

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

