



Technical Specifications

LIQUID-TUFF™

Non-UL Extreme Temperature Liquidtight Flexible Metal Conduit

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Scope

This specification covers AFC Cable Systems, Inc. LIQUID-TUFF™ Non-UL EXTREME TEMPERATURE Liquidtight, Flexible Metal Conduit designed for use as a raceway for power, control and communications cables in commercial and industrial applications where operation at a high temperature is required. The product is appropriate for intermittent use at 150°C (302°F) and continuous use at 135°C (275°F) in a dry location, 60°C in a wet location or 60°C in an oily location. The LIQUID-TUFF™ EXTREME TEMPERATURE jacket material is halogen-free, meets UL 94HB flammability requirements and has a low temperature brittle point of -60°C (-76°F).

Construction

The Non-UL EXTREME TEMPERATURE Liquidtight, Flexible Steel Conduit core shall be formed into a very flexible interlocked steel conduit from a zinc coated galvanized low carbon steel strip having a uniform width and thickness. The convolutions of the interlock shall be filed with a fibrous material designed to promote flexibility.

Jacket

A rugged moisture, oil and ozone resistant thermoplastic elastomer jacket shall be extruded directly over the interlocked very flexible steel core. The jacket is halogen free, has a UL 94HB Flammability Rating and has a -60°C (-76°F) Low Temperature Brittle Point when tested in accordance with ASTM® D-746. The wall thickness is in conformance with Table 1.

Markings

The outer surface of the jacket shall be clearly marked with the applicable print legend.

Performance Tests

The completed LIQUID-TUFF™ Non-UL EXTREME TEMPERATURE Liquidtight Flexible Steel Conduit shall meet all of the applicable performance requirements.

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Table 1
Jacket Thickness

| Trade Size | Conduit Trade | | Minimum Acceptable Average Thickness of Jacket, (inches) |
|------------|---------------|-------------------|--|
| | Trade Size | Metric Designator | |
| 3/8 | | 12 | 0.030 |
| 1/2 | | 16 | 0.030 |
| 3/4 | | 21 | 0.035 |
| 1 | | 27 | 0.035 |
| 1¼ | | 35 | 0.035 |
| 1½ | | 41 | 0.040 |
| 2 | | 53 | 0.040 |
| 2½ | | 63 | 0.050 |
| 3 | | 78 | 0.050 |
| 3½ | | 91 | 0.060 |
| 4 | | 103 | 0.060 |