


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.



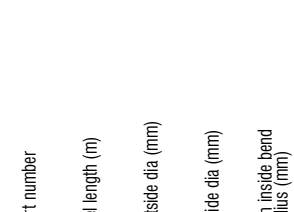
### FPIH

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

**Color:** 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
- UL recognized
- Highly resistant to solvents and oils
- Self extinguishing
- Halogen, sulphur and phosphorus free



### FPIHR

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

**Color:** Black.

**Typical Applications:** Where continual movement or flexing is required, with a higher mechanical strength even at very low temperatures such as on Bogies or Intercar Jumper assemblies. Rolling Stock applications requiring a superior level of fire performance.

- 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
- Extra Low Fire Hazard (LFH)
- Halogen, sulphur and phosphorus free
- EN 45545 and NFPA 130

FPIH	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)
FPIH13	50	13.0	9.0	25	
FPIH16	50	15.8	11.5	35	
FPIH21	50	21.2	15.0	45	
FPIH28	50	28.5	21.3	50	
FPIH34	25	34.5	27.6	60	
FPIH42	25	42.5	34.6	70	
FPIH54	25	54.5	46.0	80	
FPIH67	10	67.2	56.0	130	

FPIHR	part number	reel length (m)	outside dia (mm)	inside dia (mm)	min inside bend radius (mm)	European (NW) sizes	nominal size (mm)	pitch
FPIHR13	50	13.0	9.0	25	7	10	F	
FPIHR16	50	15.8	11.5	35	10	13	F	
FPIHR21	50	21.2	15.0	45	12	16	F	
FPIHR28	50	28.5	21.3	50	17	21	F	
FPIHR34	25	34.5	27.6	60	21	21	C	
FPIHR42	25	42.5	34.6	70	23	28	C	
FPIHR54	25	54.5	46.0	80	29	34	C	
FPIHR67	10	67.2	56.0	130	36	42	C	
					48	54	C	
					56	67	C	

## Standards



BS EN IEC 61386