

non-metallic conduit and fittings

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

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

FPAS



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

Typical Applications: All types of machinery, public buildings.

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

FPAL

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

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

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



| european (NW) sizes nominal size (mm) pitch | FPAS | | | | | FPAL | | | | |
|---|-------------|-----------------|------------------|-----------------|-----------------------------|-------------|-----------------|------------------|-----------------|-----------------------------|
| | 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) |
| 7 10 F | FPAS10 | 50 | 10.0 | 6.3 | 15 | FPAL10 | 50 | 10.0 | 6.5 | 15 |
| 8 11 F | FPAS11 | 50 | 11.5 | 8.2 | 20 | FPAL11 | 50 | 11.5 | 8.4 | 20 |
| 10 13 F | FPAS13 | 50 | 13.0 | 9.8 | 25 | FPAL13 | 50 | 13.0 | 10.0 | 25 |
| 12 16 F | FPAS16 | 25, 50 | 15.8 | 11.8 | 35 | FPAL16 | 50 | 15.8 | 12.0 | 35 |
| 14 18 F | FPAS18 | 50 | 18.5 | 14.2 | 40 | FPAL18 | 50 | 18.5 | 14.2 | 35 |
| 20 C | FPAS20 | 50 | 20.0 | 14.8 | 45 | FPAL20 | 50 | 20.0 | 15.0 | 40 |
| 17 21 F | FPAS21 | 25, 50 | 21.2 | 16.7 | 45 | FPAL21 | 50 | 21.2 | 16.9 | 40 |
| 21 C | | | | | | | | | | |
| 25 C | FPAS25 | 50 | 25.0 | 19.1 | 50 | FPAL25 | 50 | 25.0 | 19.3 | 45 |
| 22 25.4 F | | | | | | | | | | |
| 23 28 F | FPAS28 | 25, 50 | 28.5 | 22.8 | 50 | FPAL28 | 50 | 28.5 | 23.0 | 45 |
| 28 C | FPAS28C* | 50 | 28.5 | 21.6 | 50 | | | | | |
| 29 34 C | FPAS34 | 25, 50 | 34.5 | 28.1 | 60 | FPAL34 | 25, 50 | 34.5 | 28.3 | 55 |
| 29 34 F | FPAS34F | 25, 50 | 34.5 | 28.8 | 60 | | | | | |
| 36 42 C | FPAS42 | 10, 25 | 42.5 | 35.5 | 70 | FPAL42 | 25 | 42.5 | 35.7 | 65 |
| 48 54 C | FPAS54 | 10, 25 | 54.5 | 47.2 | 80 | FPAL54 | 25 | 54.5 | 47.4 | 80 |
| 56 67 C | FPAS67 | 10 | 67.2 | 56.3 | 130 | FPAL67 | 10 | 67.2 | 56.5 | 110 |

F = fine pitch C = coarse pitch

NOTE: Other reel lengths are available upon request

ORDERING NOTES

- Specify black or grey (B = Black, G = Grey) and reel length eg: FPAS21B-50M for a Black 50m reel
- See cutting tool page 81
- * Indicates parts made to order on request and may be subject to MOQ and lead time

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

