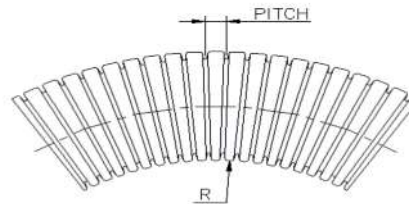
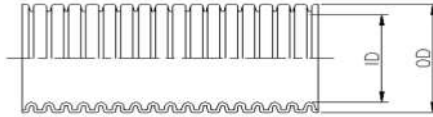
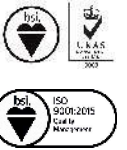


Technical Data Sheet	DS081-3
Product Description	Heavy weight nylon (very highly flame retardant PA12) corrugated flexible conduit
Product Range	FPIHRL - Non-Metallic Conduits

Roman Way, Coleshill
Birmingham, B46 1HG
(t) +44 (0)1675 466900

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Flexiconsales@atkore.com



Conduit complete with FPA & FPAU fitting

Material
Nylon PA12
(Very highly flame retardant)

Colour
Black

Fire Performance
Very highly flame retardant,
halogen free

EN 45545-2
EXTRA LOW FIRE HAZARD
HL3 R23 Exterior
HL2 R22 Interior

IP Rating

IP66
with FPA fittings

IP66 IP67 IP68 IP69
With FPAU fittings

Applications

FPIHRL conduit is highly flexible and ideal for constant moving applications.

FPIHRL conduit provides excellent resistance to UV, abrasion, oil and solvents, and with its increased high impact strength and abrasion resistance is an ideal product for external applications, especially for the underside of railway carriages.

Pull-off (Tensile) strength

35kg (340N) FPA & FPAU fittings

Temperature Performance

-50°C to +110°C

Nominal Size	Pitch F= fine C= coarse	Part No	Dimensions and mechanical properties					
			Reel Length (M)	OD (mm)	ID (mm)	Min Bend radius R (mm) Static	Min Bend radius R (mm) Dynamic	Compression Strength kg/100mm
13	F	FPIHRL13B	50	13.0	9.0	25	50	42
16	F	FPIHRL16B	50	15.8	11.5	35	65	42
21	C	FPIHRL21B	50	21.2	15.0	45	85	67
28	C	FPIHRL28B	50	28.5	21.3	50	110	67
34	C	FPIHRL34B	25	34.5	27.6	60	120	52
42	C	FPIHRL42B	25	42.5	34.6	70	150	42
54	C	FPIHRL54B	25	54.5	46.0	80	190	35
67	C	FPIHRL67B	10	67.2	55.8	130	270	TBC

Compliance, Approvals & Accreditation;



EN 61386 Classification Available on request

Typical Applications;



Errors, omissions and amendments excepted. As part of continuing product development Flexicon Ltd reserve the right to alter product specifications without prior notice. Data given is correct at time of compilation. Product specification and application data is for guidance only and does not constitute a warranty of any kind, either expressed or implied for Flexicon products or their suitability for a specific purpose. Third party approvals maybe limited to certain sizes within a product range.

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Technical Properties			
Description	Standard	Report No.	Rating
Temperature range	BS EN 61386		-50°C - +110°C
EN61386 classification	BS EN 61386		2353
Fatigue life			High
Self recovery if crushed			Yes
Water and dust resistant			Yes
Abrasion resistant			Yes
UV performance			High

Mechanical Properties			
Description	Standard	Report No.	Rating
Impact strength -15C	BS EN 61386	TR1110	> 6J
Impact strength -45C	BS EN 61386	TR1110	> 2J
Compression strength	BS EN 61386	TR1127	> Class 2
IP66 with FPA / FPAU fittings	BS EN 60529	TR1114	Pass
IP68 / IP69 with FPAU fittings	BS EN 60529	TR1114	Pass

Fire Performance			
Description	Standard	Report No.	Rating
EN45545-2 R23 exterior	EN45545-2	TR1118	HL3
EN45545-2 R22 interior	EN45545-2	TR1118	HL2
Limiting oxygen index	ISO4589	TR1115	> 28%
Smoke	ISO5659	TR1116	< 300 Dsmax
Toxicity	NFX 70-100	TR1117	CIT < 0.2