

Technical Data Sheet:	DS013-4
Product Description	Galvanised steel helically wound flexible steel conduit with Polyolefin extra low fire hazard coating
Product Range	LFHU - Metallic Conduits

Atkore™

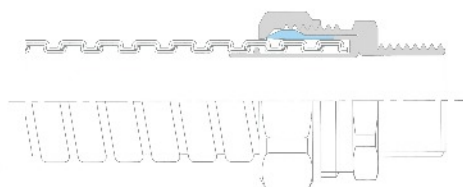
Flexicon



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LFHU Conduit - Black



Conduit complete with C type fitting

Material;

Galvanised Steel Conduit with Polyolefin extra low fire hazard coating

Colour:

Black

Fire Performance:

Highly flame retardant, Low smoke, low toxicity, self extinguishing, halogen, sulphur and phosphorous free



IP Rating:

- IP54 with M, S, P or F type fittings
- IP65 with C, C-S and C90 type fittings

Applications:

LFHU conduit provides high mechanical strength and is highly flexible.

Ideal for use in public and commercial buildings and tunnels.

Compression Strength:

350kg/100mm (20mm size)

Pull-off (Tensile) strength :

120kg (20mm size)

Temperature Performance:

-25°C to +90°C

Nominal Size	Part No	Nom. Dimensions and Mechanical Properties			
		Reel Length (M)	OD (mm)	ID (mm)	Min inside Bend radius R (mm)
12	LFHU12B	25	14.2	10.0	40
16	LFHU16B	25, 50	17.1	12.9	45
20	LFHU20B	25, 50	21.6	16.8	50
25	LFHU25B	25	26.0	20.9	60
32	LFHU32B	25	34.0	27.8	90
40	LFHU40B	10	44.2	37.3	120
50	LFHU50B	10	55.0	48.0	130
63	LFHU63B	10	64.5	57.0	160
75	LFHU75B	10	79.2	69.4	190

Compliance, Approvals & Accreditation;



IEC EN 61386



BS EN 45545

EN 61386 Classification Available on request

COMPLIANT TO LUL STANDARD 1-085-A3

London Underground Certificate No. 297

Vibration and Shock tested to EN61373 Cat 2

Lloyds Register of shipping Type Approved

Typical Applications;



Construction



Rail

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Created by;

Colin Legg - Marketing Director

Approved by;

Alex Smith - Technical Director

Date;

July 2023

Page Number;

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General Performance	
Highly Flexible	Yes
High Tensile strength and does not extend kg for 20mm	120 kg
Compression strength kg/100mm for 20mm size	350 kg
Temperature Range	-25° to + 90 ° C
Oil resistant	Yes
Ingress Protection IP54 with M,S,P or F type fittings IP65 with C or C90 fittings	IP54 IP65
Fire Performance	
Classification to BS EN 45545 (Exova Report No.3602262, 360263, 360269)	HL3 - Int & Ext
Self Extinguishing to EN 61386-1 (BSI Report No. 23817847798)	Yes
Limiting Oxygen index to ISO 4589-2 (Exova Report No. 360262)	48.3%
Smoke opacity to BS6853 annex D8.3 (Exova report 322252)	A0 = 0.0131
Toxicity index to BS 6853 B.1 NF X 70-100 (Exova report 322251)	R = 0.27
Classification to BS 6853 (Exova report)	Cat 1a int and ext
London Underground Product Registration to 1-085-A3	Cert 297
Halogen acid gas content to IEC 60754-1	Zero
Sulphur and phosphorus free	Yes
Temperature index to ISO 4589-3	300 C
Halogen acid gas evolution to IEC 60754-1	0%
Corrosivity of gases to IEC 60754-2	4.5 pH
Conductivity of gases to IEC 60754-2	42µS/cm
Smoke density to ASTM E-662, flaming mode	Ds max = 48 after 11 min
Smoke density to ASTM E-662, non-flaming mode	Ds max = 350 after 12 min
Smoke density to NES 711	Ds max = 141 after 5 min
Toxicity index to NES713	1.6

Other Variants Available:




LFHUBRD

Construction: Galvanised steel, helically wound, flexible conduit with extra LFH coating and stainless steel (316) overbraid.

Typical Applications: Underground stations where LFH, EMC screening and anti-vandal properties are required. Fully compliant to LUL std 2-01001-002:A1.



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