

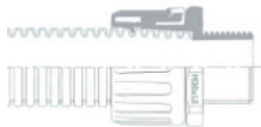
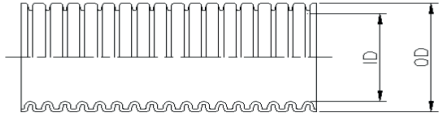
Technical Data Sheet	DS027-3
Product Description	Heavy weight nylon (flame retardant PA12) corrugated flexible conduit
Product Range	FPIH - Non-Metallic Conduits

Atkore™

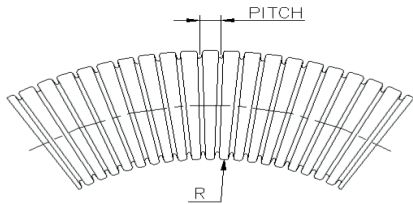
Flexicon



www.atkore.com/flexicon



Conduit complete with FPA fitting



Material

Nylon PA12
(Flame Retardant)

Colour

Black

Fire Performance

Highly flame retardant,
halogen, sulphur and
phosphorous free



IP Rating

IP66

with FPA fittings

IP66

IP67

IP68

IP69

with FPAU fittings

Applications

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

FPIH 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 both internal and external
applications, especially for
underside and inter-vehicle
coupling applications.

Compression Strength

60kg/100mm
(21 mm size)

Pull-off (Tensile) strength

50kg FPA & FPAU fittings

Temperature Performance

-50°C to +110°C

Nominal Size	Pitch F= fine C= coarse	Part No	Dimensions and mechanical properties					Weight g/M
			Reel Length (M)	OD (mm)	ID (mm)	Min Bend radius R (mm)	Compression Strength kg/100mm	
13	F	FPIH13B	50	13.0	9.0	25	70	31
16	F	FPIH16B	50	15.8	11.5	35	70	42
21	C	FPIH21B	50	21.2	15.0	45	60	75
28	C	FPIH28B	50	28.5	21.3	50	110	120
34	C	FPIH34B	25	34.5	27.6	60	90	150
42	C	FPIH42B	25	42.5	34.6	70	100	190
54	C	FPIH54B	25	54.5	46.0	80	100	250
67	C	FPIH67B	10	67.2	56	130	80	350

Compliance, Approvals & Accreditation;



IEC EN 61386



File No. E229161

EN 61386 Classification Available on request

Typical Applications;



Rail



Machinery and OEM's

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.

Created by; Colin Legg - Product Manager	Approved by; Richard Elsmore - Engineering Manager	Date; October 2024	Page Number; Page 1 of 2
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Technical Data Sheet	DS027-3
Product Description	Heavy weight nylon (flame retardant PA12) corrugated flexible conduit
Product Range	FPIH - Non-Metallic Conduits



Technical Properties and Performance	
Detail	Rating
Highly flexible with exceptional fatigue life	Yes
IP (Ingress Protection) rating with FPA fittings	IP66
IP (Ingress Protection) rating with FPAU Fittings	IP66, 67, 68, 69
Temperature range	-50°C to +110°C
Displays self recovery if crushed	Yes
Water and dust resistant	Yes
Abrasion resistant	Yes
High impact strength (at -60 ° C) (BSI Report No. 286/4594666)	> 6 Joules
UV resistant (UL Report No. CA1350836)	Yes

Fire Performance	
Limiting Oxygen index to ISO 4589 (Exova Report No. 197372)	26.7%
Maximum smoke opacity to BS 6853 annex D8.3 (WFRC Report No. 141493)	AO = 0.045
Toxicity Index to BS 6853 B.1 (WFRC Report No. 141181)	R=1.32
Toxicity Index to NFX70-100 (WFRC Report No. 141181)	CIT=24.99
Ignition and fume rating to NFF16-101/2 (RAPRA Report No. 43386)	I4F2
Self Extinguishing to EN61386-1 (BSI Report No. 2381/7847798)	Yes
Burning behaviour to DIN5510 (CSI Report No. 16017)	S4 SR2 ST2
Russian Fire Safety Certificate No. 1374363	Yes
Smoke to ASTM E662 (Exova Report No. 14-002-307)	Yes

Other Variations Available	
Flexicon Reference	Description
FPIHSS	As FPIH but with 316 Stainless Steel Overbraid
FPI	Standard weight nylon (flame retardant PA12) corrugated flexible conduit

Other Variants Available



FPIHSS



Construction: Heavy weight, corrugated nylon (PA12), with stainless steel (316) overbraid.

Typical Applications: Under railway carriages where low temperatures, abrasion, impact and regular movement occurs.