



# Large diameter systems nylon and polypropylene

NEW

IP40

IP65

IP67<sup>+</sup>

IP68<sup>+</sup>

## Conduit

EN 45545-2 NFPA 130

### LDFPAL

**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)
- Highly resistant to solvents and oils
- Self extinguishing
- Halogen, sulphur and phosphorus free

### LDFPAS

**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
- Low Fire Hazard (LFH), see page 149
- UL 94 V2 flame retardancy
- Halogen, sulphur and phosphorus free
- UV resistant (black)
- Abrasion resistant
- Highly resistant to solvents and oils

### LDFPIH

**Construction:** Heavy weight nylon (PA12) corrugated flexible conduit.

**Colour:** Black.

**Typical Applications:**

Robots and continual flexing where higher mechanical strength required.

- Highly flexible and high fatigue life
- High mechanical strength
- High impact resistance even at very low temperatures
- UV resistant
- Displays self recovery if crushed
- Temperature range -50°C to +110°C
- Highly resistant to solvents and oils
- Self extinguishing
- Halogen, sulphur and phosphorus free
- Low Fire Hazard (LFH), see page 149

Also available in extra low fire hazard version - FPIHR see page 45

### LDFPR

**Construction:** Standard weight nylon (highly flame retardant PA6) corrugated flexible conduit.

**Colour:** Black.

**Typical Applications:**

Railways, underground and 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
- Extra Low Fire Hazard (LFH)
- Compliant to LUL Std S1085
- UL 94 V0 flame retardancy
- Halogen, sulphur and phosphorus free
- UV resistant
- Abrasion resistant
- Highly resistant to solvents and oils

### LDFPP

**Construction:** Standard weight polypropylene, flexible conduit.

**Colour:** Black, Grey (RAL 7031) or White (see page 46)

**Typical Applications:**

Buildings, particularly where buried in concrete or plaster.

- Acid resistant
- Temperature range -20°C to +90°C
- Self extinguishing

| european (NW) sizes<br>nominal size (mm) |     | LDFPAL      |                 |                  |                 |                             | LDFPAS      |                 |                  |                 |                             | LDFPIH      |                 |                  |                 |                             | LDFPR       |                 |                  |                 |                             | LDFPP       |                 |                  |                 |                             |
|------------------------------------------|-----|-------------|-----------------|------------------|-----------------|-----------------------------|-------------|-----------------|------------------|-----------------|-----------------------------|-------------|-----------------|------------------|-----------------|-----------------------------|-------------|-----------------|------------------|-----------------|-----------------------------|-------------|-----------------|------------------|-----------------|-----------------------------|
|                                          |     | part number | reel length (m) | outside dia (mm) | inside dia (mm) | min inside bend radius (mm) | part number | reel length (m) | outside dia (mm) | inside dia (mm) | min inside bend radius (mm) | part number | reel length (m) | outside dia (mm) | inside dia (mm) | min inside bend radius (mm) | part number | reel length (m) | outside dia (mm) | inside dia (mm) | min inside bend radius (mm) | part number | reel length (m) | outside dia (mm) | inside dia (mm) | min inside bend radius (mm) |
| 70                                       | 80  | LDFPAL80    | 10              | 80.0             | 67.0            | 150                         | LDFPAS80    | 10              | 80.0             | 67.0            | 160                         | LDFPIH80    | 10              | 80.0             | 66.5            | 170                         | LDFPR80     | 10              | 80.0             | 67.0            | 160                         | LDFPP80     | 10              | 80.0             | 67.0            | 300                         |
| 95                                       | 106 | LDFPAL106*  | 10              | 106.0            | 91.8            | 210                         | LDFPAS106   | 10              | 106.0            | 91.5            | 210                         | LDFPIH106*  | 10              | 106.0            | 91.0            | 250                         | LDFPR106*   | 10              | 106.0            | 91.5            | 210                         | LDFPP106*   | 10              | 106.0            | 91.5            | 400                         |

Refer to page 44 for other materials

## Ordering Notes

- Specify black or grey (B = Black, G = Grey)  
eg: LDFPAS80B-10M for Black 10m reel
- Available on request:
  - longer lengths and bulk packaging
  - cut lengths and assemblies
  - alternative conduit material
- FCC75 and FCC106 PVC lined plated steel P-clips
- 80mm can be used with F-Clamps - see page 76
- \* Indicates parts made to order on request and may be subject to MOQ and lead time

+ Contact Flexicon for more details

## Standards

BS EN IEC 61386

