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.

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
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 NEW 26
LTPSS/LTPU/LTBROP/LTBRLFH - specialist liquid tight flexible coated conduit & fittings NEW 28
EXD flameproof conduit fittings NEW 30
FL/FLP - pliable steel conduit & fittings 32
Ultrasscreen® LFHP - pliable coated steel conduit & fittings NEW 33
FSB/LFHHUBRD - 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 NEW 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
FPAP/FPFR/FPI - standard & heavyweight nylon flexible conduit 51
FPR/FPADS/FPP - polypropylene, nylon & double slit flexible conduit NEW 52
FPA type fittings 54
FPA BRASS type fittings NEW 57
FPAX type fittings 60
FPAX BRASS type fittings NEW 63
FPA & FPAX T Pieces and Dividers NEW 66
Flexilok® fittings NEW 68
white products - conduit and accessories NEW 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 NEW 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 NEW 78-81
contractor packs NEW 82
energy management products NEW 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
Utilising the latest technologies in production and automation, our manufacturing expertise and efficiencies allow us to be competitive in today's 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**

- 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

**Flexicon Pty**

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

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

A prime example is Flexicon's long-life nickel plated brass fittings, precision manufactured to enable ease of assembly and installation, and proven tough in all manner of Australia's harsh industrial and environmental conditions.

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

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

**Griflex**

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

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

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

**Products include:**

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

For further information on the Griflex range of hose, tube & ducting please call +44 1675 464803 or email sales@griflex.com
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;

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?
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

**Internally Braided Liquid Tight**
- High mechanical strength
- High IP ratings
- High flexibility
- EMC Screening performance

**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

**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

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

**FPU and LTPPU - polyurethane coated conduits**
- High fatigue life
- High abrasion resistance
- Good low temperature performance
- Halogen Free

**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
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!
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

RoHS®

BS EN IEC 61386
Solutions for Defence & Marine

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:

- RoHS
- BS EN IEC 61386
- UL

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

- BS EN IEC 61386
- RoHS
- CE
- UL
- Achilles
- LINK UP
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
- **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

- RoHS
- BS EN IEC 61386
- CE
- UL
- UL

- UL
- IECEx
- FM
- UL
- UL
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.

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
- RoHS
- BS EN IEC 61386
- IECEx 0518
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

Applications include:
- Medical
- Telecoms
- Renewable energy
- Utilities
- Rail
- Processing plants
- Security

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

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
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.

<table>
<thead>
<tr>
<th>Key Features</th>
<th>Key Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• High compression strength</td>
<td>• Suitable for a range of applications</td>
</tr>
<tr>
<td>• High pull off strength</td>
<td>including heavy duty</td>
</tr>
<tr>
<td>• Wide temperature tolerances</td>
<td>• Maintains integrity of the system in</td>
</tr>
<tr>
<td>• High impact strength</td>
<td>extreme applications</td>
</tr>
<tr>
<td>• EMC screening performance</td>
<td>• Suitable for a diverse range of operating</td>
</tr>
<tr>
<td>• High IP rating - up to IP69K</td>
<td>environments</td>
</tr>
<tr>
<td></td>
<td>• Can withstand impact forces such as</td>
</tr>
<tr>
<td></td>
<td>falling objects</td>
</tr>
<tr>
<td></td>
<td>• Protection against electromagnetic</td>
</tr>
<tr>
<td></td>
<td>interference</td>
</tr>
<tr>
<td></td>
<td>• No risk of water or dust ingress</td>
</tr>
</tbody>
</table>
metallic
conduit & fittings
## Metallic Selection Application Guide

<table>
<thead>
<tr>
<th>Page number</th>
<th>Conduit System</th>
<th>IP Rating Available</th>
<th>Compression Strength kg/100mm 20mm Nominal Size</th>
<th>Pull-Off Strength kg 20mm Nominal Size</th>
<th>Minimum Bend Radius 20mm Nominal Size</th>
<th>Colours</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>FU galvanised steel</td>
<td>IP40</td>
<td>350</td>
<td>120</td>
<td>45</td>
<td>zinc</td>
</tr>
<tr>
<td>20</td>
<td>SSU stainless steel, grade 316</td>
<td>IP40</td>
<td>400</td>
<td>170</td>
<td>45</td>
<td>stainless steel</td>
</tr>
<tr>
<td>22</td>
<td>FSU galvanised steel, pvc coated</td>
<td>IPS4, IP65</td>
<td>350</td>
<td>120</td>
<td>45</td>
<td>black, grey orange</td>
</tr>
<tr>
<td>22</td>
<td>FNU galvanised steel, nylon coated</td>
<td>IPS4, IP65</td>
<td>350</td>
<td>120</td>
<td>45</td>
<td>black</td>
</tr>
<tr>
<td>24</td>
<td>LFHU galvanised steel, LFH coated</td>
<td>IPS4, IP65</td>
<td>350</td>
<td>120</td>
<td>45</td>
<td>black</td>
</tr>
<tr>
<td>24</td>
<td>FPU galvanised steel, polyurethane coated</td>
<td>IPS4, IP65</td>
<td>350</td>
<td>120</td>
<td>45</td>
<td>black</td>
</tr>
<tr>
<td>26</td>
<td>LTP galvanised steel, pvc coated, liquid tight</td>
<td>IP66, IP67, IP68, IP69K</td>
<td>400</td>
<td>130</td>
<td>65</td>
<td>black, grey orange</td>
</tr>
<tr>
<td>26</td>
<td>LTPHC galvanised steel, thermoplastic rubber, liquid tight</td>
<td>IP66, IP67, IP68, IP69K</td>
<td>400</td>
<td>130</td>
<td>65</td>
<td>black</td>
</tr>
<tr>
<td>26</td>
<td>LTPUL galvanised steel, pvc coated, liquid tight</td>
<td>IP66, IP67, IP68, IP69K</td>
<td>500</td>
<td>160</td>
<td>90</td>
<td>black</td>
</tr>
<tr>
<td>26</td>
<td>LTPLE galvanised steel, pvc coated, liquid tight</td>
<td>IP66, IP67, IP68, IP69K</td>
<td>350</td>
<td>120</td>
<td>65</td>
<td>black</td>
</tr>
<tr>
<td>28</td>
<td>LTPSS stainless steel, pvc coated, liquid tight</td>
<td>IP66, IP67, IP68, IP69K</td>
<td>400</td>
<td>130</td>
<td>65</td>
<td>black</td>
</tr>
<tr>
<td>28</td>
<td>LTPPU galvanised steel, pvc coated, liquid tight</td>
<td>IP66, IP67, IP68, IP69K</td>
<td>400</td>
<td>130</td>
<td>65</td>
<td>black</td>
</tr>
<tr>
<td>28</td>
<td>LTBRDP galvanised steel, braided core, pvc coated, liquid tight</td>
<td>IP66, IP67, IP68, IP69K</td>
<td>400</td>
<td>130</td>
<td>65</td>
<td>black</td>
</tr>
<tr>
<td>28</td>
<td>LTBRDLFH galvanised steel, braided core, LFH coated, liquid tight</td>
<td>IP66, IP67, IP68, IP69K</td>
<td>400</td>
<td>130</td>
<td>130</td>
<td>black</td>
</tr>
<tr>
<td>32</td>
<td>FL galvanised steel, pliable</td>
<td>IP40</td>
<td>300</td>
<td>30</td>
<td>35</td>
<td>zinc</td>
</tr>
<tr>
<td>32</td>
<td>FLP galvanised steel, pvc coated, pliable</td>
<td>IP66, IP67, IP68, IP69K</td>
<td>300</td>
<td>50, 100</td>
<td>35</td>
<td>black</td>
</tr>
<tr>
<td>33</td>
<td>LFHP galvanised steel, LFH coated, pliable</td>
<td>IP66, IP67, IP68, IP69K</td>
<td>570</td>
<td>50, 100</td>
<td>40</td>
<td>black</td>
</tr>
<tr>
<td>34</td>
<td>FSB galvanised steel, pvc, galv steel overbraid</td>
<td>IPS4, IP65</td>
<td>350</td>
<td>120, 300</td>
<td>45</td>
<td>zinc</td>
</tr>
<tr>
<td>34</td>
<td>LFHUBRDP galvanised steel, LFH coated, SS316 overbraid</td>
<td>IPS4, IP65</td>
<td>350</td>
<td>120, 300</td>
<td>45</td>
<td>stainless steel</td>
</tr>
<tr>
<td>36</td>
<td>FB galvanised steel, galv steel overbraid</td>
<td>IP40</td>
<td>350</td>
<td>120</td>
<td>45</td>
<td>stainless steel</td>
</tr>
<tr>
<td>36</td>
<td>FUSSB galvanised steel, SS316 overbraid</td>
<td>IP40</td>
<td>350</td>
<td>120</td>
<td>45</td>
<td>stainless steel</td>
</tr>
<tr>
<td>38</td>
<td>LTPBRD galvanised steel, rubber coated, SS316 overbraid</td>
<td>IP66, IP67, IP68, IP69K</td>
<td>400</td>
<td>350</td>
<td>65</td>
<td>stainless steel</td>
</tr>
<tr>
<td>40</td>
<td>FPRSS PA6 corrugated, SS316 overbraid</td>
<td>IP67</td>
<td>75</td>
<td>100</td>
<td>45</td>
<td>stainless steel</td>
</tr>
<tr>
<td>40</td>
<td>FPRTC PA6 corrugated, tinned copper overbraid</td>
<td>IP67</td>
<td>75</td>
<td>75</td>
<td>45</td>
<td>tin</td>
</tr>
<tr>
<td>40</td>
<td>FPISS PA12 corrugated, SS316 overbraid</td>
<td>IP67</td>
<td>45</td>
<td>100</td>
<td>45</td>
<td>stainless steel</td>
</tr>
<tr>
<td>40</td>
<td>FPIHSS PA12 corrugated, SS316 overbraid</td>
<td>IP67</td>
<td>60</td>
<td>100</td>
<td>45</td>
<td>stainless steel</td>
</tr>
</tbody>
</table>

**Conduit Systems**

- **FU**: Galvanised steel
- **SSU**: Stainless steel, grade 316
- **FSU**: Galvanised steel, PVC coated
- **FNU**: Galvanised steel, nylon coated
- **LFHU**: Galvanised steel, LFH coated
- **FPU**: Galvanised steel, polyurethane coated
- **LTP**: Galvanised steel, pvc coated, liquid tight
- **LTPHC**: Galvanised steel, thermoplastic rubber, liquid tight
- **LTPUL**: Galvanised steel, pvc coated, liquid tight
- **LTPLE**: Galvanised steel, pvc coated, liquid tight
- **LTPSS**: Stainless steel, pvc coated, liquid tight
- **LTPPU**: Galvanised steel, polyurethane coated, liquid tight
- **LTBRDP**: Galvanised steel, braided core, pvc coated, liquid tight
- **LTBRDLFH**: Galvanised steel, braided core, LFH coated, liquid tight
- **FL**: Galvanised steel, pliable
- **FLP**: Galvanised steel, pvc coated, pliable
- **LFHP**: Galvanised steel, LFH coated, pliable
- **FSB**: Galvanised steel, pvc, galv steel overbraid
- **LFHUBRDP**: Galvanised steel, LFH coated, SS316 overbraid
- **FB**: Galvanised steel, galv steel overbraid
- **FUSSB**: Galvanised steel, SS316 overbraid
- **LTPBRD**: Galvanised steel, rubber coated, SS316 overbraid
- **FPRSS**: PA6 corrugated, SS316 overbraid
- **FPRTC**: PA6 corrugated, tinned copper overbraid
- **FPISS**: PA12 corrugated, SS316 overbraid
- **FPIHSS**: PA12 corrugated, SS316 overbraid

**IP Ratings**

- **IP40**: 350, 120, 45
- **IP54, IP65**: 350, 120, 45
- **IP66, IP67, IP68, IP69K**: 400, 130, 65
- **IP66, IP67, IP68, IP69K**: 400, 130, 130
- **IP66, IP67, IP68, IP69K**: 570, 50, 100
- **IP66, IP67, IP68, IP69K**: 400, 130
- **IP66, IP67, IP68, IP69K**: 75, 100
- **IP67**: 75, 75
- **IP67**: 45, 100
- **IP67**: 60, 100

**Colours**

- Zinc
- Stainless steel
- Black
- Grey
- Orange
- Black
- Zinc
- Stainless steel
- Black
- Black
- Black
- Zinc
- Black
- Black
- Black
- Black
- Black
- Black
- Black
- Zinc
- Black
- Black
- Stainless steel
- Stainless steel
- Stainless steel
- Stainless steel
- Stainless steel
- Stainless steel
- Stainless steel
- Stainless steel
- Stainless steel
- Stainless steel
- Stainless steel
## Metallic Conduit and Fittings

<table>
<thead>
<tr>
<th>High Fatigue Life</th>
<th>Temperature Range</th>
<th>Flexible</th>
<th>Pliable</th>
<th>Low Fire Hazard</th>
<th>Halogen Free</th>
<th>Self Extinguishing</th>
<th>EMC Screening @1MHz</th>
<th>High Abrasion Resistance</th>
<th>High UV Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>-100°C to +300°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>-100°C to +400°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>-15°C to +70°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>-40°C to +120°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>-25°C to +90°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>-40°C to +80°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>-20°C to +105°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>-45°C to +135°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>-15°C to +75°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>-15°C to +70°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>-20°C to +105°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>-40°C to +80°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>-20°C to +105°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>60dB</td>
<td>☐</td>
</tr>
<tr>
<td>-25°C to +90°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>60dB</td>
<td>☐</td>
</tr>
<tr>
<td>-40°C to +120°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>70dB</td>
<td>☐</td>
</tr>
<tr>
<td>-15°C to +70°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>70dB</td>
<td>☐</td>
</tr>
<tr>
<td>-25°C to +90°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>70dB</td>
<td>☐</td>
</tr>
<tr>
<td>-15°C to +70°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>55dB</td>
<td>☐</td>
</tr>
<tr>
<td>-25°C to +90°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>49dB</td>
<td>☐</td>
</tr>
<tr>
<td>-100°C to +300°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>55dB</td>
<td>☐</td>
</tr>
<tr>
<td>-100°C to +300°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>49dB</td>
<td>☐</td>
</tr>
<tr>
<td>-45°C to +135°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>49dB</td>
<td>☐</td>
</tr>
<tr>
<td>-40°C to +120°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>49dB</td>
<td>☐</td>
</tr>
<tr>
<td>-40°C to +120°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>67dB</td>
<td>☐</td>
</tr>
<tr>
<td>-50°C to +110°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>49dB</td>
<td>☐</td>
</tr>
<tr>
<td>-50°C to +110°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>49dB</td>
<td>☐</td>
</tr>
<tr>
<td>-90°C to +110°C</td>
<td></td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>49dB</td>
<td>☐</td>
</tr>
</tbody>
</table>

- **FU**: galvanized steel
- **SSU**: stainless steel, grade 316
- **FSU**: galvanized steel, PVC coated
- **FNU**: galvanized steel, nylon coated
- **LFHU**: galvanized steel, LFH coated
- **FPU**: galvanized steel, polyurethane coated
- **LTP**: galvanized steel, PVC coated, liquid tight
- **LTPHC**: galvanized steel, thermoplastic rubber, liquid tight
- **LTPUL**: galvanized steel, PVC coated, liquid tight
- **LTPE**: galvanized steel, PVC coated, liquid tight
- **LTPSS**: stainless steel, PVC coated, liquid tight
- **LTPPU**: galvanized steel, polyurethane coated, liquid tight
- **LTBRDP**: galvanized steel, braided core, PVC coated, liquid tight
- **LTBRDLFH**: galvanized steel, braided core, LFH coated, liquid tight
- **FL**: galvanized steel, pliable
- **FLP**: galvanized steel, PVC coated, pliable
- **LFH**: galvanized steel, LFH coated, pliable
- **FSB**: galvanized steel, PVC, galvanized steel overbraid
- **LFHUBRD**: galvanized steel, LFH coated, SS16 overbraid
- **FB**: galvanized steel, galvanized steel overbraid
- **FUSSB**: galvanized steel, SS316 overbraid
- **LTPBRD**: galvanized steel, rubber coated, SS316 overbraid
- **FPRSS**: PA6 corrugated, SS316 overbraid
- **FPRTC**: PA6 corrugated, tinned copper overbraid
- **FPISS**: PA12 corrugated, SS316 overbraid
- **FPIHSS**: PA12 corrugated, SS316 overbraid

### Technical Guidance
- **91**: Technical guidance

### Low Fire Hazard
- **94**: Low fire hazard

### Thread Data
- **90**: Thread data
• 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
See Pg 20, 21, 22, 23, 24 & 25
See Pg 20 & 21

Insert  Cable Gland  Clips  Locknuts
See Pg 78 & 79
## Liquid Tight Fittings

- LTP Fitting with Strain Relief
- EXD Flameproof Barrier Glands
- FL Straight
- FLP Straight
- ULTRASCREEN® External
- ULTRASCREEN® Internal

## Liquid Tight Stainless Steel

- See Pg 26 & 27
- See Pg 29

## Braided Fittings

- See Pg 34 & 36

## Braided Compression Fittings

- See Pg 35, 38, 39, 40 & 41

## Braided Fitting with Strain Relief

- See Pg 43

## Accessories

- Elbows
- Couplers
- Reducers & Adaptors

- See Pg 78 & 79
- See Pg 80
**FU & SSU system**
galvanised steel and stainless steel

**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.

---

### CONDUIT

<table>
<thead>
<tr>
<th>FU</th>
<th>part number</th>
<th>reel length (m)</th>
<th>outside dia (mm)</th>
<th>inside dia (mm)</th>
<th>min inside bend radius (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>FU10+</td>
<td>25, 50</td>
<td>9.0</td>
<td>6.8</td>
<td>25</td>
</tr>
<tr>
<td>12</td>
<td>FU12</td>
<td>25, 50</td>
<td>13.0</td>
<td>10.2</td>
<td>30</td>
</tr>
<tr>
<td>16</td>
<td>FU16</td>
<td>10, 25, 50</td>
<td>16.0</td>
<td>13.0</td>
<td>40</td>
</tr>
<tr>
<td>20</td>
<td>FU20</td>
<td>10, 25, 50</td>
<td>20.5</td>
<td>16.9</td>
<td>45</td>
</tr>
<tr>
<td>25</td>
<td>FU25</td>
<td>10, 25, 50</td>
<td>25.0</td>
<td>21.1</td>
<td>55</td>
</tr>
<tr>
<td>32</td>
<td>FU32</td>
<td>10, 25</td>
<td>32.0</td>
<td>28.1</td>
<td>60</td>
</tr>
<tr>
<td>40</td>
<td>FU40</td>
<td>10</td>
<td>42.5</td>
<td>37.6</td>
<td>80</td>
</tr>
<tr>
<td>50</td>
<td>FU50</td>
<td>10</td>
<td>53.0</td>
<td>48.4</td>
<td>90</td>
</tr>
<tr>
<td>63</td>
<td>FU63</td>
<td>10</td>
<td>62.5</td>
<td>57.5</td>
<td>115</td>
</tr>
<tr>
<td>75</td>
<td>FU75</td>
<td>10</td>
<td>77.0</td>
<td>70.0</td>
<td>150</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SSU</th>
<th>part number</th>
<th>reel length (m)</th>
<th>outside dia (mm)</th>
<th>inside dia (mm)</th>
<th>min inside bend radius (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>SSU10+</td>
<td>10, 25</td>
<td>9.0</td>
<td>6.8</td>
<td>25</td>
</tr>
<tr>
<td>12</td>
<td>SSU12</td>
<td>10, 25</td>
<td>13.0</td>
<td>10.2</td>
<td>30</td>
</tr>
<tr>
<td>16</td>
<td>SSU16</td>
<td>10, 25</td>
<td>16.0</td>
<td>13.0</td>
<td>40</td>
</tr>
<tr>
<td>20</td>
<td>SSU20</td>
<td>10, 25, 50</td>
<td>20.5</td>
<td>16.9</td>
<td>45</td>
</tr>
<tr>
<td>25</td>
<td>SSU25</td>
<td>10, 25, 50</td>
<td>25.0</td>
<td>21.1</td>
<td>55</td>
</tr>
<tr>
<td>32</td>
<td>SSU32</td>
<td>10, 25</td>
<td>32.0</td>
<td>28.1</td>
<td>60</td>
</tr>
<tr>
<td>40</td>
<td>SSU40</td>
<td>10, 25, 50</td>
<td>42.5</td>
<td>37.6</td>
<td>80</td>
</tr>
<tr>
<td>50</td>
<td>SSU50</td>
<td>10, 25</td>
<td>53.0</td>
<td>48.4</td>
<td>90</td>
</tr>
<tr>
<td>63</td>
<td>SSU63*</td>
<td>10, 25</td>
<td>62.5</td>
<td>57.5</td>
<td>115</td>
</tr>
</tbody>
</table>

### FITTINGS

#### 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.

<table>
<thead>
<tr>
<th>part number</th>
<th>metric thread</th>
<th>PG thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>FU10-M12-M</td>
<td>FU10-PG7-M</td>
<td>SSU10-M12-M</td>
</tr>
<tr>
<td>FU12-M16-M</td>
<td>FU12-PG9-M</td>
<td>SSU12-M16-M</td>
</tr>
<tr>
<td>FU16-M20-M</td>
<td>FU16-PG11-M</td>
<td>SSU16-M16-M</td>
</tr>
<tr>
<td>FU20-M25-M</td>
<td>FU20-PG13-M</td>
<td>SSU20-M16-M</td>
</tr>
<tr>
<td>FU40-M36-M</td>
<td>FU40-PG36-M</td>
<td>SSU40-M36-M</td>
</tr>
<tr>
<td>FU50-M42-M</td>
<td>FU50-PG42-M</td>
<td>SSU50-M50-M</td>
</tr>
<tr>
<td>FU63-M63-M</td>
<td>FU63-PG42-M</td>
<td>SSU63-M63-M</td>
</tr>
</tbody>
</table>

#### 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.

<table>
<thead>
<tr>
<th>part number</th>
<th>metric thread</th>
<th>PG thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>FU10-M12-M</td>
<td>FU10-PG7-M</td>
<td>SSU10-M12-M</td>
</tr>
<tr>
<td>FU12-M16-M</td>
<td>FU12-PG9-M</td>
<td>SSU12-M16-M</td>
</tr>
<tr>
<td>FU16-M20-M</td>
<td>FU16-PG11-M</td>
<td>SSU16-M16-M</td>
</tr>
<tr>
<td>FU20-M25-M</td>
<td>FU20-PG13-M</td>
<td>SSU20-M16-M</td>
</tr>
<tr>
<td>FU40-M36-M</td>
<td>FU40-PG36-M</td>
<td>SSU40-M36-M</td>
</tr>
<tr>
<td>FU50-M42-M</td>
<td>FU50-PG42-M</td>
<td>SSU50-M50-M</td>
</tr>
<tr>
<td>FU63-M63-M</td>
<td>FU63-PG42-M</td>
<td>SSU63-M63-M</td>
</tr>
</tbody>
</table>

#### 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.

<table>
<thead>
<tr>
<th>part number</th>
<th>metric thread</th>
<th>PG thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>FU10-M12-S</td>
<td>FU10-PG7-S</td>
<td>SSU10-M12-S</td>
</tr>
<tr>
<td>FU12-M16-S</td>
<td>FU12-PG9-S</td>
<td>SSU12-M16-S</td>
</tr>
<tr>
<td>FU16-M20-S</td>
<td>FU16-PG11-S</td>
<td>SSU16-M16-S</td>
</tr>
<tr>
<td>FU20-M25-S</td>
<td>FU20-PG13-S</td>
<td>SSU20-M16-S</td>
</tr>
<tr>
<td>FU32-M32-S</td>
<td>FU32-PG29-S</td>
<td>SSU32-M32-S</td>
</tr>
<tr>
<td>FU40-M36-S</td>
<td>FU40-PG36-S</td>
<td>SSU40-M36-S</td>
</tr>
<tr>
<td>FU50-M42-S</td>
<td>FU50-PG42-S</td>
<td>SSU50-M50-S</td>
</tr>
<tr>
<td>FU63-M63-S</td>
<td>FU63-PG42-S</td>
<td>SSU63-M63-S</td>
</tr>
</tbody>
</table>

### ORDERING NOTES

- Add reel length e.g.: 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**

```
<table>
<thead>
<tr>
<th>conduit</th>
<th>thread</th>
<th>fitting type</th>
</tr>
</thead>
<tbody>
<tr>
<td>FU10+</td>
<td>M</td>
<td>M-SS</td>
</tr>
<tr>
<td>SSU10+</td>
<td>S</td>
<td>S</td>
</tr>
</tbody>
</table>
```

---

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

**+ Double interlock section**

---
• 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

**System Properties**

- **S-SS**
  - 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.

- **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.

- **F**
  - 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.

- **FCC**
  - Plated steel P clip with PVC liner stainless steel P clips
  - P clip to support conduit.

- **90° elbow**
  - Internal and external threaded nickel plated brass elbow
  - 90° elbow which can be screwed onto external threaded fittings.

---

**Standards**

- BS EN IEC 61386

**Technical Drawing**

**STANDARDS**

**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.

FITTINOS

**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.

**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.

**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.

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

How to read the fittings code
- *FSU10B+ 10, 25, 50 M10.0 6.8 25
- *FSU25B 10, 25, 50 M17.0 13.0 40
- *FSU32B 10, 25 M21.5 16.9 45
- *FSU408 10, 25 M26.0 21.1 55
- *FSU50B 10, 25 M34.0 28.1 60
- *FSU63B 10 M44.5 37.6 80
- *FSU75B 10 M55.0 48.4 90

* 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
• 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)

- 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 elbow nickel plated brass
  Multipart 90° compression fitting including elastomeric seal. The external thread swivels about the main body even after tightening.

- 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.

---

**STANDARDS**

BS EN IEC 61386

**TECHNICAL DRAWING**

RoHS
**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.

---

### LFHU

**Construction:** Galvanised steel LFH coated

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

---

### FPU

**Construction:** Galvanised steel polyurethane coated

---

**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

---

**How to read the fittings code**

- **Part number**
- **Thread type**
- **Thread size (mm)**

---

**New**

- 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
### 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

### Compliant Fittings

#### 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 Elbow Nickel Plated Brass
- Multipart 90° compression fitting including elastomeric seal.
- The external thread swivels about the main body even after tightening.

#### Nickel Plated Brass Coupler
- Multi part compression coupler including nylon seals to join 2 conduits.

#### Insert Nickel Plated Brass
- Single part, machined insert to cap end of conduit.

### Technical Drawing

#### Part Numbers

<table>
<thead>
<tr>
<th>Metric Thread Part Number</th>
<th>Metric Thread Part Number</th>
<th>Metric Thread Part Number</th>
<th>Metric Thread Part Number</th>
<th>Metric Thread Part Number</th>
<th>Metric Thread Part Number</th>
<th>Metric Thread Part Number</th>
<th>Metric Thread Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSU50-M50-F</td>
<td>FSU50-M50-F</td>
<td>FSU50-M50-F</td>
<td>FSU50-M50-F</td>
<td>FSU50-M50-F</td>
<td>FSU50-M50-F</td>
<td>FSU50-M50-F</td>
<td>FSU50-M50-F</td>
</tr>
<tr>
<td>FSU63-M63-F</td>
<td>FSU63-M63-F</td>
<td>FSU63-M63-F</td>
<td>FSU63-M63-F</td>
<td>FSU63-M63-F</td>
<td>FSU63-M63-F</td>
<td>FSU63-M63-F</td>
<td>FSU63-M63-F</td>
</tr>
<tr>
<td>FSU75-M75-F</td>
<td>FSU75-M75-F</td>
<td>FSU75-M75-F</td>
<td>FSU75-M75-F</td>
<td>FSU75-M75-F</td>
<td>FSU75-M75-F</td>
<td>FSU75-M75-F</td>
<td>FSU75-M75-F</td>
</tr>
</tbody>
</table>

### Standards
- BS EN IEC 61386

*Refer to conduit properties for applicable standards*
LTP, LTPHC, LTPUL & LTPE
galvanised steel, plastic coated liquid tight

**CONDUIT**

**LTP**

- **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

**LTPHC**

- **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.

**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**

- **external thread nickel plated brass**
- Multipart compression fitting including nylon seal. Can be used for knockout or threaded entries as fitting rotates until tightened.

---

**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**

- **LTP20-M20-C**
  - Outside dia (mm): 20
  - US trade size (”): M20
  - Inside dia (mm): 15
  - Min inside bend radius (mm): 20

---

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

---

**How to read the fittings code**

- **LTP20-M20-C**
  - Metric thread part number
  - PG thread part number
  - External thread part number
  - Internal thread part number

---

**Note:** Stainless steel fittings also available see page 29
• 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 (LTPUL)
  -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

### STANDARDS

- BS EN IEC 61386

### TECHNICAL DRAWING

- Diagram of conduit and fittings

### Table

<table>
<thead>
<tr>
<th>Metric Size (mm)</th>
<th>Part Number</th>
<th>Part Number</th>
<th>Part Number</th>
<th>Part Number</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>LTP10-E</td>
<td>FCC10</td>
<td>FCC10-SS*</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>LTP12-E</td>
<td>FCC12</td>
<td>FCC12-SS*</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>LTP16-E</td>
<td>FCC16</td>
<td>FCC16-SS</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>LTP20-E</td>
<td>FCC20</td>
<td>FCC20-SS</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>LTP32-E</td>
<td>FCC32</td>
<td>FCC32-SS</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>LTP40-E</td>
<td>FCC40</td>
<td>FCC40-SS</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>LTP50-E</td>
<td>FCC50</td>
<td>FCC50-SS*</td>
<td>50</td>
<td></td>
</tr>
</tbody>
</table>

* refer to conduit properties for applicable standards
Specialist liquid tight products

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

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

### 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.

**LTTPU**

- **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.

### FITTINGS

**LTBRDP**

- **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.

**LTBRDLFH**

- **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.

### 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 LTTPU ie B=Black, BU=Blue eg. LTTPPU20B is Black**
- * Indicate 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

### CONDUIT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Nominal Size (mm)</th>
<th>US Trade Size</th>
<th>Outside Dia (mm)</th>
<th>Inside Dia (mm)</th>
<th>Min. Inside Bend Radius (mm)</th>
<th>Min. Inside Bend Radius (mm)</th>
<th>Part Number</th>
<th>Reel Length (m)</th>
<th>Reel Length (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>1/4</td>
<td>11.8</td>
<td>7.0</td>
<td></td>
<td></td>
<td>LTPPU10*</td>
<td>25 35</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>5/32</td>
<td>14.2</td>
<td>10.0</td>
<td></td>
<td></td>
<td>LTPPU12*</td>
<td>25 40</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>1/2</td>
<td>17.8</td>
<td>12.6</td>
<td>25</td>
<td>35</td>
<td>LTPPU16*</td>
<td>25 45</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>3/4</td>
<td>21.1</td>
<td>16.0</td>
<td>25</td>
<td>65</td>
<td>LTPSU20*</td>
<td>25 65</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>1</td>
<td>26.4</td>
<td>21.0</td>
<td>25</td>
<td>100</td>
<td>LTPSU25*</td>
<td>25 100</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>11/4</td>
<td>33.1</td>
<td>26.5</td>
<td>25</td>
<td>135</td>
<td>LTPSU32*</td>
<td>25 135</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>11/2</td>
<td>41.6</td>
<td>35.4</td>
<td>25</td>
<td>165</td>
<td>LTPSU40*</td>
<td>10 175</td>
<td>10 140</td>
</tr>
<tr>
<td>50</td>
<td>11/4</td>
<td>47.9</td>
<td>40.4</td>
<td>25</td>
<td>200</td>
<td>LTPSU50*</td>
<td>10 230</td>
<td>10 180</td>
</tr>
<tr>
<td>63</td>
<td>2</td>
<td>59.7</td>
<td>51.6</td>
<td></td>
<td></td>
<td>LTPSU63*</td>
<td>10 280</td>
<td></td>
</tr>
</tbody>
</table>

How to read the fittings code

LTP20-M20-C

<table>
<thead>
<tr>
<th>Metric thread number</th>
<th>PG thread number</th>
<th>NPT thread number</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTP10-M12-C</td>
<td>LTP12-PG9-C</td>
<td>LTP16-050-C</td>
</tr>
<tr>
<td>LTP12-M16-C</td>
<td>LTP16-PG11-C</td>
<td>LTP20-050-C</td>
</tr>
<tr>
<td>LTP16-M20-C</td>
<td>LTP16-PG13-C</td>
<td>LTP25-075-C</td>
</tr>
<tr>
<td>LTP20-M25-C</td>
<td>LTP25-PG21-C</td>
<td>LTP32-PG36-C</td>
</tr>
<tr>
<td>LTP25-M32-C</td>
<td>LTP32-PG29-C</td>
<td>LTP40-PG42-C</td>
</tr>
<tr>
<td>LTP32-M40-C</td>
<td>LTP40-PG48-C</td>
<td></td>
</tr>
<tr>
<td>LTP40-M50-C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LTP50-M63-C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**How to order:****

- 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 LTTPU ie B=Black, BU=Blue eg. LTTPPU20B is Black
- * Indicate parts made to order on request and may be subject to MOQ and lead time

**How to read the fittings code:****

LTP20-M20-C

- **Conduit thread fitting type**
• 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 (LTTPU)
• UV resistant and suitable for external use
• High abrasion, high fatigue life (LTTPU)
• Vibration and shock tested to EN61373 Cat 2
• Provides EMC screening (LTBRDP, LTBRDLFH)
• Compliant to LUL Std 1-085 (LTBRDLFH)

**LTBRDP system**
galv steel, galv steel braid, pvc coated liquid tight

**LTBRDLFH system**
galv steel, galv steel braid, LFH coated liquid tight

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

**C-90-SS**
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**

---

**STANDARDS**

BS EN IEC 61386

---

**TECHNICAL DRAWING**

---

* refer to conduit properties for applicable standards
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 converters and stop plugs on request
- Face sealing washers are sold separately
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

<table>
<thead>
<tr>
<th>Hazardous area Approvals</th>
<th>ATEX APPROVAL: Sira Certificate No Sira 10ATEX1172X</th>
<th>Ex d FLAMEPROOF Ex d IIC Gb EN 60079-1 2007</th>
<th>Ex e INCREASED SAFETY Ex e IIC Gb EN 60079-7 2007</th>
<th>Ex t DUST IGNITION PROTECTION Ex ta IIIC Da IP6X IEC 60079-31 2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>IECEx APPROVAL:</td>
<td>Sira Certificate No IECEx SIR 10.0094X</td>
<td>Ex d IIC Gb IEC 60079-1 2007</td>
<td>Ex e IIC Gb IEC 60079-7 2006-7</td>
<td>Ex ta IIIC Da IP6X IEC 60079-31 2008</td>
</tr>
</tbody>
</table>

LTP - EXD

**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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>To fit Conduit Size (mm)</th>
<th>Thread Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTP16-M20-EXD</td>
<td>16</td>
<td>M20</td>
</tr>
<tr>
<td>LTP20-M20-EXD</td>
<td>20</td>
<td>M20</td>
</tr>
<tr>
<td>LTP25-M25-EXD</td>
<td>25</td>
<td>M25</td>
</tr>
<tr>
<td>LTP32-M32-EXD</td>
<td>32</td>
<td>M32</td>
</tr>
<tr>
<td>LTP40-M40-EXD</td>
<td>40</td>
<td>M40</td>
</tr>
<tr>
<td>LTP50-M50-EXD</td>
<td>50</td>
<td>M50</td>
</tr>
<tr>
<td>LTP63-M63-EXD</td>
<td>63</td>
<td>M63</td>
</tr>
</tbody>
</table>

**STANDARDS**

CE

BS EN IEC 61386

RoHS
**FL system**

galvanised steel pliable

**FLP system**
galvanised steel pvc coated, pliable

---

**FL**

**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

---

**C Type**

**external thread nickel plated brass**

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

---

**FLP**

**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

---

**STANDARDS**

* refer to conduit properties for applicable standards
**Flexicon UltraScreen™**

**LFHP system**
galvanised steel extra LFH coated, pliable

**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

**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

**FITTINGS**

<table>
<thead>
<tr>
<th><strong>C-HS</strong></th>
<th><strong>F-HS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EXTERNAL THREAD</strong></td>
<td><strong>INTERNAL THREAD</strong></td>
</tr>
<tr>
<td>brass - high specification</td>
<td>brass - high specification</td>
</tr>
<tr>
<td>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.</td>
<td>Multipart compression fitting including serrated nylon seal.</td>
</tr>
</tbody>
</table>

**EMC SCREENING PERFORMANCE**

- **Conduit**
- **Fitting type**
- **Flange**
- **Thread**
- **Part number**
- **Flange part number**

**CONDUIT**

<table>
<thead>
<tr>
<th><strong>LFHP</strong></th>
<th><strong>C-HS</strong></th>
<th><strong>F-HS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>part number</strong></td>
<td><strong>metric thread</strong></td>
<td><strong>part number</strong></td>
</tr>
<tr>
<td><strong>FLP</strong></td>
<td><strong>FLP16-M16-C-HS</strong></td>
<td><strong>FLP16-M16-F-HS</strong></td>
</tr>
<tr>
<td><strong>part number</strong></td>
<td><strong>FLP20-M20-C-HS</strong></td>
<td><strong>FLP20-M20-F-HS</strong></td>
</tr>
<tr>
<td><strong>part number</strong></td>
<td><strong>FLP25-M25-C-HS</strong></td>
<td><strong>FLP25-M25-F-HS</strong></td>
</tr>
<tr>
<td><strong>part number</strong></td>
<td><strong>FLP32-M32-C-HS</strong></td>
<td><strong>FLP32-M32-F-HS</strong></td>
</tr>
<tr>
<td><strong>part number</strong></td>
<td><strong>FLP40-M40-C-HS</strong></td>
<td><strong>FLP40-M40-F-HS</strong></td>
</tr>
<tr>
<td><strong>part number</strong></td>
<td><strong>FLP50-M50-C-HS</strong></td>
<td><strong>FLP50-M50-F-HS</strong></td>
</tr>
</tbody>
</table>

**How to read the fittings code**

- **Conduit thread fitting type**
- **FLP20-M20-C**

<table>
<thead>
<tr>
<th><strong>Fitting</strong></th>
<th><strong>Part number</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LFHP20B</strong></td>
<td>25 40 17.8 11.6</td>
</tr>
<tr>
<td><strong>LFHP25B</strong></td>
<td>25 55 20.9 14.6</td>
</tr>
<tr>
<td><strong>LFHP32B</strong></td>
<td>25 65 27.3 20.4</td>
</tr>
<tr>
<td><strong>LFHP40B</strong></td>
<td>25 85 34.0 26.7</td>
</tr>
<tr>
<td><strong>LFHP50B</strong></td>
<td>25 130 53.1 45.3</td>
</tr>
</tbody>
</table>
**FSB system**
Galvanised steel core, pvc coated, galvanised steel overbraid

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

---

**CONDUIT**

<table>
<thead>
<tr>
<th>Outside Dia (mm)</th>
<th>Inside Dia (mm)</th>
<th>Min Inside Bend Radius (mm)</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>16</td>
<td>30</td>
<td>FSB12-M16-M</td>
</tr>
<tr>
<td>16</td>
<td>18.2</td>
<td>36</td>
<td>FSB16-M16-M</td>
</tr>
<tr>
<td>20</td>
<td>22.7</td>
<td>45</td>
<td>FSB20-M20-M</td>
</tr>
<tr>
<td>25</td>
<td>27.2</td>
<td>55</td>
<td>FSB25-M25-M</td>
</tr>
<tr>
<td>32</td>
<td>35.2</td>
<td>70</td>
<td>FSB32-M32-M</td>
</tr>
<tr>
<td>40</td>
<td>45.7</td>
<td>80</td>
<td>FSB40-M40-M</td>
</tr>
<tr>
<td>50</td>
<td>57.7</td>
<td>90</td>
<td>FSB50-M50-M</td>
</tr>
</tbody>
</table>

**FITTINGS**

**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.

---

**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

**STANDARDS**

- **BS EN IEC 61386**
- **EMC SCREEN**
- **EMC SCREEN**
- **ENHANCED EMC SCREEN**
- **SUPER EMC SCREEN**

---

*refer to conduit properties for applicable standards*
• 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.

EMC SCREENING PERFORMANCE

TECHNICAL DRAWING
### FB system
- **Galvanised steel core**
- **Galvanised steel overbraid**

### FUSSB system
- **Galvanised steel core**
- **Stainless steel overbraid**

#### 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.

#### FITTINGS

**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.

#### CONDUIT FITTINGS

<table>
<thead>
<tr>
<th>Nominal Size (mm)</th>
<th>FB</th>
<th>FUSSB</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>FB12</td>
<td>FUSSB12</td>
</tr>
<tr>
<td>16</td>
<td>FB16</td>
<td>FUSSB16</td>
</tr>
<tr>
<td>20</td>
<td>FB20</td>
<td>FUSSB20</td>
</tr>
<tr>
<td>25</td>
<td>FB25</td>
<td>FUSSB25</td>
</tr>
<tr>
<td>32</td>
<td>FB32</td>
<td>FUSSB32</td>
</tr>
<tr>
<td>40</td>
<td>FB40</td>
<td>FUSSB40</td>
</tr>
<tr>
<td>50</td>
<td>FB50</td>
<td>FUSSB50</td>
</tr>
</tbody>
</table>

#### STANDARDS

- **BS EN IEC 61386**

### 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

### METALLIC CONDUIT & FITTINGS

- **Construction:** Galvanised steel, helically wound conduit with galvanised steel overbraid. Colour zinc, self colour.
- **Typical Applications:** Industrial environments and high temperatures.

- **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.

- **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.

#### METALLIC CONDUIT FITTINGS

<table>
<thead>
<tr>
<th>Nominal Size (mm)</th>
<th>FB</th>
<th>FUSSB</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>FB12</td>
<td>FUSSB12</td>
</tr>
<tr>
<td>16</td>
<td>FB16</td>
<td>FUSSB16</td>
</tr>
<tr>
<td>20</td>
<td>FB20</td>
<td>FUSSB20</td>
</tr>
<tr>
<td>25</td>
<td>FB25</td>
<td>FUSSB25</td>
</tr>
<tr>
<td>32</td>
<td>FB32</td>
<td>FUSSB32</td>
</tr>
<tr>
<td>40</td>
<td>FB40</td>
<td>FUSSB40</td>
</tr>
<tr>
<td>50</td>
<td>FB50</td>
<td>FUSSB50</td>
</tr>
</tbody>
</table>

**How to read the fittings code**

- **FB**
  - Conduit thread fitting type

**STANDARDS**

- **CE**
- **RoHS**
- **BS EN IEC 61386**

**www.flexicon.uk.com**

- Typical Applications: Industrial environments and high temperatures.

- 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.

- 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.

**Typical Applications**

- Industrial environments and high temperatures.
- Underground stations where LFH properties and EMC screening are required.

**Construction**

- Galvanised steel, helically wound conduit with galvanised steel overbraid.
- Stainless steel overbraid.

**Typical Applications**

- Industrial environments and high temperatures.
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

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.

<table>
<thead>
<tr>
<th>hole size (mm)</th>
<th>part number</th>
<th>metric thread part number</th>
<th>nominal size (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>FB12-P</td>
<td>BM00-16M</td>
<td>12</td>
</tr>
<tr>
<td>16</td>
<td>FB16-P</td>
<td>BM00-16M</td>
<td>16</td>
</tr>
<tr>
<td>20</td>
<td>FB20-P</td>
<td>BM00-20M</td>
<td>20</td>
</tr>
<tr>
<td>25</td>
<td>FB25-P</td>
<td>BM00-25M</td>
<td>25</td>
</tr>
<tr>
<td>32</td>
<td>FB32-P</td>
<td>BM00-32M</td>
<td>32</td>
</tr>
<tr>
<td>40</td>
<td>FB40-P</td>
<td>BM00-40M</td>
<td>40</td>
</tr>
<tr>
<td>51</td>
<td>FB50-P</td>
<td>BM00-50M</td>
<td>51</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-M16</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>B-M16</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>B-M20</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>B-M25</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>B-M32</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>B-M40</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>B-M50</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>S-M16</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>B-M16</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>B-M20</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>B-M25</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>B-M32</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>B-M40</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>B-M50</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC12</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC16</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC16-SS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC16</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC16-SS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC16</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC20</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC20-SS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC20</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC25</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC25-SS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC25</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC32</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC32-SS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC32</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC40</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC40-SS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC40</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC50</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC50-SS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>FCC50</td>
<td></td>
</tr>
</tbody>
</table>

EMC SCREENING PERFORMANCE

TECHNICAL DRAWING

FCC12-SS*
FCC16-SS*
FCC50-SS*
**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**

**C**

*external thread nickel plated brass*

Multpart 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*

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

---

**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

---

**STANDARDS**

BS EN IEC 61386

RoHS

---

**METALLIC CONDUIT & FITTINGS**

www.flexicon.uk.com
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.

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

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

---

**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.

**FPRTC**
- **Construction:** Standard weight, extra low fire hazard, corrugated nylon (PA6), with tinned copper overbraid.
- **Typical Applications:** Inside railway carriages where screening is required.

**FPISS**
- **Construction:** Standard weight, extra low fire hazard, corrugated nylon (PA6), with stainless steel (316) overbraid.
- **Typical Applications:** Moving machinery where low temperatures, abrasion and impacts occur.

**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**

**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.

---

**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

---

**STANDARDS**

- **BS EN IEC 61386**
- **UL**
- **ERIKS**
- **UL/CSA**
- **ETL**
- **CE**
- **RoHS**

* Refer to conduit properties for applicable standards
**FPISS** system  
corrugated nylon, stainless steel overbraid

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

---

**STANDARD LOW FIRE HAZARD**
- Extra low fire hazard
- Provides EMC screening

**INHERENT LOW FIRE HAZARD**
- Extra low fire hazard
- Provides EMC screening

**EMC SCREEN**

**SUPER EMC SCREEN**

---

**FPRTC & FPRSS**
- 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 vandalism
- Vibration and shock tested to EN61373 Cat 2

---

**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.

---

**properties**

**FPRTC, FPRSS, 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 vandalism
- Vibration and shock tested to EN61373 Cat 2

---

**EMC SCREENING PERFORMANCE**

**TECHNICAL DRAWING**
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.

**Table: FTCB**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Reel Length (m)</th>
<th>Min. OD (mm)</th>
<th>Usable Ø Min. (mm)</th>
<th>Usable Ø Max. (mm)</th>
<th>Cross sectional area - mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTCB3</td>
<td>100</td>
<td>3.0</td>
<td>2.0</td>
<td>3.5</td>
<td>1.06</td>
</tr>
<tr>
<td>FTCB4</td>
<td>100</td>
<td>4.0</td>
<td>3.0</td>
<td>5.0</td>
<td>1.49</td>
</tr>
<tr>
<td>FTCB5</td>
<td>100</td>
<td>5.0</td>
<td>4.0</td>
<td>6.0</td>
<td>1.91</td>
</tr>
<tr>
<td>FTCB6</td>
<td>100</td>
<td>6.0</td>
<td>5.0</td>
<td>7.0</td>
<td>2.23</td>
</tr>
<tr>
<td>FTCB10</td>
<td>50</td>
<td>10.0</td>
<td>7.0</td>
<td>12.0</td>
<td>4.43</td>
</tr>
<tr>
<td>FTCB12</td>
<td>50</td>
<td>12.5</td>
<td>11.0</td>
<td>13.0</td>
<td>4.83</td>
</tr>
<tr>
<td>FTCB15</td>
<td>50</td>
<td>15.0</td>
<td>13.0</td>
<td>18.0</td>
<td>8.29</td>
</tr>
<tr>
<td>FTCB20</td>
<td>50</td>
<td>20.0</td>
<td>17.0</td>
<td>23.0</td>
<td>9.65</td>
</tr>
<tr>
<td>FTCB25</td>
<td>50</td>
<td>25.0</td>
<td>22.0</td>
<td>28.0</td>
<td>12.54</td>
</tr>
<tr>
<td>FTCB30</td>
<td>25</td>
<td>30.0</td>
<td>27.0</td>
<td>36.0</td>
<td>19.30</td>
</tr>
<tr>
<td>FTCB35</td>
<td>25</td>
<td>35.0</td>
<td>30.0</td>
<td>50.0</td>
<td>19.30</td>
</tr>
<tr>
<td>FTCB50</td>
<td>25</td>
<td>50.0</td>
<td>45.0</td>
<td>65.0</td>
<td>35.63</td>
</tr>
</tbody>
</table>

**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

**FPA**

*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.

**Table: FPA**

<table>
<thead>
<tr>
<th>Use with Braid</th>
<th>Cond. See (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>42</td>
</tr>
</tbody>
</table>

**FPAX**

Use with Braid

**Table: FPAX**

<table>
<thead>
<tr>
<th>Use with Braid</th>
<th>Cond. See (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>42</td>
</tr>
</tbody>
</table>

**FTCB Braided sleeving**

*tinned copper braid system for EMC screening*

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

**ORDERING NOTES**
- Available on request:
  - 90° and 45° elbows
  - PG threads
Cable Gland Fittings

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.

- 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

### FITTINGS

<table>
<thead>
<tr>
<th>Conduit size (mm)</th>
<th>Part Number</th>
<th>Suitable for conduits</th>
<th>Conduit fitting</th>
<th>Fitting properties</th>
<th>Clamping range of cable gland</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>FSU20-M20-CG</td>
<td>FSU, FNU, LFHIU and FPU</td>
<td>FSU, M20</td>
<td>IP65</td>
<td>9-17mm</td>
</tr>
<tr>
<td>25</td>
<td>FSU25-M25-CG</td>
<td>FSU, M25</td>
<td>FSU, M25</td>
<td>IP68(10bar) + IP69K</td>
<td>9-17mm</td>
</tr>
<tr>
<td>32</td>
<td>FSU32-M32-CG</td>
<td>FSU, M32</td>
<td>FSU, M32</td>
<td>IP68(10bar) + IP69K</td>
<td>11-21mm</td>
</tr>
<tr>
<td>20</td>
<td>LTP20-M20-CG</td>
<td>LTP, LTPHC, LTPUL, LTPB20-M20-CG</td>
<td>LTP, M20</td>
<td>IP66 + IP67 + IP68(5bar) + IP69K</td>
<td>7-13mm</td>
</tr>
<tr>
<td>25</td>
<td>LTP25-M25-CG</td>
<td>LTP, LTPS, LTPS, LTPB25-M25-CG</td>
<td>LTP, M25</td>
<td>IP68(10bar) + IP69K</td>
<td>9-17mm</td>
</tr>
<tr>
<td>32</td>
<td>LTP32-M32-CG</td>
<td>LTP, LTPDLF and LTPB32-M32-CG</td>
<td>LTP, M32</td>
<td>IP68(10bar) + IP69K</td>
<td>11-21mm</td>
</tr>
<tr>
<td>20</td>
<td>FSB20-M20-CG</td>
<td>FSB &amp; FUSSB</td>
<td>FSB, M20</td>
<td>IP40</td>
<td>7-13mm</td>
</tr>
<tr>
<td>25</td>
<td>FSB25-M25-CG</td>
<td>FSB, M25</td>
<td>FSB, M25</td>
<td>IP68(10bar) + IP69K</td>
<td>9-17mm</td>
</tr>
<tr>
<td>32</td>
<td>FSB32-M32-CG</td>
<td>FSB, M32</td>
<td>FSB, M32</td>
<td>IP68(10bar) + IP69K</td>
<td>11-21mm</td>
</tr>
<tr>
<td>20</td>
<td>LPC20-M20-CG</td>
<td>LPC</td>
<td>LPC</td>
<td>IP68 + IP67 + IP68(5bar) + IP69K</td>
<td>7-13mm</td>
</tr>
<tr>
<td>25</td>
<td>LPC25-M25-CG</td>
<td>LPC, M25</td>
<td>LPC, M25</td>
<td>IP68(10bar) + IP69K</td>
<td>9-17mm</td>
</tr>
<tr>
<td>32</td>
<td>LPC32-M32-CG</td>
<td>LPC, M32</td>
<td>LPC, M32</td>
<td>IP68(10bar) + IP69K</td>
<td>11-21mm</td>
</tr>
</tbody>
</table>

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

### STANDARDS

BS EN IEC 61386

RoHS

CE
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

RoHS CE Lloyd's

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

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
<table>
<thead>
<tr>
<th>high fatigue life</th>
<th>temperature range</th>
<th>flexible</th>
<th>pliable</th>
<th>low fire hazard</th>
<th>halogen free</th>
<th>self extinguishing</th>
<th>high abrasion resistance</th>
<th>high UV resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>-40°C to +120°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-40°C to +120°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-40°C to +120°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-40°C to +120°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-50°C to +110°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-50°C to +110°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-60°C to +100°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-40°C to +110°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-20°C to +90°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-20°C to +90°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-20°C to +90°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-20°C to +90°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-5°C to +70°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-20°C to +70°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-20°C to +70°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-20°C to +70°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-5°C to +70°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-5°C to +70°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-5°C to +70°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-5°C to +70°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-20°C to +90°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-20°C to +90°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-20°C to +90°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>-20°C to +90°C</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

FPAS  nylon LFH PA6 corrugated, std weight
FPAL  nylon PA6 corrugated, light weight
FPAH  nylon LFH PA6 corrugated, heavy weight
FPR  nylon extra LFH PA6 corrugated, std weight
FPI  nylon PA12 corrugated, std weight
FPY  nylon PA6 corrugated, light weight
FPIH  nylon PA12 corrugated, heavy weight
FPADS  nylon PA6 double slit corrugated
FPP  polypropylene corrugated, std weight
FPP-NFR  polypropylene corrugated non flame retarded
FPPH  polypropylene corrugated heavy weight
FPR  pvc spiral reinforced black
FPCG  pvc spiral reinforced grey
FPCGN  pvc spiral reinforced green oil resistant
FPCBU  pvc spiral reinforced blue high temperature
LPC  smooth, pvc spiral reinforced
LPCO  smooth pvc spiral orange ultra flexible
LPCGN  smooth pvc spiral green oil resistant
LPCBU  smooth pvc spiral blue high temperature
FPL  upvc corrugated
FPY  nylon PA6, large diameter, std weight
non-metallic selection guide

- 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

Compression fittings

Jumbo

Accessories

Stopping Plugs

Clips

See Pg 68

See Pg 72, 73, 74 & 75

See Pg 77

See Pg 78 & 79
FPA

Straight Fittings - 10mm to 67mm

Coupler - Flexible to Rigid conduit

T-pieces

Reducing Divider

Fittings with integral strain relief

See Pg 54 & 57

See Pg 55, 56 & 58

See Pg 66

See Pg 42 & 59

FPAX

Straight Fittings - 10mm to 67mm

Coupler - Flexible to Rigid conduit

T-pieces

Reducing Divider

Fittings with integral strain relief

See Pg 60 & 63

See Pg 61, 63 & 64

See Pg 67

See Pg 65
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

<table>
<thead>
<tr>
<th>Pitch</th>
<th>Nominal Size (mm)</th>
<th>European (NW) Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>10 F</td>
<td>8, 10 F</td>
</tr>
<tr>
<td>10</td>
<td>13 F</td>
<td>12, 16 F</td>
</tr>
<tr>
<td>12</td>
<td>16 F</td>
<td>14, 18 F</td>
</tr>
<tr>
<td>20</td>
<td>21 C</td>
<td>21 C</td>
</tr>
<tr>
<td>22</td>
<td>25 C</td>
<td>22, 25.4 F</td>
</tr>
<tr>
<td>23</td>
<td>26 F</td>
<td>23, 28 F</td>
</tr>
<tr>
<td>28</td>
<td>34 C</td>
<td>29, 34 C</td>
</tr>
<tr>
<td>29</td>
<td>34 F</td>
<td>29, 34 F</td>
</tr>
<tr>
<td>36</td>
<td>42 C</td>
<td>36, 42 C</td>
</tr>
<tr>
<td>48</td>
<td>54 C</td>
<td>48, 54 C</td>
</tr>
<tr>
<td>56</td>
<td>67 C</td>
<td>56, 67 C</td>
</tr>
</tbody>
</table>

**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

www.flexicon.uk.com

Non-metallic conduit & fittings
STANDARDS

FPIH


Typical Applications: Robots and continual flexing.

• 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

Important Note
• For LFH performance see page 94

FPI


Typical Applications: Railways, underground and public buildings.

• Highly resistant to solvents and oils
• Abrasion resistant
• 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 V2 flame retardancy
• Compliance to Lloyds Register Type Approval
• Low Fire Hazard (LFH), see page 94
• UL recognised
• Temperature range -40˚C to +120˚C
• High mechanical strength
• High impact strength
• Exceptional fatigue life
• Displays self recovery if crushed
• Low fire hazard
• Self extinguishing
• High mechanical strength
• High mechanical strength
• Highly resistant to solvents and oils
• Abrasion resistant
• 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
• 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

FPR


Typical Applications: Heavy weight nylon (PA12) corrugated flexible conduit. Colour black.

• Highly resistant to solvents and oils
• Abrasion resistant
• Highly flexible and high fatigue life
• High impact strength and recovers if crushed
• Temperature range -40°C to +120°C
• UL recognised
• Lloyd’s Register Type Approval
• Extra Low Fire Hazard (LFH)
• Compliant to LUL Std 1-085
• UL 94 V2 flame retardancy
• Compliance to Lloyds Register Type Approval
• Low Fire Hazard (LFH), see page 94
• UL recognised
• Temperature range -40˚C to +120˚C
• High mechanical strength
• High impact strength
• Exceptional fatigue life
• Displays self recovery if crushed
• Low fire hazard
• Self extinguishing
• High mechanical strength
• High mechanical strength
• Highly resistant to solvents and oils
• Abrasion resistant
• 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
• 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

FPAH

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.

• High mechanical strength
• High impact resistance
• Temperature range -40°C to +120°C
• UL recognised
• Low Fire Hazard (LFH), see page 94
• UL 94 V0 flame retardancy
• Compliant to LUL Std 1-085
• UV resistant
• Self extinguishing
• High mechanical strength
• High mechanical strength
• Highly resistant to solvents and oils
• Abrasion resistant
• 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
• 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

IMPORTANT NOTE

• For LFH performance see page 94

F = fine pitch  C = coarse pitch

* refer to conduit properties for applicable standards
**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 61.

**FPADS**


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
- Halogen, sulphur and phosphorus free
- FPY6 also available, 7.3mm OD x 5mm ID
- Slit version available on request

**FCL**

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

**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
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 metalic corrugated conduits we offer. There are nine different non metalic 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.

---

**Non-metallic conduit and fitting**

**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.
**FPA system nylon**

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

---

**FITTINGS**

- **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.

---

**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

FPA90
90° elbow UNEF swivel internal thread
One piece, fast fit, 90 degree elbow fitting with nickel plated brass swivel UNEF internal thread for attachment to circular connectors.

FPA90 flange
One piece, fast fit 90 degree elbow fitting with nylon swivel flange.

FPA45
45° elbow external thread
One piece, fast fit, external threaded 45 degree elbow fitting. Suitable for 45 degree elbow fitting.

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 military style electrical connectors.

STANDARDS
- BS EN IEC 61386
- RoHS
- CE

Low Fire Hazard (LFH), see page 90
Halogen, sulphur and phosphorus free
Available in black or grey (RAL 7031)
**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.

---

**FITTINGS**

- **FPA45**
  - Flange: One piece, fast fit 45 degree elbow fitting with nylon swivel flange.

- **FPA-FPA**
  - Coupler: One piece, fast fit, coupler to join corrugated conduits. Also available in FPAX version.

- **FPA-MPC**
  - Coupler: One piece, fast fit, coupler to join corrugated conduit to rigid conduit.

---

**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)

<table>
<thead>
<tr>
<th>FPA13-BM16</th>
<th>FPA13-BFM16</th>
<th>FPA13-BPG9</th>
<th>FPA13-BPG9-90</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPA16-BM16</td>
<td>FPA16-BPG9</td>
<td>FPA16-BPG9-90</td>
<td></td>
</tr>
<tr>
<td>FPA16-BM16-90</td>
<td>FPA16-BFM16-90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FPA16-BPG11</td>
<td>FPA16-BPG11-90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FPA21-BM20</td>
<td>FPA21-BPG13-90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FPA21-BPG16-90</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FPA28-BM25</td>
<td>FPA28-BPG21-90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FPA34-BM32</td>
<td>FPA34-BPG29-90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FPA42-BM40</td>
<td>FPA42-BFM40-90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FPA42-BM50</td>
<td>FPA42-BM50-90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FPA54-BM50</td>
<td>FPA54-BFM50-90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FPA54-BMS3</td>
<td>FPA54-BMS3-90</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FPA67-BMS3</td>
<td>FPA67-BMS3-90</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STANDARDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS EN IEC 61386</td>
</tr>
<tr>
<td>UL</td>
</tr>
<tr>
<td>CE</td>
</tr>
<tr>
<td>RoHS</td>
</tr>
</tbody>
</table>
**FPA system** brass threaded

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

---

**FITTINGS**

**FPA90**

90° elbow swivel brass internal thread

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

**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.

**FPA45**

45° elbow swivel brass internal thread

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

---

**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
- 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

**STANDARDS**

- BS EN IEC 61386
- UL
- CE
- RoHS

**FPA**

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

<table>
<thead>
<tr>
<th>OD (mm)</th>
<th>7</th>
<th>10</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>17</th>
<th>20</th>
<th>23</th>
</tr>
</thead>
<tbody>
<tr>
<td>US</td>
<td>0.28</td>
<td>0.40</td>
<td>0.48</td>
<td>0.51</td>
<td>0.55</td>
<td>0.67</td>
<td>0.80</td>
<td>1.00</td>
</tr>
<tr>
<td>European</td>
<td>0.28</td>
<td>0.40</td>
<td>0.48</td>
<td>0.51</td>
<td>0.55</td>
<td>0.67</td>
<td>0.80</td>
<td>1.00</td>
</tr>
</tbody>
</table>

**FPA90**

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

<table>
<thead>
<tr>
<th>OD (mm)</th>
<th>7</th>
<th>10</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>17</th>
<th>20</th>
<th>23</th>
</tr>
</thead>
<tbody>
<tr>
<td>US</td>
<td>0.28</td>
<td>0.40</td>
<td>0.48</td>
<td>0.51</td>
<td>0.55</td>
<td>0.67</td>
<td>0.80</td>
<td>1.00</td>
</tr>
<tr>
<td>European</td>
<td>0.28</td>
<td>0.40</td>
<td>0.48</td>
<td>0.51</td>
<td>0.55</td>
<td>0.67</td>
<td>0.80</td>
<td>1.00</td>
</tr>
</tbody>
</table>

**FPA45**

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

<table>
<thead>
<tr>
<th>OD (mm)</th>
<th>7</th>
<th>10</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>17</th>
<th>20</th>
<th>23</th>
</tr>
</thead>
<tbody>
<tr>
<td>US</td>
<td>0.28</td>
<td>0.40</td>
<td>0.48</td>
<td>0.51</td>
<td>0.55</td>
<td>0.67</td>
<td>0.80</td>
<td>1.00</td>
</tr>
<tr>
<td>European</td>
<td>0.28</td>
<td>0.40</td>
<td>0.48</td>
<td>0.51</td>
<td>0.55</td>
<td>0.67</td>
<td>0.80</td>
<td>1.00</td>
</tr>
</tbody>
</table>
FITTINGS

**FPAX**

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

<table>
<thead>
<tr>
<th>OD Metric (mm)</th>
<th>OD PG</th>
<th>OD NPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>10</td>
<td>11.5</td>
</tr>
<tr>
<td>10</td>
<td>13</td>
<td>13.0</td>
</tr>
<tr>
<td>12</td>
<td>16</td>
<td>18.0</td>
</tr>
<tr>
<td>14</td>
<td>16</td>
<td>18.5</td>
</tr>
<tr>
<td>16</td>
<td>20</td>
<td>20.0</td>
</tr>
<tr>
<td>20</td>
<td>21</td>
<td>21.2</td>
</tr>
<tr>
<td>22</td>
<td>25</td>
<td>25.0</td>
</tr>
<tr>
<td>23</td>
<td>28</td>
<td>28.5</td>
</tr>
<tr>
<td>29</td>
<td>34</td>
<td>42.5</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>OD PG</th>
<th>OD UNEF</th>
<th>OD Thread Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>BU075</td>
<td>1(1/4&quot;)</td>
</tr>
<tr>
<td>13</td>
<td>BU100</td>
<td>1(1&quot;&quot;)</td>
</tr>
<tr>
<td>16</td>
<td>BU119</td>
<td>1(15/16&quot;)</td>
</tr>
</tbody>
</table>

**FPAX**

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

<table>
<thead>
<tr>
<th>OD PG</th>
<th>OD Flange</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>BU100</td>
</tr>
</tbody>
</table>

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

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.

FPAX90

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

FPAX90

- Fast fit
- Supplied with additional conduit seal and face seal
- Face seal details:
  - Nylon thread - neoprene washer
  - Brassoc 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
- 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

STANDARDS

- BS EN IEC 61386
- UL
- CE
- RoHS
- IP68
- IP67
- IP66
- IP65
- IP54
- IP40
- 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
- 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

properties

- Fast fit
- Supplied with additional conduit seal and face seal
- Face seal details:
  - Nylon thread - neoprene washer
  - Brassoc 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
- 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

STANDARDS

- BS EN IEC 61386
- UL
- CE
- RoHS
- IP68
- IP67
- IP66
- IP65
- IP54
- IP40
- 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
- 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 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**

**FPAX45**

45° elbow external thread

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

**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.

**Flange**

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

---

**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
STANDARDS

• 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

FPAX
straight swivel brass external thread
Fast fit, swivel, nickel plated brass external threaded fitting with additional conduit seal.

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.

| Nominal Size (mm) | 10.0 | 11.5 | 13.0 | 13.0 | 15.0 | 15.0 | 16.1 | 18.5 | 20.0 | 21.2 | 21.1 | 21.1 | 25.0 | 25.4 | 25.4 | 28.6 | 34.5 | 34.5 | 42.5 | 42.5 | 42.5 | 54.5 | 54.5 | 67.0 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
**NON-METALLIC CONDUIT & FITTINGS**

**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

---

**FPAX90**

90° elbow swivel brass internal thread

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

- FPAX13-BFM16-90
- FPAX13-BFPG16-90
- FPAX16-BFM20-90
- FPAX16-BFPG20-90
- FPAX21-BFM25-90
- FPAX21-BFPG25-90
- FPAX28-BFM32-90
- FPAX28-BFPG32-90
- FPAX34-BFM42-90
- FPAX34-BFPG42-90
- FPAX42-BFM50-90
- FPAX42-BFPG50-90
- FPAX54-BFM67-90
- FPAX54-BFPG67-90

**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.

- FPAX16-BM16-45
- FPAX16-BPG16-45
- FPAX21-BM20-45
- FPAX21-BPG16-45
- FPAX28-BM25-45
- FPAX28-BPG21-45
- FPAX34-BM32-45
- FPAX34-BPG29-45
- FPAX42-BM50-45
- FPAX42-BPG29-45
- FPAX54-BM67-45
- FPAX54-BPG29-45

---

**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.

- FPAX system
- Brass threaded
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

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

FPAX90

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

FPAX45

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

<table>
<thead>
<tr>
<th>Nominal Size (mm)</th>
<th>European (NW) Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>13</td>
<td>10</td>
</tr>
<tr>
<td>13</td>
<td>10</td>
</tr>
<tr>
<td>15.8</td>
<td>12</td>
</tr>
<tr>
<td>16</td>
<td>12</td>
</tr>
<tr>
<td>16</td>
<td>12</td>
</tr>
<tr>
<td>16.1</td>
<td>12</td>
</tr>
<tr>
<td>16.5</td>
<td>14</td>
</tr>
<tr>
<td>16.5</td>
<td>14</td>
</tr>
<tr>
<td>20</td>
<td>17</td>
</tr>
<tr>
<td>20</td>
<td>17</td>
</tr>
<tr>
<td>21.2</td>
<td>17</td>
</tr>
<tr>
<td>21</td>
<td>17</td>
</tr>
<tr>
<td>22.1</td>
<td>22</td>
</tr>
<tr>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>25.4</td>
<td>22</td>
</tr>
<tr>
<td>20</td>
<td>23</td>
</tr>
<tr>
<td>20.4</td>
<td>23</td>
</tr>
<tr>
<td>22.5</td>
<td>23</td>
</tr>
<tr>
<td>22.5</td>
<td>23</td>
</tr>
<tr>
<td>23</td>
<td>23</td>
</tr>
<tr>
<td>23</td>
<td>23</td>
</tr>
<tr>
<td>34</td>
<td>26</td>
</tr>
<tr>
<td>34.5</td>
<td>29</td>
</tr>
<tr>
<td>34</td>
<td>29</td>
</tr>
<tr>
<td>42</td>
<td>36</td>
</tr>
<tr>
<td>42</td>
<td>36</td>
</tr>
<tr>
<td>54</td>
<td>48</td>
</tr>
<tr>
<td>54</td>
<td>48</td>
</tr>
<tr>
<td>67</td>
<td>56</td>
</tr>
</tbody>
</table>


FPAX54-BP50-CG*  FPAX54-BP50-CG*  FPAX54-BP50-CG*  FPAX54-BP50-CG*  FPAX54-BP50-CG*  FPAX54-BP50-CG*  FPAX54-BP50-CG*  FPAX54-BP50-CG*
**Construction:** Nylon (PA66) moulded fitting. FPA colour black or grey as standard. FPAX incorporate internal elastomeric seal(s). Colour black or grey on request.

<table>
<thead>
<tr>
<th>FPA</th>
<th>FPA</th>
<th>Reducer/ Stop Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>T piece with inspection lid</td>
<td>Divider</td>
<td>Fitting to reduce or blank off any outlets.</td>
</tr>
<tr>
<td>Conduit In (mm)</td>
<td>Conduit Out x 2 for divider</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>16</td>
<td>FPA16T</td>
</tr>
<tr>
<td>17</td>
<td>21</td>
<td>FPA21T</td>
</tr>
<tr>
<td>23</td>
<td>28</td>
<td>FPA28T</td>
</tr>
<tr>
<td>29</td>
<td>34</td>
<td>FPA34T</td>
</tr>
<tr>
<td>36</td>
<td></td>
<td>FPA42T</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FPA16-13-13</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FPA13-R16</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FPA28-R34</td>
</tr>
</tbody>
</table>

**How to read the fittings code**

<table>
<thead>
<tr>
<th>FPAX21-R28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fitting to reduce or blank off any outlets.</td>
</tr>
</tbody>
</table>

**ORDERING NOTES**

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

* Available on request:
  - other colours
- 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

**STANDARDS**

- BS EN IEC 61386
- RoHS
**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 (LFH), see page 94
- Halogen, sulphur and phosphorus free
- Available in black, grey (RAL 7031) and white, see page 69

**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

** NON-METALLIC CONDUIT & FITTINGS **

**FITTINGS**

**FLK**
- **straight external thread**
  - One piece, slim, fast fit, external threaded fitting suitable for knockouts or threaded entries.

**FLK**
- **Push in**
  - Simple, one piece, push in fitting suitable for knockouts with no need for locknuts.

**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.

---

** nomimal size (mm)**

- 10
- 11
- 13
- 16
- 18
- 20
- 21
- 25
- 28
- 34
- 42
- 54
- 67

**OD mm**

- 10.0
- 11.5
- 13.0
- 15.8
- 16.1
- 16.5
- 20.0
- 21.2
- 25.0
- 25.4
- 28.5
- 34.5
- 42.5
- 54.5
- 67.0

**FLK16-M16**
- **FLK13-M16**
  - **FLK13-PG9**

**FLK16-M20**
- **FLK16-PG13**
  - **FLK16-M20-90**

**FLK20-M20**
- **FLK20-PG16**
  - **FLK20-M20-90**

**FLK21-M20**
- **FLK21-PG16**
  - **FLK21-M20-90**

**FLK25-M25**
- **FLK25-PG21**
  - **FLK25-M25-90**

**FLK28-M25**
- **FLK28-PG29**
  - **FLK28-M25-90**

**FLK34-M32**
- **FLK34-PG29**
  - **FLK34-M32-90**

**FLK42-M40**
- **FLK54-M50**
  - **FLK54-M50**

**Also Available Specials**
- **Push in fitting removal tool**
- **Brass threaded versions**

---

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

### CONDUIT

- **FPP:** Polypropylene conduit, white, M20 thread
- **FLK:** 90° elbow, 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
- **FCL-P:** nylon conduit clip with integral lid

### FITTINGS

- **FPL:** for details see page 76

### PVC - Contractor pack

- **FPP-CP20W:** M20 thread, 10m of FPL white conduit
- **FPP-CP25W:** M25 thread, 10m of FPL white conduit

### Cable Glands

<table>
<thead>
<tr>
<th>Thread No.</th>
<th>White Part No.</th>
<th>Thread Length (mm)</th>
<th>Cable Dia (min) (mm)</th>
<th>Cable Dia (max) (mm)</th>
<th>Spanner Size (mm)</th>
<th>Pack Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>M16</td>
<td>GM16W</td>
<td>11</td>
<td>5</td>
<td>10</td>
<td>22</td>
<td>100</td>
</tr>
<tr>
<td>M20</td>
<td>GM20SW</td>
<td>11</td>
<td>6</td>
<td>12</td>
<td>24</td>
<td>100</td>
</tr>
<tr>
<td>M25</td>
<td>GM25W</td>
<td>11</td>
<td>10</td>
<td>14</td>
<td>27</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>GM25SW</td>
<td>11</td>
<td>13</td>
<td>18</td>
<td>33</td>
<td>50</td>
</tr>
</tbody>
</table>

Supplied with locknut

For other colours see page 79

### STANDARDS

- **CE**
- **RoHS**
**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**

<table>
<thead>
<tr>
<th>MP</th>
<th>MPS</th>
<th>MP90</th>
<th>MPS90</th>
<th>T</th>
<th>TS</th>
</tr>
</thead>
<tbody>
<tr>
<td>straight external thread</td>
<td>straight external thread</td>
<td>90° elbow external thread</td>
<td>90° elbow external thread</td>
<td>T Piece fitting</td>
<td>T Piece fitting</td>
</tr>
<tr>
<td>straight nylon compression fitting external thread including locknut.</td>
<td>Straight nylon compression fitting, with seal, external thread including locknut.</td>
<td>90° elbow nylon compression fitting external thread including locknut.</td>
<td>90° elbow nylon compression fitting, with seal, external thread including locknut.</td>
<td>T piece fitting nylon compression fitting.</td>
<td>T piece fitting nylon compression fitting, with seals.</td>
</tr>
</tbody>
</table>

---

**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.

---

**MSL**

straight hinged fitting external thread
Nylon and PP hinged, snap on fittings including locknuts.

**MPC**

straight nylon external thread
Nylon compression fitting, external thread including locknut.

**EC**

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

**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.

---

### Ext Metric (Nylon)

<table>
<thead>
<tr>
<th>nominal size (mm)</th>
<th>end cap Ø (mm)</th>
<th>Conduit Clip</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>10</td>
<td>FCL10</td>
</tr>
<tr>
<td>11</td>
<td>11.5</td>
<td>FCL13</td>
</tr>
<tr>
<td>13</td>
<td>13</td>
<td>FCL16</td>
</tr>
<tr>
<td>16</td>
<td>15.8</td>
<td>FCL18</td>
</tr>
<tr>
<td>16</td>
<td>16</td>
<td>FCL20</td>
</tr>
<tr>
<td>18</td>
<td>18.5</td>
<td>FCL21</td>
</tr>
<tr>
<td>20</td>
<td>20</td>
<td>FCL25</td>
</tr>
<tr>
<td>21</td>
<td>21.2</td>
<td>FCL28</td>
</tr>
<tr>
<td>23</td>
<td>23</td>
<td>FCL34</td>
</tr>
<tr>
<td>24</td>
<td>24.5</td>
<td>FCL36</td>
</tr>
<tr>
<td>26</td>
<td>26</td>
<td>FCL42</td>
</tr>
<tr>
<td>28</td>
<td>28</td>
<td>FCL54</td>
</tr>
<tr>
<td>34</td>
<td>34</td>
<td>FCL56</td>
</tr>
<tr>
<td>36</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>48</td>
<td></td>
</tr>
</tbody>
</table>

### Ext Metric (PP)

<table>
<thead>
<tr>
<th>nominal size (mm)</th>
<th>end cap Ø (mm)</th>
<th>Conduit Clip</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>10</td>
<td>FCL10</td>
</tr>
<tr>
<td>11</td>
<td>11.5</td>
<td>FCL13</td>
</tr>
<tr>
<td>13</td>
<td>13</td>
<td>FCL16</td>
</tr>
<tr>
<td>16</td>
<td>15.8</td>
<td>FCL18</td>
</tr>
<tr>
<td>16</td>
<td>16</td>
<td>FCL20</td>
</tr>
<tr>
<td>18</td>
<td>18.5</td>
<td>FCL21</td>
</tr>
<tr>
<td>20</td>
<td>20</td>
<td>FCL25</td>
</tr>
<tr>
<td>21</td>
<td>21.2</td>
<td>FCL28</td>
</tr>
<tr>
<td>23</td>
<td>23</td>
<td>FCL34</td>
</tr>
<tr>
<td>24</td>
<td>24.5</td>
<td>FCL36</td>
</tr>
<tr>
<td>26</td>
<td>26</td>
<td>FCL42</td>
</tr>
<tr>
<td>28</td>
<td>28</td>
<td>FCL54</td>
</tr>
<tr>
<td>34</td>
<td>34</td>
<td>FCL56</td>
</tr>
<tr>
<td>36</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>67</td>
<td>67</td>
<td></td>
</tr>
</tbody>
</table>

### End Cap

<table>
<thead>
<tr>
<th>nominal size (mm)</th>
<th>end cap Ø (mm)</th>
<th>Conduit Clip</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>10</td>
<td>FCL10</td>
</tr>
<tr>
<td>11</td>
<td>11.5</td>
<td>FCL13</td>
</tr>
<tr>
<td>13</td>
<td>13</td>
<td>FCL16</td>
</tr>
<tr>
<td>16</td>
<td>15.8</td>
<td>FCL18</td>
</tr>
<tr>
<td>16</td>
<td>16</td>
<td>FCL20</td>
</tr>
<tr>
<td>18</td>
<td>18.5</td>
<td>FCL21</td>
</tr>
<tr>
<td>20</td>
<td>20</td>
<td>FCL25</td>
</tr>
<tr>
<td>21</td>
<td>21.2</td>
<td>FCL28</td>
</tr>
<tr>
<td>23</td>
<td>23</td>
<td>FCL34</td>
</tr>
<tr>
<td>24</td>
<td>24.5</td>
<td>FCL36</td>
</tr>
<tr>
<td>26</td>
<td>26</td>
<td>FCL42</td>
</tr>
<tr>
<td>28</td>
<td>28</td>
<td>FCL54</td>
</tr>
<tr>
<td>34</td>
<td>34</td>
<td>FCL56</td>
</tr>
<tr>
<td>36</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>67</td>
<td>67</td>
<td></td>
</tr>
</tbody>
</table>

---

**STANDARDS**

BS EN IEC 61386
**FPCB** system
spiral reinforced pvc

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

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

#### FPCBU

- **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.

### 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).

### 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

[Image of alternative components, possibly showing different conduit and fitting options available for selection or comparison.]
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

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).

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).

<table>
<thead>
<tr>
<th>Metric thread part number</th>
<th>PG thread part number</th>
<th>PG thread part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC90-16-M16</td>
<td>MPC90-16-PG11</td>
<td>MPC45-16-M20</td>
</tr>
<tr>
<td>MPC90-16-M20</td>
<td>MPC90-16-PG13</td>
<td>MPC45-20-M20</td>
</tr>
<tr>
<td>MPC90-20-M20</td>
<td>MPC90-20-PG16</td>
<td>MPC45-25-M25</td>
</tr>
<tr>
<td>MPC90-25-M25</td>
<td>MPC90-25-PG21</td>
<td>MPC45-32-M32</td>
</tr>
<tr>
<td>MPC90-32-M32</td>
<td>MPC90-32-PG29</td>
<td></td>
</tr>
<tr>
<td>MPC90-40-M40</td>
<td>MPC90-40-PG36</td>
<td></td>
</tr>
</tbody>
</table>

MPC90-16-PG11
MPC90-16-PG13
MPC90-20-PG16
MPC90-25-PG21
MPC90-32-PG29
MPC90-40-PG36

MPC45-16-M20
MPC45-20-M20
MPC45-25-M25
MPC45-32-M32

STANDARDS
BS EN IEC 61386

TECHNICAL DRAWING

* refer to conduit properties for applicable standards
**LPC system**
smooth spiral reinforced pvc

**LPCO, LPCGN & LPCBU system**
smooth spiral reinforced pvc
with special properties

### 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.

**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.

### FITTINGS

**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).

### 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

- LPC12B LPC12G* LPC12O* LPC12GN* LPC12BU*
  - 30 14.2 10.0 50
- LPC16B LPC16G LPC16O LPC16GN LPC16BU
  - 30 17.8 12.6 50
- LPC20B LPC20G LPC20O LPC20GN LPC20BU
  - 10,30 21.1 15.0 70
  - 10,30 26.4 21.0 90
- LPC32B LPC32G LPC32O LPC32GN LPC32BU
  - 10,30 33.1 26.5 140
- LPC40B LPC40G* LPC40O* LPC40GN LPC40BU
  - 10,30 41.8 35.4 190
- LPC50B LPC50G* LPC50O* LPC50GN LPC50BU
  - 10,30 47.9 40.0 240
- LPC63B LPC63G* LPC63O* LPC63GN LPC63BU
  - 10,30 59.7 51.3 270

- MPC-16-M16 MPC-16-PG11 MPC-16-050
  - MPC30-16-M16 MPC30-16-PG11
- MPC-16-M20 MPC-16-PG13 MPC-16-050
  - MPC30-16-M20 MPC30-16-PG13
- MPC-20-M20 MPC-20-PG16 MPC-20-050
  - MPC30-20-M20 MPC30-20-PG16
- MPC-25-M25 MPC-25-PG21 MPC-25-075
  - MPC30-25-M25 MPC30-25-PG21
- MPC-32-M32 MPC-32-PG29 MPC-32-100
  - MPC30-32-M32 MPC30-32-PG29
- MPC-40-M40 MPC-40-PG36 MPC-40-125
  - MPC30-40-M40 MPC30-40-PG36
- MPC-50-M50 MPC-50-PG42 MPC-50-175
  - MPC30-50-M50 MPC30-50-PG42
- MPC-63-M63 MPC-63-PG48
- Smooth, wipe clean surface
- Accepts some torsional movement
- IP rating: IP67 with MPC 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

<table>
<thead>
<tr>
<th>Properties</th>
<th>LPCBU (blue) temperature range -20°C to +90°C</th>
<th>LPCO (orange) is highly flexible</th>
<th>LPCGN (green) is oil resistant</th>
<th>LPCB (black) is UV resistant</th>
<th>Self extinguishing</th>
<th>Metric nylon fittings supplied complete with locknut</th>
<th>Vibration and shock tested to EN 61373 Cat 2</th>
</tr>
</thead>
</table>

**Standards**
- BS EN IEC 61386

**Technical Drawing**

### MPC45
- 45° elbow nylon fitting external thread
- 2 part compression, 45 degree elbow fitting with internal spigot and all round external teeth to grip conduit. Available in black or grey (RAL 7001).

### C
- External metric thread nickel plated brass
- Multifit compression fitting including nylon seal. Can be used for knockout or threaded entries as fitting rotates until tightened.

### C-S
- Swivel external thread NPB
- Compression fitting for knockout or threaded entries. Multifit compression fitting including elastomeric seal. The external thread swivels about the main body even after tightening.

### C90
- External thread stainless steel
- Multifit compression fitting including nylon seal. Can be used for knockout or threaded entries as fitting rotates until tightened.

### CSS
- Stainless steel
- Multifit compression fitting including nylon seal. Can be used for knockout or threaded entries as fitting rotates until tightened.

### C90-SS
- Stainless steel
- Multifit compression fitting including nylon seal. Can be used for knockout or threaded entries as fitting rotates until tightened.

<table>
<thead>
<tr>
<th>Metric thread part number</th>
<th>Metric thread part number</th>
<th>Metric thread part number</th>
<th>Metric thread part number</th>
<th>Metric thread part number</th>
<th>Metric thread part number</th>
<th>Metric thread part number</th>
<th>Metric thread part number</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Nominal size (mm)</th>
<th>Metric thread part number</th>
<th>Metric thread part number</th>
<th>Metric thread part number</th>
<th>Metric thread part number</th>
<th>Metric thread part number</th>
<th>Metric thread part number</th>
<th>Metric thread part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>63</td>
<td>LPC63-M63-C</td>
<td>LPC63-M63-C</td>
<td>LPC63-M63-C</td>
<td>LPC63-M63-C</td>
<td>LPC63-M63-C</td>
<td>LPC63-M63-C</td>
<td>LPC63-M63-C</td>
</tr>
</tbody>
</table>
**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

**Tables:**

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Inside Dia (mm)</th>
<th>Outside Dia (mm)</th>
<th>Min Inside Bend Radius (mm)</th>
<th>Reel Length (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>FPL16</td>
<td>12.0</td>
<td>16.0</td>
<td>25</td>
<td>50</td>
</tr>
<tr>
<td>16</td>
<td>FPL20</td>
<td>15.0</td>
<td>20.0</td>
<td>30</td>
<td>50</td>
</tr>
<tr>
<td>25</td>
<td>FPL25</td>
<td>19.5</td>
<td>25.0</td>
<td>40</td>
<td>50</td>
</tr>
<tr>
<td>32</td>
<td>FPL32</td>
<td>27.9</td>
<td>34.5</td>
<td>50</td>
<td>50</td>
</tr>
</tbody>
</table>

**FLK**

**FLK90**

**MP**

**MPS**

**FLK90**

*90° elbow external thread*

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

**FLK**

**FLK90**

**MP**

**MPS**

**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

*Push in fittings available on Page 68*
**FPY system**

**large diameter nylon**

**FITTINGS**

**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)

**CONDUIT**

**Fitting Types**

<table>
<thead>
<tr>
<th>FPY</th>
<th>Part Number</th>
<th>Termination</th>
<th>Min Inside Bend Radius (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL</td>
<td>MP-80-FL</td>
<td>FL</td>
<td>160</td>
</tr>
<tr>
<td>FL</td>
<td>MP-106-FL</td>
<td>FL</td>
<td>210</td>
</tr>
<tr>
<td>FL</td>
<td>MPS-80-FL</td>
<td>FL</td>
<td>210</td>
</tr>
<tr>
<td>FL</td>
<td>MPS-106-FL</td>
<td>FL</td>
<td>210</td>
</tr>
</tbody>
</table>

**STANDARDS**

- BS EN IEC 61386
- FCC80 and FCC106 PVC lined plated steel P-clips

**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
**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

<table>
<thead>
<tr>
<th>metric part number</th>
<th>nickel plated brass part number</th>
<th>plated steel part number</th>
<th>stainless steel part number</th>
<th>nylon part number</th>
<th>metric part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-M12</td>
<td>S-M12</td>
<td>SS-M12</td>
<td>LM12-N*</td>
<td>SP-M12*</td>
<td></td>
</tr>
<tr>
<td>B-M16</td>
<td>S-M16</td>
<td>SS-M16</td>
<td>LM16-N*</td>
<td>SP-M16</td>
<td></td>
</tr>
<tr>
<td>B-M20</td>
<td>S-M20</td>
<td>SS-M20</td>
<td>LM20-N*</td>
<td>SP-M20</td>
<td></td>
</tr>
<tr>
<td>B-M32</td>
<td>S-M32</td>
<td>SS-M32</td>
<td>LM32-N*</td>
<td>SP-M32</td>
<td></td>
</tr>
<tr>
<td>B-M40</td>
<td>S-M40</td>
<td>SS-M40</td>
<td>LM40-N*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-M50</td>
<td>S-M50</td>
<td>SS-M50</td>
<td>LM50-N*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-M63</td>
<td>S-M63</td>
<td>SS-M63</td>
<td>LM63-N*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-M75</td>
<td>S-M75</td>
<td>SS-M75</td>
<td>LM75-N*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**rubber end sleeves**

**90° elbow**
- internal and external threaded nickel plated brass 90° elbow

**couplers**
- nickel plated brass internally threaded

<table>
<thead>
<tr>
<th>ES10-13</th>
<th>13</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES14-17</td>
<td>16</td>
<td>5</td>
</tr>
<tr>
<td>ES17-20</td>
<td>20</td>
<td>7</td>
</tr>
<tr>
<td>ES19-22</td>
<td>21</td>
<td>8</td>
</tr>
<tr>
<td>ES21-24</td>
<td>25</td>
<td>9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PG7</th>
<th>BM90-PG7</th>
</tr>
</thead>
<tbody>
<tr>
<td>M16</td>
<td>BM90-16M</td>
</tr>
<tr>
<td>M20</td>
<td>BM90-20M</td>
</tr>
<tr>
<td>M25</td>
<td>BM90-25M</td>
</tr>
<tr>
<td>M32</td>
<td>BM90-32M</td>
</tr>
<tr>
<td>M40</td>
<td>BM90-40M</td>
</tr>
<tr>
<td>M50</td>
<td>BM90-50M</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>M16</th>
<th>B-M16-C</th>
</tr>
</thead>
<tbody>
<tr>
<td>M20</td>
<td>B-M20-C</td>
</tr>
<tr>
<td>M25</td>
<td>B-M25-C</td>
</tr>
<tr>
<td>M32</td>
<td>B-M32-C</td>
</tr>
<tr>
<td>M40</td>
<td>B-M40-C</td>
</tr>
<tr>
<td>M50</td>
<td>B-M50-C</td>
</tr>
<tr>
<td>M63</td>
<td>B-M63-C</td>
</tr>
<tr>
<td>M75</td>
<td>B-M75-C</td>
</tr>
</tbody>
</table>

* indicates parts made to order on request and may be subject to MOQ and lead time
### Sealing Washers
- Neoprene and fibre face

### Earthing Washers
- Shake proof washer
- Earth tag washer

### Fixing Clips
- Plated steel with black PVC liner or stainless steel. LFH liner available on request

### Conduit Clip
- Nylon conduit clip with integral lid - black or grey

---

### Cable Glands

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

#### Thread Size
- **M16**: CGM16B, CGM16R, CGM16W, CGM16G
- **M20**: CGM20B, CGM20R, CGM20W, CGM20G
- **M32**: CGM32B

#### Dimensions
- **Thread Length**: 11 mm
- **Cable Dia (min)**: 5 mm
- **Cable Dia (max)**: 10 mm
- **Spanner Size**: 22 mm
- **Pack Quantity**: 100

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

---

### Technical Details
- **Material**: Nickel plated brass
- **IP Rating**: IP68 (10 bar) + 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**

---

### Standards

* refer to technical details

---

available on request: EMC versions, short threaded, Reduced clamp range.
nickel plated brass thread convertors, reducers and enlargers external and internal thread

### Metric Threads

<table>
<thead>
<tr>
<th>External Thread</th>
<th>M16</th>
<th>M20</th>
<th>M25</th>
<th>M32</th>
<th>M40</th>
<th>M50</th>
<th>M63</th>
</tr>
</thead>
</table>

### PG Threads

<table>
<thead>
<tr>
<th>External Thread</th>
<th>PG7</th>
<th>PG9</th>
<th>PG11</th>
<th>PG13.5</th>
<th>PG16</th>
<th>PG21</th>
<th>PG29</th>
<th>PG36</th>
<th>PG42</th>
<th>PG48</th>
</tr>
</thead>
</table>
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.

**tools**

**clamp**
Cutting vice to hold metallic conduits and guide hacksaw

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS8</td>
<td>clamp</td>
</tr>
</tbody>
</table>

**hacksaw blade**
Fine tooth (32 TPI) blade for standard hacksaw

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HACKSAWBLADE</td>
<td></td>
</tr>
</tbody>
</table>

**bandsaw**
Bench mounted, 240v, fine toothed (32 TPI) bandsaw

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BANDSAW</td>
<td>bandsaw</td>
</tr>
<tr>
<td>BANDSAWBLADE</td>
<td>(spare blades)</td>
</tr>
</tbody>
</table>

**conduit cutter**
For any non metallic flexible and rigid conduits

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC01</td>
<td>up to 34mm conduits</td>
</tr>
<tr>
<td>CC02</td>
<td>up to 67mm conduits</td>
</tr>
</tbody>
</table>

**slitting tool**
Can be used to slit all corrugated conduits down to 13mm

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS01</td>
<td>slitting tool</td>
</tr>
</tbody>
</table>

**slit conduit insertion tool**
For easy installation of wires into slit conduit.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST16</td>
<td>FPYS16 + FPYS12</td>
</tr>
<tr>
<td>ST20</td>
<td>FPYS20</td>
</tr>
<tr>
<td>ST25</td>
<td>FPYS25</td>
</tr>
<tr>
<td>ST32</td>
<td>FPYS32</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>For use with</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTPF20</td>
<td>FLK16-PL20, FLK20-PL20, FLK21-PL20</td>
</tr>
<tr>
<td>RTPF25</td>
<td>FLK25-PL25, FLK28-PL25</td>
</tr>
<tr>
<td>RTPF32</td>
<td>FLK34-PL32</td>
</tr>
</tbody>
</table>

**STANDARDS**

[CE logo] [RoHS logo]
Each pack contains:

- 10m conduit
- 10 fittings
- 10 locknuts

Benefits

- Simplistic ordering
- Easy storage
- Ready to use

**PVC white**

- FPL-CP20W M20 thread
- FPL-CP25W M25 thread
- 10 metres of white corrugated UPVC FPL20 or FPL25
- Pliable conduit for static applications
- Self extinguishing
- IP68
- IP67
- IP66
- 1 part, fast fit

**SLIT POLYPROPYLENE grey**

- FPPS-TP21G
- 10 metres of slit grey polypropylene FPP21G
- Self extinguishing
- IP68
- IP67
- IP65
- IP54
- IP40
- IP69K
- Can be slipped over existing cables to tidy up and protect them
- 1 slit conduit insertion tool ST20
- **STEEL**
  - pvc coating - black
  - FSU-CP20B M20 thread
  - 10 metres of galvanised steel with PVC coating
  - Temperature range -15°C to +70°C
  - Self extinguishing
  - High mechanical strength
  - Highly flexible

- **NYLON**
  - black
  - FPAS-CP21B M20 thread
  - FPAS-CP25B M25 thread
  - 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

- **PVC SPIRAL**
  - black
  - FPC-CP20B M20 thread
  - FPC-CP25B M25 thread
  - 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

- **NYLON**
  - black
  - FPYE-CP20B M20 thread
  - FPYE-CP25B M25 thread
  - 10 metres of light weight nylon PA6 FPAL20 or FPAL25
  - Flexible
  - Halogen free
  - Self extinguishing
  - Temperature range -40°C to +120°C

- **POLYPROPYLENE**
  - black or grey
  - FPP-CP20B M20 thread
  - FPP-CP25B M25 thread
  - 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

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

- 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

- Temperature range -20°C to +90°C
  - 10 Flexilok fittings and locknuts FLK20-M20B or FLK25-M25B
  - One part, fast fit
  - Self extinguishing
  - Highly flexible
  - Accepts torsional movement
  - UV resistant

- Temperature range -5˚C to +70˚C
  - 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 -5˚C to +70˚C
  - 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

- 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

- Temperature range -20°C to +90°C
  - 10 Flexilok (PP) fittings and locknuts FLK20-M20-PP or FLK25-M25-PP
  - One part, fast fit
  - Self extinguishing
  - Highly flexible
  - Accepts torsional movement
  - UV resistant

- **STANDARDS**
  - CE
  - RoHS

- **DON’T FORGET**
  - See page 52
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

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
## Pneumatic

### Time Delay Switches

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTS40</td>
<td>Single Pole Changeover</td>
</tr>
<tr>
<td>FTS41</td>
<td>Single Pole Changeover c/w Neon</td>
</tr>
<tr>
<td>FTS42</td>
<td>Double Pole Changeover</td>
</tr>
<tr>
<td>FTS43</td>
<td>Double Pole Changeover c/w Neon</td>
</tr>
<tr>
<td>FTS163</td>
<td>Weatherproof Shroud</td>
</tr>
</tbody>
</table>

**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

## Electronic

### Time Delay Switches

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTE2PBE</td>
<td>Single pole timer - ECO</td>
</tr>
<tr>
<td>FTE2PBP</td>
<td>Single pole timer - Premier</td>
</tr>
</tbody>
</table>

**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

### Weatherproof Time Delay Switches

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTE2PBW</td>
<td>Single pole timer - Waterproof</td>
</tr>
</tbody>
</table>

**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

---

*NB. For connection diagrams see pages 93 or visit our website.*
<table>
<thead>
<tr>
<th>Page number</th>
<th>conduit system</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td><strong>FU</strong> galvanised steel</td>
</tr>
<tr>
<td>20</td>
<td><strong>SSU</strong> stainless steel, grade 316</td>
</tr>
<tr>
<td>22</td>
<td><strong>FSU</strong> galvanised steel, pvc coated</td>
</tr>
<tr>
<td>22</td>
<td><strong>FNU</strong> galvanised steel, nylon coated</td>
</tr>
<tr>
<td>24</td>
<td><strong>LFHU</strong> galvanised steel, LFH coated</td>
</tr>
<tr>
<td>24</td>
<td><strong>FPU</strong> galvanised steel, polyurethane coated</td>
</tr>
<tr>
<td>26</td>
<td><strong>LTP</strong> galv steel, pvc coated, liquid tight</td>
</tr>
<tr>
<td>26</td>
<td><strong>LTPHC</strong> galv steel, thermoplastic rubber, liquid tight</td>
</tr>
<tr>
<td>26</td>
<td><strong>LTPUL</strong> galv steel, pvc coated, liquid tight</td>
</tr>
<tr>
<td>26</td>
<td><strong>LTPE</strong> galv steel, pvc coated, liquid tight</td>
</tr>
<tr>
<td>28</td>
<td><strong>LTPSS</strong> stainless steel, pvc coated, liquid tight</td>
</tr>
<tr>
<td>28</td>
<td><strong>LTPPU</strong> galv steel, polyurethane coated, liquid tight</td>
</tr>
<tr>
<td>28</td>
<td><strong>LTBRDP</strong> galv steel, braided core, pvc coated, liquid tight</td>
</tr>
<tr>
<td>28</td>
<td><strong>LTBRDLFH</strong> galv steel, braided core, pvc coated, liquid tight</td>
</tr>
<tr>
<td>32</td>
<td><strong>FI</strong> galvanised steel, pliable</td>
</tr>
<tr>
<td>32</td>
<td><strong>FLP</strong> galvanised steel, pvc coated, pliable</td>
</tr>
<tr>
<td>32</td>
<td><strong>LFHP</strong> galvanised steel, LFH coated, pliable</td>
</tr>
<tr>
<td>34</td>
<td><strong>FSB</strong> galv steel, pvc, galv steel overbraid</td>
</tr>
<tr>
<td>34</td>
<td><strong>LFHUBRD</strong> galv steel, LFH coated, SS316 overbraid</td>
</tr>
<tr>
<td>36</td>
<td><strong>FB</strong> galvanised steel, galv steel overbraid</td>
</tr>
<tr>
<td>36</td>
<td><strong>FUSSB</strong> galvanised steel, SS316 overbraid</td>
</tr>
<tr>
<td>38</td>
<td><strong>LTPBRD</strong> galv steel, rubber coated, SS316 overbraid</td>
</tr>
<tr>
<td>40</td>
<td><strong>FRPSS</strong> PA6 corrugated, SS316 overbraid</td>
</tr>
<tr>
<td>40</td>
<td><strong>FPRTC</strong> PA6 corrugated, tinned copper overbraid</td>
</tr>
<tr>
<td>40</td>
<td><strong>FPiSS</strong> PA12 corrugated, SS316 overbraid</td>
</tr>
<tr>
<td>40</td>
<td><strong>FPIHSS</strong> PA12 corrugated, SS316 overbraid</td>
</tr>
</tbody>
</table>

**Key**

- **X**: good resistance
- **L**: limited resistance
- **P**: suitable with polypropylene fittings
- **SS**: suitable with stainless steel fittings
- **X**: poor resistance
### Metallic Conduit and Fittings

<table>
<thead>
<tr>
<th>Chemicals</th>
<th>Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Peroxide (50%)</td>
<td>galvanised steel, LF coated, SS316 overbraid</td>
</tr>
<tr>
<td>Acetic Acid</td>
<td>galvanised steel, polyurethane coated</td>
</tr>
<tr>
<td>Lactic Acid</td>
<td>galvanised steel, grade 316</td>
</tr>
<tr>
<td>Hydrogen Peroxide (30%)</td>
<td>stainless steel, grade 316</td>
</tr>
<tr>
<td>Methyl Bromide</td>
<td>stainless steel, grade 316</td>
</tr>
<tr>
<td>Methyl Alcohol</td>
<td>stainless steel, grade 316</td>
</tr>
<tr>
<td>L-Butyl Alcohol</td>
<td>stainless steel, grade 316</td>
</tr>
<tr>
<td>Hydrogen Peroxide (50%)</td>
<td>stainless steel, grade 316</td>
</tr>
<tr>
<td>Sulphuric Acid (10%)</td>
<td>stainless steel, grade 316</td>
</tr>
<tr>
<td>Sulphuric Acid (10%)</td>
<td>stainless steel, grade 316</td>
</tr>
<tr>
<td>Sulphuric Acid (10%)</td>
<td>stainless steel, grade 316</td>
</tr>
<tr>
<td>Sulphuric Acid (10%)</td>
<td>stainless steel, grade 316</td>
</tr>
<tr>
<td>Sulphuric Acid (10%)</td>
<td>stainless steel, grade 316</td>
</tr>
<tr>
<td>Sulphuric Acid (10%)</td>
<td>stainless steel, grade 316</td>
</tr>
</tbody>
</table>

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.
## Conduit System

<table>
<thead>
<tr>
<th>Page</th>
<th>Conduit System</th>
<th>Resistance to Chemicals</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td><strong>FPAS</strong> nylon LFH PA6 corrugated, std weight</td>
<td>✓ ✓ ✓ L ✓ ✓ ✓ ✓ ✓ ✓ L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>50</td>
<td><strong>FPAL</strong> nylon PA6 corrugated, light weight</td>
<td>✓ ✓ ✓ L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>51</td>
<td><strong>FPAH</strong> nylon LFH PA6 corrugated, heavy weight</td>
<td>✓ ✓ ✓ L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>51</td>
<td><strong>FPR</strong> nylon extra LFH PA6 corrugated, std weight</td>
<td>✓ ✓ ✓ L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>51</td>
<td><strong>FPI</strong> nylon PA12 corrugated, standard weight</td>
<td>✓ ✓ ✓ L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>51</td>
<td><strong>FPIH</strong> nylon PA12 corrugated, heavy weight</td>
<td>✓ ✓ ✓ L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>52</td>
<td><strong>FPY</strong> nylon PA6 corrugated, light weight</td>
<td>✓ ✓ ✓ L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>52</td>
<td><strong>FPADS</strong> nylon PA6 double slit corrugated</td>
<td>✓ ✓ ✓ L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>52</td>
<td><strong>FPP</strong> polypropylene corrugated, std weight</td>
<td>✓ ✓ L PP ✓ L L L L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>52</td>
<td><strong>FPP-NFR</strong> polypropylene corrugated, non flame retarded</td>
<td>✓ ✓ L PP ✓ L L L L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>52</td>
<td><strong>FPPH</strong> polypropylene corrugated, heavy weight</td>
<td>✓ ✓ L PP ✓ L L L L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>72</td>
<td><strong>FPCB</strong> pvc spiral reinforced black</td>
<td>X X X L X L X ✓ L L X L L L L X X</td>
</tr>
<tr>
<td>72</td>
<td><strong>FPCG</strong> pvc spiral reinforced grey</td>
<td>X X X L X L X ✓ L L X L L L L X X</td>
</tr>
<tr>
<td>72</td>
<td><strong>FPCGN</strong> pvc spiral reinforced green oil resistant</td>
<td>✓ ✓ ✓ ✓ X X X L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>72</td>
<td><strong>FPCBU</strong> pvc spiral reinforced blue high temperature</td>
<td>X X X L X L X ✓ L L X L L L L X X</td>
</tr>
<tr>
<td>74</td>
<td><strong>LPC</strong> smooth, pvc spiral reinforced</td>
<td>✓ ✓ ✓ ✓ X X X L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>74</td>
<td><strong>LPCO</strong> smooth pvc spiral orange ultra flexible</td>
<td>✓ ✓ ✓ ✓ X X X L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>74</td>
<td><strong>LPCGN</strong> smooth pvc spiral green oil resistant</td>
<td>✓ ✓ ✓ ✓ X X X L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>74</td>
<td><strong>LPCBU</strong> smooth pvc spiral blue high temperature</td>
<td>✓ ✓ ✓ ✓ X X X L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>76&amp;69</td>
<td><strong>FPL</strong> upvc corrugated</td>
<td>✓ ✓ ✓ L X L X ✓ L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>77</td>
<td><strong>FPY</strong> nylon PA6, large diameter, std weight</td>
<td>✓ ✓ ✓ L ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓</td>
</tr>
</tbody>
</table>

### Key
- ✓: Good resistance
- L: Limited resistance
- X: Poor resistance
- SS: Suitable with stainless steel fittings
- PP: Suitable with polypropylene fittings
### Non-Metallic Conduit and Fittings

<table>
<thead>
<tr>
<th>Chemicals</th>
<th>Non-Metallic Conduit and Fittings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Peroxide (30%)</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Hydrogen Peroxide (60%)</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Lactic Acid</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Lube</td>
<td>NYLON, HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Lube Oil</td>
<td>NYLON, HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Methylene Chloride</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Methanol</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>MEK</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Nitrile Acid (10%)</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Nitrile Acid (60%)</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Oxalic Acid</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Ozone (Gas)</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Paraffin Oil</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Petrol</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Phenol</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Silver Nitrate</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Sulfur Dioxide (Gas)</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Transformer Oil</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>1,1,1-Trichloroethane</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Turpentine</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Vegetable Oil</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Vinyl Acetate</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>Water</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
<tr>
<td>White Spirit</td>
<td>HDPE, LDPE, HDPE-LDPE blend, PP, PE, PVC, CPVC, PPR, PEX</td>
</tr>
</tbody>
</table>

For additional chemicals, higher concentrations, elevated temperatures or combinations of chemicals, please call +44 (0)1675 466900 for technical advice.

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

<table>
<thead>
<tr>
<th>Thread size</th>
<th>Outside diameter (mm)</th>
<th>Inside diameter (mm)</th>
<th>Pitch (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M12</td>
<td>12.0</td>
<td>10.4</td>
<td>1.5</td>
</tr>
<tr>
<td>M16</td>
<td>16.0</td>
<td>14.4</td>
<td>1.5</td>
</tr>
<tr>
<td>M20</td>
<td>20.0</td>
<td>18.4</td>
<td>1.5</td>
</tr>
<tr>
<td>M25</td>
<td>25.0</td>
<td>23.4</td>
<td>1.5</td>
</tr>
<tr>
<td>M32</td>
<td>32.0</td>
<td>30.4</td>
<td>1.5</td>
</tr>
<tr>
<td>M40</td>
<td>40.0</td>
<td>38.4</td>
<td>1.5</td>
</tr>
<tr>
<td>M50</td>
<td>50.0</td>
<td>48.4</td>
<td>1.5</td>
</tr>
<tr>
<td>M63</td>
<td>63.0</td>
<td>61.4</td>
<td>1.5</td>
</tr>
<tr>
<td>M75</td>
<td>75.0</td>
<td>73.4</td>
<td>1.5</td>
</tr>
</tbody>
</table>

### PG

German standard thread conforming to DIN40430

<table>
<thead>
<tr>
<th>Thread size</th>
<th>Outside diameter (mm)</th>
<th>Inside diameter (mm)</th>
<th>Pitch (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG7</td>
<td>12.5</td>
<td>11.3</td>
<td>1.27</td>
</tr>
<tr>
<td>PG9</td>
<td>15.2</td>
<td>13.9</td>
<td>1.41</td>
</tr>
<tr>
<td>PG13.5</td>
<td>20.4</td>
<td>19.1</td>
<td>1.41</td>
</tr>
<tr>
<td>PG16</td>
<td>22.5</td>
<td>21.2</td>
<td>1.41</td>
</tr>
<tr>
<td>PG21</td>
<td>28.3</td>
<td>26.8</td>
<td>1.59</td>
</tr>
<tr>
<td>PG29</td>
<td>37.0</td>
<td>35.5</td>
<td>1.59</td>
</tr>
<tr>
<td>PG36</td>
<td>47.0</td>
<td>45.5</td>
<td>1.59</td>
</tr>
<tr>
<td>PG42</td>
<td>54.0</td>
<td>52.5</td>
<td>1.59</td>
</tr>
<tr>
<td>PG48</td>
<td>59.3</td>
<td>57.8</td>
<td>1.59</td>
</tr>
</tbody>
</table>

### NPT

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

<table>
<thead>
<tr>
<th>Thread size (inches)</th>
<th>Outside diameter (mm)</th>
<th>Inside diameter (mm)</th>
<th>Pitch (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \frac{1}{8} )</td>
<td>16.7</td>
<td>13.7</td>
<td>1.14</td>
</tr>
<tr>
<td>( \frac{1}{4} )</td>
<td>21.0</td>
<td>17.8</td>
<td>1.81</td>
</tr>
<tr>
<td>( \frac{1}{2} )</td>
<td>26.4</td>
<td>22.3</td>
<td>1.81</td>
</tr>
<tr>
<td>1</td>
<td>33.3</td>
<td>30.0</td>
<td>2.21</td>
</tr>
<tr>
<td>1( \frac{1}{4} )</td>
<td>41.9</td>
<td>38.3</td>
<td>2.21</td>
</tr>
<tr>
<td>1( \frac{1}{2} )</td>
<td>47.8</td>
<td>44.2</td>
<td>2.21</td>
</tr>
<tr>
<td>2</td>
<td>59.6</td>
<td>56.7</td>
<td>2.31</td>
</tr>
</tbody>
</table>

### PF/gas

Japanese conduit thread conforming to JIS B 0202

<table>
<thead>
<tr>
<th>Thread size (inches)</th>
<th>Outside diameter (mm)</th>
<th>Inside diameter (mm)</th>
<th>Pitch (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \frac{1}{8} )</td>
<td>21.0</td>
<td>18.6</td>
<td>1.81</td>
</tr>
<tr>
<td>( \frac{1}{4} )</td>
<td>26.4</td>
<td>24.1</td>
<td>1.81</td>
</tr>
<tr>
<td>1</td>
<td>33.3</td>
<td>30.3</td>
<td>2.31</td>
</tr>
<tr>
<td>1( \frac{1}{4} )</td>
<td>41.9</td>
<td>39.0</td>
<td>2.31</td>
</tr>
<tr>
<td>1( \frac{1}{2} )</td>
<td>47.8</td>
<td>44.8</td>
<td>2.31</td>
</tr>
<tr>
<td>2</td>
<td>59.6</td>
<td>56.7</td>
<td>2.31</td>
</tr>
</tbody>
</table>

### UNEF/UNS/UN

American unified thread conforming to BS1580 used on circular connectors

<table>
<thead>
<tr>
<th>Thread size (inches)</th>
<th>Outside diameter (mm)</th>
<th>Inside diameter (mm)</th>
<th>Pitch (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \frac{1}{8} )</td>
<td>15.9</td>
<td>14.7</td>
<td>1.06</td>
</tr>
<tr>
<td>( \frac{1}{4} )</td>
<td>19.1</td>
<td>17.7</td>
<td>1.27</td>
</tr>
<tr>
<td>( \frac{1}{2} )</td>
<td>22.2</td>
<td>20.9</td>
<td>1.27</td>
</tr>
<tr>
<td>1</td>
<td>25.4</td>
<td>24.0</td>
<td>1.27</td>
</tr>
<tr>
<td>1( \frac{1}{2} )</td>
<td>30.2</td>
<td>28.6</td>
<td>1.41</td>
</tr>
<tr>
<td>1( \frac{3}{4} )</td>
<td>34.9</td>
<td>33.4</td>
<td>1.41</td>
</tr>
<tr>
<td>1( \frac{1}{2} )</td>
<td>31.8</td>
<td>30.2</td>
<td>1.41</td>
</tr>
<tr>
<td>1( \frac{3}{4} )</td>
<td>36.5</td>
<td>35.0</td>
<td>1.41</td>
</tr>
<tr>
<td>1( \frac{7}{8} )</td>
<td>44.5</td>
<td>42.9</td>
<td>1.41</td>
</tr>
<tr>
<td>2</td>
<td>50.8</td>
<td>49.3</td>
<td>1.41</td>
</tr>
<tr>
<td>2( \frac{1}{4} )</td>
<td>57.2</td>
<td>55.4</td>
<td>1.41</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Nominal conductor size (mm²)</th>
<th>Nominal overall cross sectional area (mm²) of cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>6.6</td>
</tr>
<tr>
<td>1.5</td>
<td>7.6</td>
</tr>
<tr>
<td>2.5</td>
<td>9.6</td>
</tr>
<tr>
<td>4.0</td>
<td>14.5</td>
</tr>
<tr>
<td>6.0</td>
<td>18.8</td>
</tr>
<tr>
<td>10.0</td>
<td>29.3</td>
</tr>
<tr>
<td>16.0</td>
<td>40.2</td>
</tr>
<tr>
<td>25.0</td>
<td>63.8</td>
</tr>
<tr>
<td>35.0</td>
<td>83.5</td>
</tr>
<tr>
<td>50.0</td>
<td>113.0</td>
</tr>
<tr>
<td>70.0</td>
<td>149.0</td>
</tr>
<tr>
<td>95.0</td>
<td>204.0</td>
</tr>
</tbody>
</table>

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 \( 3.142 \times \left( \frac{1}{2} \times 20^2 \right) = 201 \text{mm}² \)
- \( \% \text{ of conduit cross sectional area} = \frac{73}{201} = 36\% \)

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)

<table>
<thead>
<tr>
<th>1st digit</th>
<th>Protection against solid objects</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No protection</td>
</tr>
<tr>
<td>1</td>
<td>Protected against objects greater than 50mm</td>
</tr>
<tr>
<td>2</td>
<td>Protected against objects greater than 12mm</td>
</tr>
<tr>
<td>3</td>
<td>Protected against objects greater than 2.5mm</td>
</tr>
<tr>
<td>4</td>
<td>Protected against objects greater than 1.0mm</td>
</tr>
<tr>
<td>5</td>
<td>Ingress of dust is not totally prevented but dust does not enter in harmful quantities</td>
</tr>
<tr>
<td>6</td>
<td>No ingress of dust</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2nd digit</th>
<th>Protection against water</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No protection</td>
</tr>
<tr>
<td>1</td>
<td>Protected against falling drops</td>
</tr>
<tr>
<td>2</td>
<td>Protected against drops falling at 15°</td>
</tr>
<tr>
<td>3</td>
<td>Low pressure spray – similar to shower head at up to 60° from vertical</td>
</tr>
<tr>
<td>4</td>
<td>Low pressure spray – similar to shower head – from any angle for 5 minutes</td>
</tr>
<tr>
<td>5</td>
<td>Medium pressure jet – similar to garden hose – from any angle for 3 minutes</td>
</tr>
<tr>
<td>6</td>
<td>High pressure jet – similar to fire hose – from any angle for 3 minutes</td>
</tr>
<tr>
<td>7</td>
<td>Submersion at 1 metre for 30 minutes</td>
</tr>
<tr>
<td>8</td>
<td>Higher water pressure eg: 2 bar for 2 hours. Conduits are tested in-house at up to 10 bar. (equivalent to 100m underwater)</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Level</th>
<th>1st digit</th>
<th>2nd digit</th>
<th>3rd digit</th>
<th>4th digit</th>
<th>5th digit</th>
<th>6th digit</th>
<th>7th digit</th>
<th>8th digit</th>
<th>9th digit</th>
<th>10th digit</th>
<th>11th digit</th>
<th>12th digit</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>1</td>
<td>V. Light (125)</td>
<td>V. Light (0.5)</td>
<td>5</td>
<td>60</td>
<td>Rigid</td>
<td>Continuous</td>
<td>1</td>
<td>Low in &amp; out</td>
<td>V. Light (100)</td>
<td>Non Flame Propogating</td>
<td>V. Light (20)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Light (320)</td>
<td>Light (1)</td>
<td>-5</td>
<td>90</td>
<td>Pliable</td>
<td>Insulating</td>
<td>2</td>
<td>Medium in &amp; out</td>
<td>Light (250)</td>
<td>Flame Propogating</td>
<td>Light (30)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Medium (750)</td>
<td>Medium (2)</td>
<td>-15</td>
<td>105</td>
<td>Pliable self recoving</td>
<td>Continuous + Insulating</td>
<td>3</td>
<td>Medium in &amp; high out</td>
<td>Medium (500)</td>
<td>Medium (150)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Heavy (1250)</td>
<td>Heavy (6)</td>
<td>-25</td>
<td>120</td>
<td>Flexible</td>
<td>4</td>
<td>4</td>
<td>High in &amp; out</td>
<td>Heavy (1000)</td>
<td>Heavy (450)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>V. Heavy (4000)</td>
<td>V. Heavy (20)</td>
<td>-45</td>
<td>150</td>
<td>5</td>
<td>5</td>
<td>V. Heavy (2500)</td>
<td>V. Heavy (850)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>250</td>
<td>6</td>
<td>6</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>400</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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.**

**Buyer beware**

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**

<table>
<thead>
<tr>
<th>level</th>
<th>1st digit</th>
<th>2nd digit</th>
<th>3rd digit</th>
<th>4th digit</th>
<th>5th digit</th>
<th>6th digit</th>
<th>7th digit</th>
<th>8th digit</th>
<th>9th digit</th>
<th>10th digit</th>
<th>11th digit</th>
<th>12th digit</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>1</td>
<td>V. Light (125)</td>
<td>V. Light (0.5)</td>
<td>5</td>
<td>60</td>
<td>Rigid</td>
<td>Continuous</td>
<td>1</td>
<td>Low in &amp; out</td>
<td>V. Light (100)</td>
<td>Non Flame Propogating</td>
<td>V. Light (20)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Light (320)</td>
<td>Light (1)</td>
<td>-5</td>
<td>90</td>
<td>Pliable</td>
<td>Insulating</td>
<td>2</td>
<td>Medium in &amp; out</td>
<td>Light (250)</td>
<td>Flame Propogating</td>
<td>Light (30)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Medium (750)</td>
<td>Medium (2)</td>
<td>-15</td>
<td>105</td>
<td>Pliable self recoving</td>
<td>Continuous + Insulating</td>
<td>3</td>
<td>Medium in &amp; high out</td>
<td>Medium (500)</td>
<td>Medium (150)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Heavy (1250)</td>
<td>Heavy (6)</td>
<td>-25</td>
<td>120</td>
<td>Flexible</td>
<td>4</td>
<td>4</td>
<td>High in &amp; out</td>
<td>Heavy (1000)</td>
<td>Heavy (450)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>V. Heavy (4000)</td>
<td>V. Heavy (20)</td>
<td>-45</td>
<td>150</td>
<td>5</td>
<td>5</td>
<td>V. Heavy (2500)</td>
<td>V. Heavy (850)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>250</td>
<td>6</td>
<td>6</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>400</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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. 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 uprated 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.
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. 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.

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.

**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) 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.

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.
- **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.

**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.

**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

**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. 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.

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

#### 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

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.
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPC90-20-M20</td>
<td>73</td>
</tr>
<tr>
<td>MPC90-20-PG16</td>
<td>73</td>
</tr>
<tr>
<td>MPC90-20-M50</td>
<td>73</td>
</tr>
<tr>
<td>MPC90-25-PG21</td>
<td>73</td>
</tr>
<tr>
<td>MPC90-25-M32</td>
<td>73</td>
</tr>
<tr>
<td>MPC90-32-PG29</td>
<td>73</td>
</tr>
<tr>
<td>MPC90-40-PG36</td>
<td>73</td>
</tr>
<tr>
<td>MPS-106-FL</td>
<td>77</td>
</tr>
<tr>
<td>MPS-12-M16</td>
<td>70</td>
</tr>
<tr>
<td>MPS-16-M16</td>
<td>70</td>
</tr>
<tr>
<td>MPS-16-M20</td>
<td>70</td>
</tr>
<tr>
<td>MPS-20-M20</td>
<td>70</td>
</tr>
<tr>
<td>MPS-25-M25</td>
<td>70</td>
</tr>
<tr>
<td>MPS-25-M25</td>
<td>70</td>
</tr>
<tr>
<td>MPS-32-M32</td>
<td>70</td>
</tr>
<tr>
<td>MPS-40-M40</td>
<td>70</td>
</tr>
<tr>
<td>MPS-50-M50</td>
<td>70</td>
</tr>
<tr>
<td>MPS-85-FL</td>
<td>77</td>
</tr>
<tr>
<td>MPS90-106-FL</td>
<td>77</td>
</tr>
<tr>
<td>MPS90-16-M16</td>
<td>70</td>
</tr>
<tr>
<td>MPS90-16-M20</td>
<td>70</td>
</tr>
<tr>
<td>MPS90-20-M20</td>
<td>70</td>
</tr>
<tr>
<td>MPS90-25-M25</td>
<td>70</td>
</tr>
<tr>
<td>MPS90-25-M25</td>
<td>70</td>
</tr>
<tr>
<td>MPS90-32-M32</td>
<td>70</td>
</tr>
<tr>
<td>MPS90-40-M40</td>
<td>70</td>
</tr>
<tr>
<td>MSS-M16</td>
<td>78</td>
</tr>
<tr>
<td>MSS-M20</td>
<td>78</td>
</tr>
<tr>
<td>MSS-M20</td>
<td>78</td>
</tr>
<tr>
<td>MSS-M25</td>
<td>78</td>
</tr>
<tr>
<td>MSS-M32</td>
<td>78</td>
</tr>
<tr>
<td>MSS-M40</td>
<td>78</td>
</tr>
<tr>
<td>MSS-M50</td>
<td>78</td>
</tr>
<tr>
<td>MSS-M50</td>
<td>78</td>
</tr>
<tr>
<td>MSS-M63</td>
<td>78</td>
</tr>
<tr>
<td>SP-M12</td>
<td>78</td>
</tr>
<tr>
<td>SP-M16</td>
<td>78</td>
</tr>
<tr>
<td>SP-M20</td>
<td>78</td>
</tr>
<tr>
<td>SP-M20</td>
<td>78</td>
</tr>
<tr>
<td>SP-M25</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG11</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG11</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG16</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG16</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG21</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG21</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG29</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG7</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG7</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG9</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG9</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG11</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG11</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG13</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG13</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG16</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG16</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG21</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG21</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG29</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG7</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG7</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG9</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG9</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG11</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG11</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG13</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG13</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG16</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG16</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG21</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG21</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG29</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG7</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG7</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG9</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG9</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG11</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG11</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG13</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG13</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG16</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG16</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG21</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG21</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG29</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG7</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG7</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG9</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG9</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG11</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG11</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG13</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG13</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG16</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG16</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG21</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG21</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG29</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG7</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG7</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG9</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG9</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG11</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG11</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG13</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG13</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG16</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG16</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG21</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG21</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG29</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG7</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG7</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG9</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG9</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG11</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG11</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG13</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG13</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG16</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG16</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG21</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG21</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG29</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG7</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG7</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG9</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG9</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG11</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG11</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG13</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG13</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG16</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG16</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG21</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG21</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG29</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG7</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG7</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG9</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG9</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG11</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG11</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG13</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG13</td>
<td>78</td>
</tr>
<tr>
<td>SP-PG16</td>
<td>78</td>
</tr>
</tbody>
</table>

www.flexicon.uk.com
Flexicon Limited (Head Office)
A Roman Way, Coleshill, Birmingham, B46 1HG, United Kingdom
T +44 (0)1675 466900
F +44 (0)1675 466901
E sales@flexicon.uk.com
W www.flexicon.uk.com

Flexicon in Europe
E sales@flexicon.eu.com
W www.flexicon.eu.com

Flexicon in USA
E sales@flexicon.us.com
W www.flexicon.us.com

Flexicon Australia Pty Limited
T National Sales Hotline: 1300 00 FLEX (3539)
F sales@flexiconaustralia.com
W www.flexiconaustralia.com

Sydney Office
A 1/38 Binney Road, Kings Park, NSW 2148
F +61 (0)2 8884 3889

Melbourne Office
A Unit 6/60 Stubbs Street, Flemington, VIC 3031
F +61 (0)3 9372 3448