-50M	51	FSB32-M32-S	34	FSU40-M40-S	22
FPC16BU-30M	72	FPR21B-50M	51	FSB32-P	35	FSU40-P	22
FPC16G-30M	72	FPR25B-50M	51	FSB32-PG29-C	35	FSU40-PG36-M	22
FPC16GN-30M	72	FPR28B-50M	51	FSB32-PG29-M	34	FSU40-PG36-S	22
FPC20B-30M	72	FPR34B-50M	51	FSB32-PG29-S	34	FSU50B-10M	22
FPC20BU-30M	72	FPR42B-25M	51	FSB40-10M	34	FSU50B-25M	22
FPC20G-30M	72	FPR54B-25M	51	FSB40-M40-M	34	FSU50-E	23
FPC20GN-30M	72	FPRSS16-50M	40	FSB40-M40-S	34	FSU50-M50-C	23
FPC25B-30M	72	FPRSS21-50M	40	FSB40-P	35	FSU50-M50-M	22
FPC25BU-30M	72	FPRSS28-50M	40	FSB40-PG36-M	34	FSU50-M50-S	22
FPC25G-30M	72	FPRSS34-50M	40	FSB40-PG36-S	34	FSU50-P	22
FPC25GN-30M	72	FPRSS42-25M	40	FSB50-10M	34	FSU50-PG42-S	22
FPC30B-30M	72	FPRSS54-25M	40	FSB50-M50-M	34	FSU50-PG48-M	22
FPC30G-30M	72	FPRTC16-50M	40	FSB50-M50-S	34	FSU63B-10M	22
FPC32B-10M	72	FPRTC21-50M	40	FSB50-P	35	FSU63-E	23
FPC32B-30M	72	FPRTC28-50M	40	FSB50-PG42-S	34	FSU63-M63-M	22
FPC32BU-10M	72	FPRTC34-50M	40	FSB50-PG48-M	34	FSU63-M63-S	22
FPC32BU-30M	72	FPRTC42-25M	40	FSU10B-25M	22	FSU63-P	22
FPC32G-10M	72	FPRTC54-25M	40	FSU10B-50M	22	FSU75B-10M	22
FPC32G-30M	72	FPU12B-25M	24	FSU10-E	23	FSU75-E	23
FPC32GN-10M	72	FPU12B-25M	24	FSU10-M12-C	23	FSU75-M75-M	22
FPC32GN-30M	72	FPU16B-25M	24	FSU10-M12-M	22	FSU75-P	22
FPC40B-10M	72	FPU16B-25M	24	FSU10-M12-S	22	FSU-CP20B	83
FPC40B-30M	72	FPU16B-50M	24	FSU10-P	22	FTCB10-50M	42
FPC40BU-10M	72	FPU16B-50M	24	FSU10-PG7-M	22	FTCB12-50M	42
FPC40BU-30M	72	FPU20B-25M	24	FSU10-PG7-S	22	FTCB15	42
FPC40G-10M	72	FPU20B-25M	24	FSU12B-25M	22	FTCB15-50M	42
FPC40G-30M	72	FPU20B-50M	24	FSU12B-50M	22	FTCB20	42
FPC40GN-10M	72	FPU20B-50M	24	FSU12E	23	FTCB20-50M	42
FPC40GN-30M	72	FPU25B-25M	24	FSU12-M16-C	23	FTCB25	42
FPC50B-10M	72	FPU25B-25M	24	FSU12-M16-C90	23	FTCB25-50M	42
FPC50B-30M	72	FPU32B-25M	24	FSU12-M16-C-S	23	FTCB30	42
FPC50BU-10M	72	FPU40B-10M	24	FSU12-M16-M	22	FTCB30-25M	42
FPC50BU-30M	72	FPU40B-10M	24	FSU12-M16-S	22	FTCB3-100M	42
FPC50G-10M	72	FPU40B-10M	24	FSU12-P	22	FTCB35	42
FPC50G-30M	72	FPU50B-10M	24	FSU12-PG9-C	23	FTCB35-25M	42
FPC50GN-10M	72	FPU50B-10M	24	FSU12-PG9-M	22	FTCB4-100M	42
FPC50GN-30M	72	FPU63B-10M	24	FSU12-PG9-S	22	FTCB50-25M	42
FPC63B-10M	72	FPU63B-10M	24	FSU16-050-C	23	FTCB5-100M	42
FPC63B-30M	72	FPU75B-10M	24	FSU16B-10M	22	FTCB6-100M	42
FPC63BU-10M	72	FPU75B-10M	24	FSU16B-25M	22	FTE2PBE	85
FPC63BU-30M	72	FPY10-50M	52	FSU16B-50M	22	FTE2PPB	85
FPC63G-10M	72	FPY10E-10M	77	FSU16-E	23	FTE2PBW	85
FPC63G-30M	72	FPY12-50M	52	FSU16-M16-C	23	FTS163	85
FPC63GN-10M	72	FPY16-50M	52	FSU16-M16-C90	23	FTS40	85
FPC63GN-30M	72	FPY20-50M	52	FSU16-M16-C-S	23	FTS41	85
FPC-CP20B	83	FPY25-50M	52	FSU16-M16-F	23	FTS42	85
FPC-CP25B	83	FPY28-50M	52	FSU16-M16-M	22	FTS43	85
FPI13-50M	51	FPY32-25M	52	FSU16-M16-S	22	FU10-25M	20
FPI16-50M	51	FPY40-25M	52	FSU16-M20-C	23	FU10-50M	20
FPI21-50M	51	FPY50-25M	52	FSU16-M20-C90	23	FU10-M12-M	20
FPI28-50M	51	FPY80-10M	77	FSU16-M20-C-S	23	FU10-M12-S	20
FPI34-25M	51	FPY8-50M	52	FSU16-M20-F	23	FU10-P	21
FPI42-25M	51	FPYE-CP20B	83	FSU16-M20-M	22	FU10-PG7-M	20
FPI54-25M	51	FPYE-CP25B	83	FSU16-M20-S	22	FU10-PG7-S	20
FPI67-10M	51	FPYS10B-50M	52	FSU16-P	22	FU12-25M	20
FPI67-10M	51	FPYS12B-50M	52	FSU16-PG11-C	23	FU12-50M	20

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
FU12-M16-M	20	LM40-N	78	LTPRDLFH32B-25M	28	LTPB16-M20-C90	39
FU12-M16-S	20	LM50-N	78	LTPRD2P20B-25M	28	LTPB16-M20-S	38
FU12-P	21	LM63-N	78	LTPRD2P25B-25M	28	LTPB20-M20-C	38
FU12-PG9-M	20	LPC12B-30M	74	LTPRD2P32B-25M	28	LTPB20-M20-C90	39
FU12-PG9-S	20	LPC12BU-30M	74	LTPRD40B-10M	28	LTPB20-M20-S	38
FU16-10M	20	LPC12G-30M	74	LTPRD50B-10M	28	LTPB25-M25-C	38
FU16-25M	20	LPC12GN-30M	74	LTP10B-50M	26	LTPB25-M25-C90	39
FU16-50M	20	LPC12-M16-C	75	LTP10-E	27	LTPB25-M25-S	38
FU16-M16-F	21	LPC12-M16-C90	75	LTP10-M12-C	26	LTPB32-M32-C	38
FU16-M16-M	20	LPC12O-30M	74	LTP10-M16-C	26	LTPB32-M32-C90	39
FU16-M16-S	20	LPC16B-30M	74	LTP12B-25M	26	LTPB32-M32-S	38
FU16-M20-F	21	LPC16BU-30M	74	LTP12B-50M	26	LTPB40-M40-C	38
FU16-M20-M	20	LPC16G-30M	74	LTP12-E	27	LTPB40-M40-C90	39
FU16-M20-S	20	LPC16GN-30M	74	LTP12-M16-C	26	LTPB40-M40-S	38
FU16-P	21	LPC16-M16-C	75	LTP12-M16-C90	27	LTPB50-M50-C	38
FU16-PG11-M	20	LPC16-M16-C90	75	LTP12-M16-S	27	LTPB50-M50-C90	39
FU16-PG11-S	20	LPC16-M16-CSS	75	LTP12-PG9-C	26	LTPB50-M50-S	38
FU16-PG13-S	20	LPC16-M16-S	75	LTP16-050-C	26	LTPBRD16-25M	38
FU20-10M	20	LPC16-M20-C	75	LTP16B-10M	26	LTPBRD20-25M	38
FU20-25M	20	LPC16-M20-C90	75	LTP16B-25M	26	LTPBRD25-25M	38
FU20-50M	20	LPC16-M20-CSS	75	LTP16B-50M	26	LTPBRD32-25M	38
FU20-M20-F	21	LPC16-M20-CSS90	75	LTP16-E	27	LTPBRD40-10M	38
FU20-M20-M	20	LPC16-M20-S	75	LTP16-M16-C	26	LTPBRD50-10M	38
FU20-M20-S	20	LPC16O-30M	74	LTP16-M16-C90	27	LTPE16-25M	26
FU20-P	21	LPC16-PG11-C	75	LTP16-M16-CSS	29	LTPE20-25M	26
FU20-PG16-M	20	LPC16-PG13-C	75	LTP16-M16-S	27	LTPE25-25M	26
FU20-PG16-S	20	LPC20B-10M	74	LTP16-M20-C	26	LTPE32-10M	26
FU25-10M	20	LPC20B-30M	74	LTP16-M20-C45	27	LTPE32-25M	26
FU25-25M	20	LPC20BU-10M	74	LTP16-M20-CSS	29	LTPE40-10M	26
FU25-25M-F	21	LPC20BU-30M	74	LTP16-M20-CSS90	29	LTPE40-25M	26
FU25-25M-M	20	LPC20G-10M	74	LTP16-M20-EXD	31	LTPE50-10M	26
FU25-25M-S	20	LPC20GN-10M	74	LTP16-M20-S	27	LTPE50-25M	26
FU25-P	21	LPC20GN-30M	74	LTP16-PG11-C	26	LTPE63-10M	26
FU25-PG21-M	20	LPC20-M20-C	75	LTP16-PG13-C	26	LTPE63-25M	26
FU25-PG21-S	20	LPC20-M20-C90	75	LTP20-050-C	26	LTPHC12B-25M	26
FU32-10M	20	LPC20-M20-CG	43	LTP20B-10M	26	LTPHC16B-25M	26
FU32-25M	20	LPC20-M20-CSS	75	LTP20B-25M	26	LTPHC20B-25M	26
FU32-M32-F	21	LPC20-M20-CSS90	75	LTP20B-50M	26	LTPHC25B-25M	26
FU32-M32-M	20	LPC20-M20-S	75	LTP20-E	27	LTPHC32B-25M	26
FU32-M32-S	20	LPC20O-10M	74	LTP20-LTP20	27	LTPHC40B-10M	26
FU32-P	21	LPC20O-30M	74	LTP20-M20-C	26	LTPHC50B-10M	26
FU32-PG29-M	20	LPC20-PG16-C	75	LTP20-M20-C45	27	LTPHC63B-10M	26
FU32-PG29-S	20	LPC25B-10M	74	LTP20-M20-C90	27	LTPPPU10B-25M	28
FU40-10M	20	LPC25B-30M	74	LTP20B-10M	26	LTPPPU12B-25M	28
FU40-25M	20	LPC25B5U-10M	74	LTP20B-25M	26	LTPPPU16B-25M	28
FU40-M40-M	20	LPC25BU-30M	74	LTP20B-50M	26	LTPPPU20B-25M	28
FU40-M40-S	20	LPC25G-10M	74	LTP25-E	27	LTPPPU25B-25M	28
FU40-P	21	LPC25G-30M	74	LTP25-LTP25	27	LTPPPU32B-25M	28
FU40-PG36-M	20	LPC25GN-10M	74	LTP25-M20-C	26	LTPPPU40B-10M	28
FU40-PG36-S	20	LPC25GN-30M	74	LTP25-M25-C	26	LTPPU10B-10M	28
FU50-10M	20	LPC25M-25-C	75	LTP25-M20-CG	43	LTPPU12B-10M	28
FU50-25M	20	LPC25M-25-C90	75	LTP25-M20-CSS	29	LTPPU16B-10M	28
FU50-M50-M	20	LPC25M-25-CG	43	LTP25-M20-EXD	31	LTPPU20B-10M	28
FU50-M50-S	20	LPC25M-25-CSS	75	LTP20-M20-S	27	LTPPU25B-10M	28
FU50-P	21	LPC25M-25-CSS90	75	LTP20-PG16-C	26	LTPPU32B-10M	28
FU50-PG42-S	20	LPC25M-25-S	75	LTP25-075-C	26	LTPPU40B-10M	28
FU50-PG48-M	20	LPC25O-10M	74	LTP25B-10M	26	LTPSS16-25M	28
FU63-10M	20	LPC25O-30M	74	LTP25B-25M	26	LTPSS20-25M	28
FU63-M63-M	20	LPC25-PG21-C	75	LTP25B-50M	26	LTPSS25-25M	28
FU63-M63-S	20	LPC32B-10M	74	LTP25E	27	LTPSS32-10M	28
FU63-P	21	LPC32B-30M	74	LTP25-LTP25	27	LTPUL16B-25M	26
FU75-10M	20	LPC32BU-10M	74	LTP25-M25-C	26	LTPUL20B-25M	26
FU75-M75-M	20	LPC32BU-30M	74	LTP25-M25-C45	27	LTPUL25B-25M	26
FU75-P	21	LPC32C-10M	74	LTP25-M25-C90	27	LTPUL32B-15M	26
FUSSB20-25M	36	LPC32C-30M	74	LTP25-M25-CG	43	LTPUL40B-15M	26
FUSSB25-25M	36	LPC32GN-10M	74	LTP25-M25-CSS	29	LTPUL63B-15M	26
FUSSB32-25M	36	LPC32GN-30M	74	LTP25-M25-CSS90	29	MP-106-FL	77
FW12	79	LPC32M-32-C	75	LTP25-M25-EXD	31	MP-12-M16	70
FW16	79	LPC32M32-C90	75	LTP25-M25-S	27	MP-16-M16	70
FW20	79	LPC32M32-CG	43	LTP25-PG21-C	26	MP-16-M20	70
FW25	79	LPC32M32-CSS	75	LTP32-100-C	26	MP-20-M20	70
FW32	79	LPC32M32-CSS90	75	LTP32B-10M	26	MP-25-M25	70
FW40	79	LPC32M32-S	75	LTP32B-25M	26	MP-28-M25	70
FW50	79	LPC32O-10M	74	LTP32-E	27	MP-32-M32	70
FW63	79	LPC32O-30M	74	LTP32-M32-C	26	MP-40-M40	70
FWPG11	79	LPC32-PG29-C	75	LTP32-M32-C45	27	MP-50-M50	70
FWPG13	79	LPC40B-10M	74	LTP32-M32-C90	27	MP-80-FL	77
FWPG16	79	LPC40B-30M	74	LTP32-M32-CG	43	MP90-106-FL	77
FWPG21	79	LPC40BU-10M	74	LTP32-M32-CSS	29	MP90-16-M16	70
FWPG29	79	LPC40BU-30M	74	LTP32-M32-CSS90	29	MP90-16-M20	70
FWPG36	79	LPC40G-10M	74	LTP32-M32-EXD	31	MP90-20-M20	70
FWPG48	79	LPC40G-30M	74	LTP32-M32-S	27	MP90-25-M25	70
FWPG7	79	LPC40GN-10M	74	LTP32-PG29-C	26	MP90-28-M25	70
FWPG9	79	LPC40GN-30M	74	LTP40-175-C	26	MP90-32-M32	70
HACKSAWBLADE	81	LPC40-M40-C	75	LTP40B-10M	26	MP90-40-M40	70
LFHP16B-25M	33	LPC40-M40-C90	75	LTP40B-25M	26	MP90-50-M50	70
LFHP20B-25M	33	LPC40O-10M	74	LTP40-E	27	MP90-80-FL	77
LFHP25B-25M	33	LPC40O-30M	74	LTP40-M40-C	26	MP90-12-M16	71
LFHP32B-25M	33	LPC50B-10M	74	LTP40-M40-C45	27	MP90-16-PG9	72
LFHP40B-25M	33	LPC50B-30M	74	LTP40-M40-C90	27	MP90-16-050	74
LFHP50B-25M	33	LPC50BU-10M	74	LTP40-M40-CSS	29	MP90-16-M16	71
LFHU12B-25M	24	LPC50BU-30M	74	LTP40-M40-CSS90	29	MP90-16-M20	74
LFHU16B-25M	24	LPC50G-10M	74	LTP40-M40-EXD	31	MP90-16-PG11	72
LFHU16B-50M	24	LPC50G-30M	74	LTP40-M40-S	27	MP90-16-PG13	72
LFHU20B-25M	24	LPC50GN-10M	74	LTP40-PG36-C	26	MP90-20-050	74
LFHU20B-50M	24	LPC50GN-30M	74	LTP50B-10M	26	MP90-20-M20	71
LFHU25B-25M	24	LPC50M-50-C	75	LTP50B-25M	26	MP90-20-PG16	72
LFHU25B-50M	24	LPC50M-M50-C90	75	LTP50-E	27	MP90-25-075	74
LFHU32B-10M	24	LPC50O-10M	74	LTP50-M50-C	26	MP90-25-M25	71
LFHU32B-25M	24	LPC50O-30M	74	LTP50-M50-C45	27	MP90-25-PG21	72
LFHU40B-10M	24	LPC63B-10M	74	LTP50-M50-C90	27	MP90-30-PG29	72
LFHU40B-25M	24	LPC63B-30M	74	LTP50-M50-CSS	29	MP90-32-100	74
LFHU50B-10M	24	LPC63BU-10M	74	LTP50-M50-CSS90	29	MP90-32-M32	71
LFHU50B-25M	24	LPC63BU-30M	74	LTP50-M50-EXD	31	MP90-32-PG29	72
LFHU63B-10M	24	LPC63G-10M	74	LTP50-M50-S	27	MP90-40-125	74
LFHU63B-25M	24	LPC63G-30M	74	LTP50-PG42-C	26	MP90-40-M40	74
LFHU75B-10M	24	LPC63GN-10M	74	LTP63B-10M	26	MP90-40-PG36	72
LFHUBR20-25M	34	LPC63GN-30M	74	LTP63B-25M	26	MP90-45-16-M20	73
LFHUBR25-25M	34	LPC63GN-30M	74	LTP63-E	27	MP90-45-20-M20	73
LFHUBR32-25M	34	LPC63M-63-C	75	LTP63-M63-C	26	MP90-45-25-M25	73
LM12-N	78	LPC63M-M63-C90	75	LTP63-M63-C45	27	MP90-45-32-M32	73
LM16-N	78	LPC63O-10M	74	LTP63-M63-C90	27	MP90-45-50-M50	74
LM20-N	78	LPC63O-30M	74	LTP63-M63-CSS	29	MP90-50-PG42	72
LM25-N	78	LTPBRDLFH20B-25M	28	LTP63-M63-CSS90	29	MP90-56-M63	74
LM32-N	78	LTPBRDLFH25B-25M	28	LTP63-M63-EXD	31	MP90-63-PG48	72
				LTP63-M63-EXG	26	MP90-90-16-M16	73
				LTP63-M64-G48-C	26	MP90-90-16-M20	73
				LTPB16-16-M16	38	MP90-90-16-PG11	73
				LTPB16-16-M16-C90	39	MP90-90-16-PG11	73
				LTPB16-16-M16-S	38	MP90-90-16-PG11	73
				LTPB16-16-M20-C	38	MP90-90-16-PG13	73

PART INDEX

NOTES

Part Number	Page	Part Number	Page
MPC90-20-M20	73	SW16	79
MPC90-20-PG16	73	SW20	79
MPC90-25-M25	73	SW25	79
MPC90-25-PG21	73	SW32	79
MPC90-32-M32	73	SW40	79
MPC90-32-PG29	73	SW50	79
MPC90-40-M40	73	SW63	79
MPC90-40-PG36	73	SWPG11	79
MPS-106-FL	77	SWPG13	79
MPS-12-M16	70	SWPG16	79
MPS-16-M16	70	SWPG21	79
MPS-16-M20	70	SWPG29	79
MPS-20-M20	70	SWPG36	79
MPS-25-M25	70	SWPG42	79
MPS-28-M25	70	SWPG48	79
MPS-32-M32	70	SWPG7	79
MPS-40-M40	70	SWPG9	79
MPS-50-M50	70	T12X12X12	70
MPS-80-FL	77	T16X16X16	70
MPS90-106-FL	77	T20X20X20	70
MPS90-16-M16	70	T25X25X25	70
MPS90-16-M20	70	TS12X12X12	70
MPS90-20-M20	70	TS16X16X12	70
MPS90-25-M25	70	TS20X25X20	70
MPS90-28-M25	70	TS25X20X25	70
MPS90-32-M32	70		
MPS90-40-M40	70		
MPS90-50-M50	70		
MPS90-80-FL	77		
MSL-21-M20	71		
MSL-21-M20-PP	71		
MSL-26-M25	71		
MSL-26-M25-PP	71		
PG11-N	78		
PG13-N	78		
PG16-N	78		
PG21-N	78		
PG29-N	78		
PG36-N	78		
PG42-N	78		
PG48-N	78		
PG7-N	78		
PG9-N	78		
RTPF20	81		
RTPF25	81		
RTPF32	81		
S-M16	78		
S-M20	78		
S-M25	78		
S-M32	78		
S-M40	78		
S-M50	78		
S-M63	78		
SP-M12	78		
SP-M16	78		
SP-M20	78		
SP-M25	78		
SP-M32	78		
SP-PG11	78		
SP-PG13	78		
SP-PG16	78		
SP-PG21	78		
SP-PG29	78		
SP-PG7	78		
SP-PG9	78		
SP-R16	66		
SP-R21	66		
SP-R28	66		
SP-R34	66		
SPW16	79		
SPW20	79		
SPW25	79		
SPW32	79		
SS-M16	78		
SS-M20	78		
SS-M25	78		
SS-M32	78		
SS-M40	78		
SS-M50	78		
SS-M63	78		
SSU10-10M	20		
SSU10-25M	20		
SSU10-M12-M	20		
SSU10-M12-S	21		
SSU12-10M	20		
SSU12-25M	20		
SSU12-M16-M	20		
SSU12-M16-S	21		
SSU12-M16-S	21		
SSU16-10M	20		
SSU16-25M	20		
SSU16-M16-M	20		
SSU16-M16-S	21		
SSU20-10M	20		
SSU20-25M	20		
SSU20-M20-M	20		
SSU20-M20-S	21		
SSU25-10M	20		
SSU25-25M	20		
SSU25-M25-M	20		
SSU25-M25-S	21		
SSU32-10M	20		
SSU32-25M	20		
SSU32-M32-M	20		
SSU32-M32-S	21		
SSU40-10M	20		
SSU40-M40-M	20		
SSU50-10M	20		
SSU50-M50-M	20		
SSU63-10M	20		
SSU63-M63-M	20		
ST16	81		
ST20	81		
ST25	81		
ST32	81		
SW12	79		

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