

TECHNICAL DATA SHEET

Type LTFE Food & Beverage, CE Certified Liquid-tight flexible metallic conduit

T&B Liquidtight Systems[®]



T&B Liquidtight Systems® Type LTFE - 3/4 in (25mm)

Features & Benefits:

- FDA compliant PVC jacket material with galvanized steel core
- NSF 169 Certified for special purpose for food equipment
- Designed to meet UL 360 ID/OD dimension requirements
- Full compliance to IEC/EN 61386-1 requirements, CE certified
- Trade sizes from 3/8" to 2" (12mm to 63mm)
- Coordinated performance with Series 5300SST6 stainless steel 316 fittings
- UL, CSA & IP ingress protection ratings aligned with industrial enclosures
- Smooth extruded jackets provide best performance with fittings

Applications:

- · Food and beverage industry installations liquid-tight flexible metallic conduit
- Smooth extruded jacket formulated for "splash zone" food and beverage contact per FDA CFR21 and NSF 51/61 requirements
- PVC smooth jacket material will not promote bacteria growth and provides
 easy washdown
- Used extensively in food processing equipment and corrosive environments where flexibility is necessary for motion, vibration and bending
- Typical applications include food and beverage equipment for grinding, mixing, processing packaging, canning, and bottling machinery
- · Liquid-tight applications against water, oils, mild acids and cleaners
- For use in electrical circuits up to 1,000 V

—

Construction / Material / Finish:

- · Galvanized steel core
- PVC (Polyvinyl Chloride) FDA CFR21 compliant compound
- Ink jet printed ratings and technical information
- Trade sizes from 3/8" to 2" (12mm to 63mm) 3/8 to 2", Square lock design
 Color: White

Environment ratings:

Working Temperature:

- Gen: Dry: -20 to +60°C (-4 to +140°F)
- IEC/CE: Gen: -25 to +90°C (-13 to +194°F)

Chemical resistance guide:

- Resistant to Sodium Hypoclorite (bleach)
- See publication TDS000117

Food & Beverage, CE Certified liquid-tight flexible metallic conduits provide excellent strength and liquid-tight performance for food industry equipment

Certifications / Standards:



Conforms to:

- IEC/EN 61386-1, -23, Conduit Systems for Cable Management
 EU DoC: EC-012-17-171
- NSF Certified (3/8 to 2" sizes only)
 NSE/ANSI 169 Special Purpose for Ecor
- NSF/ANSI 169 Special Purpose for Food Equipment
 CE (Conformité Européenne, European Conformity)
- RoHS (Restriction of Hazardous Substance Directive)
- ROHS (RESULCTION OF HAZARDOUS SUBSTAILE DIRECTIVE,

Standards requirements:

Designed to UL 360 and CSA C22.2, No. 56 standard

requirements including:

 ID and OD dimensions, chemical & acid resistance, flame retardent & self extinguish, abrasion resistance, UV protection, crush resistance, oil resistance, corrosion resistance and bending strength

Meets all IEC/EN 61386-23 standard requirements including:

- Compression strength Code 4 Heavy; 1250 N/50mm
- · Impact strength Code 4 Heavy; 6 Joules
- Tensile strength Code 4 Heavy; 1000 N/2 min.

Ingress protection:

- Provides "Ingress Integrity" between enclosures, fittings, conduits & seals when using LTFE conduits and series 5300SST6 liquidtight fittings
- Covers all trade sizes from 3/8" to 2" (12mm to 63mm)

UL & NEMA system ingress ratings:

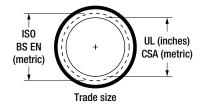
- Products tested and comply with UL 50E and CSA C22.2, No. 94 Type Rating requirements
- UL file no.: E23018
 Indoor: Type 4, 12, 13
 - Outdoor: Type 3, 3R, 4
- NEMA 250: Type 3, 3R, 4, 12, 13

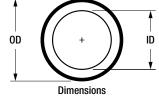
IEC system ingress rating:

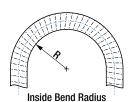
- IP ingress protection per IEC/EN 60529 requirements
- · IEC ingress ratings: IP66, IP67

Type LTFE - Food & Beverage, CE Certified Product selection and dimensions

Product selection													
Trade size Coil Length													
UL Inches	CSA mm	BS EN	Carton			Standard reel			Bulk reel			Weight	
			Part No./GID	Feet	Meter	Part No./GID	Feet	Meter	Part No./GID	Feet	Meter	lbs/ft	kg/m
3/8	12	16	LTFES01W-C 7TAA012LQ0R0000	100	30	-	-	-	-	-	-	0.20	0.30
1/2	16	20	LTFES02W-C 7TAA012LQ0R0001	100	30	-	-	-	-	-	-	0.24	0.36
3/4	21	25	LTFES03W-C 7TAA012LQ0R0002	100	30	-	-	-	-	-	-	0.33	0.49
1	27	32	LTFES04W-C 7TAA012LQ0R0003	100	30	-	-	-	-	-	_	0.53	0.79
11/4	35	40	LTFES05W-B 7TAA012LQ0R0004	50	15	-	-	-	-	-	-	0.68	1.01
11/2	41	50	LTFES06W-B 7TAA012LQ0R0005	50	15	-	-	-	-	-	-	0.88	1.31
2	53	63	LTFES07W-B 7TAA012LQ0R0006	50	15	-	-	-	-	-	-	1.02	1.52







Dimensions Minimum inside bend radius Inches Millimeters Part number **Trade Size** Outside (OD) Outside (OD) UL ISO Static Inside (ID) Inside (ID) CSA Dynamic BS EN Inches mm mm Inches Inches mm Min Max Min Max Min Max Min Max mm LTFES01W-* 102 0.484 0.504 17.5 18.0 3/8 12 16 1.5 38 4.0 0.690 0.710 12.3 12.8 LTFES02W-* 1/2 5.0 20.8 21.3 16 20 2.0 51 127 0.622 0.642 0.820 0.840 15.8 16.3 LTFES03W-* 3/4 25 2.5 64 6.0 0.820 0.840 1.030 1.050 21.3 26.2 26.7 21 152 20.8 LTFES04W-* 27 3.0 76 12.0 305 1.041 1.066 1.290 27.1 32.8 33.4 1 32 1.315 26.4 LTFES05W-* 11/4 35 40 3.5 89 15.0 381 1.380 1.410 1.630 1.660 35.1 35.8 41.4 42.2 LTFES06W-* 11/2 41 50 4.5 114 17.0 432 1.575 1.600 1.865 1.900 40.0 40.6 47.4 48.3 2 5.5 LTFES07W-* 53 63 140 22.0 559 2.020 2.045 2.340 2.375 51.3 51.9 59.4 60.3

Note: Products must be installed in accordance with applicable national and local electrical codes

ABB Installation Products Inc. Memphis, Tennessee tnb.abb.com USA

Let's write the future. Together. **abb.com**

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB Installation Products Inc. (Formerly Thomas & Betts Corp.) does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction - in whole or in part - is forbidden without prior written consent of ABB Installation Products Inc. Copyright© 2019 ABB Installation Products Inc. All rights reserved.