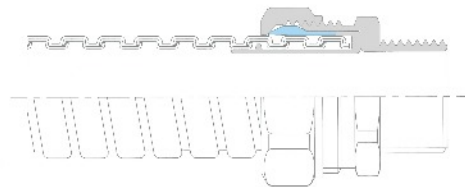


|                              |   |
|------------------------------|---|
| <b>Technical Data Sheet:</b> | <b>DS013/0216</b>   |
| <b>Product Description</b>   | Galvanised steel helically wound flexible steel conduit with Polyolefin extra low fire hazard coating |
| <b>Product Range</b>         | <b>LFHU - Metallic Conduits</b>   |

Roman Way, Coleshill  
Birmingham  
B46 1HG  
Tel: 00 44 (0)1675 466900  
Website: www.flexicon.uk.com



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    | 30                            |
| 16           | LFHU16B | 25, 50                                    | 17.1    | 12.9    | 40                            |
| 20           | LFHU20B | 25, 50                                    | 21.6    | 16.8    | 45                            |
| 25           | LFHU25B | 25  | 26.0    | 20.9    | 55                            |
| 32           | LFHU32B | 25  | 34.0    | 27.8    | 60                            |
| 40           | LFHU40B | 10  | 44.2    | 37.3    | 80                            |
| 50           | LFHU50B | 10  | 55.0    | 48.0    | 90                            |
| 63           | LFHU63B | 10  | 64.5    | 57.0    | 115                           |
| 75           | LFHU75B | 10  | 79.2    | 69.4    | 150                           |

**Compliance, Approvals & Accreditation;**



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

Russian Fire Safety Certificate No. 000166

**Typical Applications;**



Construction



Rail




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:<br><b>Colin Legg - Marketing Manager</b> | Approved by:<br><b>Ian Gibson - Technical Director</b> | Date:<br><b>February 2016</b> | Page Number:<br><b>Page 1 of 2</b> |
|--|--|-------------------------------|------------------------------------|

|                              |   |
|------------------------------|---|
| <b>Technical Data Sheet:</b> | <b>DS013/0216</b>   |
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**FLEXICON**  
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 Birmingham  
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 Website: www.flexicon.uk.com

| <b>General Performance</b>  |                           |
|---|---------------------------|
| 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<br>IP54 with M,S,P or F type fittings<br>IP65 with C or C90 fittings | IP54<br>IP65              |
| <b>Fire Performance</b>   |                           |
| 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                       |
| Russian Fire Safety Certificate No. 000166  | Yes                       |

|  |   |   |                                    |
|--|---|---|------------------------------------|
| <b>Other Variants Available:</b>   |   |   |                                    |
| <br> | <b>LFHUBRD</b><br>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. |   |                                    |
| Created by:<br><b>Colin Legg - Marketing Manager</b>   | Approved by:<br><b>Ian Gibson - Technical Director</b>  | Date:<br><b>February 2016</b>   | Page Number:<br><b>Page 2 of 2</b> |