

Non-UL Very Flexible (6100 Series)

Scope

This specification covers AFC Cable Systems, Inc. LIQUID-TUFF™ Liquidtight, Flexible Steel Conduit, VF designed for use in specific applications where Underwriters Laboratories Inc. (UL) or other agency approvals are not required, but when flexibility is required. The product is appropriate for use at 60°C (140°F) in a dry location, 60°C in a wet location or 60°C in an oily location. SUNLIGHT RESISTANT in all trade sizes. The product has no agency listing or certification.

Construction

The LIQUID-TUFF™ Liquidtight, Flexible Steel Conduit, VF core shall be formed into an 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 filled with a fibrous material designed to promote flexibility.

Jacket - PVC

A rugged moisture, oil and sunlight resistant polyvinyl chloride (PVC) jacket shall be extruded directly over the interlocked flexible steel core with a wall thickness in conformance with Table 1. Jacket: Gray

Markings

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

Performance Tests

The completed LIQUID-TUFF™ Liquidtight, Flexible Steel Conduit, VF shall meet all of the performance requirements prescribed by applicable manufacturing standards.



Description

- Mechanical and moisture protection for conductors
- Sunlight resistant
- Flame retardant PVC jacket – Gray
- Hot dipped zinc galvanized low carbon steel core
- Very flexible

Temperature Rating

- 60°C (140°F) DRY
- 60°C (140°F) WET
- 60°C (140°F) OIL RESISTANT
- -20°C (-4°F) LOW TEMPERATURE

Applications

- 600 volt and lower circuits
- Vibration and movement absorbing
- Made in USA of US and/or imported materials

TABLE 1.

ORDERING INFORMATION					PRODUCT DIMENSIONS/BEND RADIUS				
Product Code	Trade Size (inches)	Trade Size (mm)	Coil Length (feet)	Reel Length (feet)	Approx. Weight 100 feet (pounds)	Over Jacket (min) (inches)	Over Jacket (max) (inches)	Internal Diameter (min/max) (inches)	Bend Radius (inches)
6101-30-00	3/8	12	100'	—	22	0.690	0.710	0.484/0.504	2
6101-45-00	3/8	12	—	500'	22	0.690	0.710	0.484/0.504	2
6101-60-00	3/8	12	—	1000'	22	0.690	0.710	0.484/0.504	2
6101-65-00	3/8	12	—	2500'	22	0.690	0.710	0.484/0.504	2
6102-30-00	1/2	16	100'	—	26	0.820	0.840	0.622/0.642	3.25
6102-45-00	1/2	16	—	500'	26	0.820	0.840	0.622/0.642	3.25
6102-60-00	1/2	16	—	1000'	26	0.820	0.840	0.622/0.642	3.25
6102-68-00	1/2	16	—	3500'	26	0.820	0.840	0.622/0.642	3.25
6103-30-00	3/4	21	100'	—	33	1.030	1.050	0.820/0.840	4.25
6103-45-00	3/4	21	—	500'	33	1.030	1.050	0.820/0.840	4.25
6103-60-00	3/4	21	—	1000'	33	1.030	1.050	0.820/0.840	4.25
6103-66-00	3/4	21	—	2000'	33	1.030	1.050	0.820/0.840	4.25
6104-30-00	1	27	100'	—	45	1.290	1.315	1.041/1.066	6.5
6104-41-00	1	27	—	400'	45	1.290	1.315	1.041/1.066	6.5
6105-24-00	1-1/4	35	50'	—	60	1.630	1.660	1.380/1.410	8
6105-40-00	1-1/4	35	—	200'	60	1.630	1.660	1.380/1.410	8
6105-47-00	1-1/4	35	—	750'	60	1.630	1.660	1.380/1.410	8
6106-24-00	1-1/2	41	50'	—	90	1.865	1.900	1.575/1.600	9
6106-35-00	1-1/2	41	—	150'	90	1.865	1.900	1.575/1.600	9
6106-62-00	1-1/2	41	—	600'	90	1.865	1.900	1.575/1.600	9
6107-24-00	2	53	50'	—	120	2.340	2.375	2.020/2.045	11.12
6107-30-00	2	53	—	100'	120	2.340	2.375	2.020/2.045	11.12
6107-80-00	2	53	—	300'	120	2.340	2.375	2.020/2.045	11.12
6108-22-00	2-1/2	63	25'	—	121	2.840	2.875	2.480/2.505	14.62
6108-79-00	2-1/2	63	—	275'	121	2.840	2.875	2.480/2.505	14.62
6109-22-00	3	78	25'	—	145	3.460	3.500	3.070/3.100	17.5
6109-56-00	3	78	—	175'	145	3.460	3.500	3.070/3.100	17.5
6120-22-00	3-1/2	91	25'	—	200	3.960	4.000	3.500/3.540	20
6120-56-00	3-1/2	91	—	175'	200	3.960	4.000	3.500/3.540	20
6110-22-00	4	103	25'	—	250	4.460	4.500	4.000/4.040	24
6110-30-00	4	103	—	100'	250	4.460	4.500	4.000/4.040	24

NOTE: All dimensions and weights are subject to normal manufacturing tolerances. **Not for grounding.**