

---

# T&B Liquidtight Systems®

## Food and beverage solutions

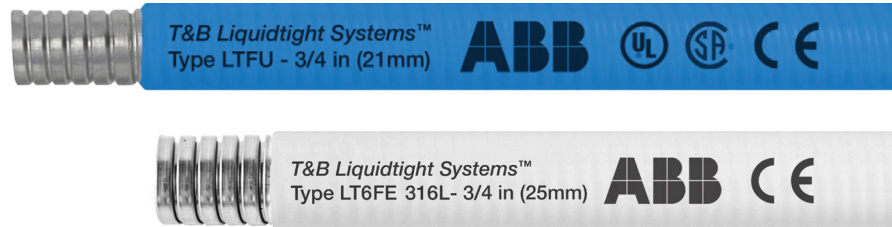


- FDA compliant antimicrobial jacket
- IP69 ingress protection
- NSF certified

# T&B Liquidtight Systems®

## Food and beverage solutions

The T&B Liquidtight Systems brand encompasses a complete range of metallic flexible conduit system solutions for food and beverage applications requiring FDA antimicrobial materials, UL 4/4X and IP69 ingress ratings and NSF approvals.



### Introduction

The T&B Liquidtight Systems portfolio includes one of the widest ranges of liquid-tight flexible cable protection system solutions for the food and beverage industry. Material selection and rigorous testing are the key factors to these highly engineered and superior performance cable protection solutions.

### Typical applications

- Food and beverage equipment
- Pharmaceutical equipment
- Bottling lines
- Packaging equipment
- Meat packing
- Dairy processing
- Coolers and freezer systems
- Canning plants
- Mixers, blenders and fillers
- Brewing and distillery
- High-pressure washdown areas
- Commercial food service

### System components

Food and beverage installations require system solutions considering critical application parameters such as material specifications, temperature ratings, ingress ratings, trade sizes and approvals.

### Materials




T&B Liquidtight Systems food and beverage solutions are primarily designed with ANSI 316 stainless steel and FDA-compliant compounds. Materials are selected with cleanability, antimicrobial active ingredients, high-pressure washdown and maintenance-free long-term durability as priorities.

### Food and beverage protection system components


- Flexible metallic conduits
- Stainless steel liquid-tight fittings
- Seal gaskets
- Locknuts
- Supports

## Food and Beverage solutions

### Metallic solutions

Ingress protection	UL Type 4/4X, IP69		NEMA 4/4X, IP69
Liquid-tight flexible conduits (LFMC)			
Product offering	LT6FE SS 316 antimicrobial	LTFU steel	LTFU steel antimicrobial
	 T&B Liquidtight Systems™ Type LT6FE 316L - 3/4 in (25mm) <b>ABB</b> <b>CE</b> <b>CE</b> <b>NSF</b>	 T&B Liquidtight Systems™ Type LTFU - 3/4 in (21mm) <b>ABB</b> <b>UL</b> <b>SP</b> <b>CE</b> <b>UL</b> <b>SP</b> <b>CE</b> <b>NSF</b>	 T&B Liquidtight Systems™ Type LTFU - 3/4 in (21mm) <b>ABB</b> <b>UL</b> <b>SP</b> <b>CE</b> <b>UL</b> <b>SP</b> <b>CE</b> <b>NSF</b>
	Food and bev, SST 316L		Food and bev, steel galv
Approvals and certifications			
UL 360	No	Yes	Yes
CSA C22.2, No 56	No	Yes	Yes
CSA C22.2, No. 56 - “Heavy Duty”	No	Yes	Yes
CE certification	Yes	Yes	Yes
RoHS	Yes	Yes	Yes
NSF approval	Yes	Yes	Yes
Trade sizes			
UL (inches)	3⁄8 to 4	3⁄8 to 4	3⁄8 to 4
CSA (mm)	12 to 103	12 to 103	12 to 103
Materials			
Core	Stainless steel 316L	Steel galvanized	Steel galvanized
Jacket material	PVC, FDA compliant	PVC, FDA compliant	PVC, FDA compliant
Antimicrobial	Yes	No	Yes
Jacket color (standard)	White	White	Blue
UL bond wire (1/2 to 1 1/4 in.)	---	Yes	Yes
Temperature — dry (see technical data sheets for complete ratings)			
CSA	---	-30 to +60 °C (-22 to +140 °F)	-30 to +105 °C (-22 to +221 °F)
UL	---	-30 to +80 °C (-22 to +176 °F)	-30 to +105 °C (-22 to +221 °F)
CE	-45 to +105 °C (-49 to +221 °F)	-25 to +90 °C (-13 to +194 °F)	-25 to +90 °C (-13 to +194 °F)
General	-55 to +105 °C (-67 to +221 °F)	---	---
Technical data sheet	TDS000086	TDS000021	TDS000569

### Liquid-tight metallic fittings

Product offering	SS 316 LT fittings	
		
	53xxSST6	
	SST316 (standard and high temp)	
	Approvals and certifications	
UL 514B listing	Yes	
CSA C22.2, No 56	Yes	
CE certification	Yes	
RoHS	Yes	
NSF 169	Yes	
Materials		
Metal components		Stainless steel 316
Seals, insulators and gaskets		Nylon
Thread types		NPT and metric
Ground cone options		Steel galvanized (Opt. -6, SS 316)
Working temperature (static)*		
UL 514B		-20 to +105
CSA 22.2 No 18		-20 to +105
Ingress protection		
UL liste/CSA certified		Type 3, 3R, 4, 4X, 6, 12, 13
NEMA 250		Type 3, 3R, 4, 4X, 6, 12, 13
ICE/EN 60529		IP66, 67, 68, 69
Technical data sheet		TDS000126

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

\*Please refer to TDS000124 for temperature range of high temperature fittings.

## Food & Beverage Antimicrobial - Liquidtight flexible metal conduit

Type LTFU - CSA certified, UL Listed



### Type LTFU - Antimicrobial

Food & Beverage, CSA certified UL Listed liquid-tight flexible metal conduit provides excellent antimicrobial and liquid-tight performance for food industry equipment

**Materials:** Galvanized Steel Core, Smooth PVC Jacket, Antimicrobial, FDA compliant compound with copper bonding wire from 3/8 to 1-1/4"

**Colour:** Blue (Standard)

### Approvals



UL 360  
File No. E125517



IEC EN 61386-1, -23  
DoC: EC-012-16-104



CSA C22.2, No. 56  
File No. 72635



Conduit sizes 1/2" up to 2" meets CSA Heavy duty requirements, when used with series 5200/5300 liquidtight fittings.

Trade Size			Coil Length										Specifications			
UL	CSA	ISO/ BS EN	Standard Carton			Small Carton			Bulk Reel			UL Bond Wire	ID Range (Nominal)		Min. Inside Bend Radius	
Inch	mm	mm	Part No.	Ft	M	Part No.	Ft	M	Part No.	Ft	M		Inch	mm	Inch	mm
3/8	12	16	LTFUS01L-C	100	30	LTFUS01L-A	25	8	---	---	---	Yes	0.484 to 0.505 (0.493)	12.3 to 12.8 (12.5)	2.0	51
1/2	16	20	LTFUS02L-C	100	30	LTFUS02L-A	25	8	---	---	---	Yes	0.622 to 0.642 (0.632)	15.8 to 16.3 (16.0)	3.0	76
3/4	21	25	LTFUS03L-C	100	30	LTFUS03L-A	25	8	---	---	---	Yes	0.820 to 0.840 (0.830)	20.8 to 21.3 (21.1)	4.2	107
1	27	32	LTFUS04L-C	100	30	LTFUS04L-A	25	8	---	---	---	Yes	1.041 to 1.066 (1.053)	25.4 to 27.1 (26.8)	5.5	140
1 1/4	35	40	LTFUS05L-B	50	15	LTFUS05L-A	25	8	---	---	---	Yes	1.380 to 1.410 (1.395)	35.1 to 35.8 (35.5)	7.0	178
1 1/2	41	50	LTFUS06L-B	50	15	LTFUS06L-A	25	8	---	---	---	No	1.575 to 1.600 (1.587)	40.0 to 40.6 (40.3)	4.5	114
2	53	63	LTFUS07L-B	50	15	LTFUS07L-A	25	8	---	---	---	No	2.020 to 2.045 (2.032)	51.3 to 51.9 (51.6)	6.0	152
2 1/2	63	70	LTFUS08L-A	25	8	---	---	---	---	---	---	No	2.480 to 2.505 (2.492)	63.0 to 63.6 (63.3)	8.0	203
3	78	80	LTFUS09L-A	25	8	---	---	---	---	---	---	No	3.070 to 3.100 (3.085)	78.0 to 78.7 (78.4)	10.0	254
4	103	100	LTFUS11L-A	25	8	---	---	---	---	---	---	No	4.000 to 4.040 (4.020)	101.6 to 102.6 (102.1)	12.0	305

### System Ingress Ratings

#### UL 50E "Listed"

Indoor	Type 4, 4X, 6, 12, 13
Outdoor	Type 3, 3R, 4, 4X, 6
NEMA 250	Type 3, 3R, 4, 4X, 6, 12, 13
CSA C22.2, No. 94	Type 3, 3R, 4, 4X, 12, 13
IEC 60529	IP66, IP67, IP68, IP69

CSA certified for Direct Burial Application.

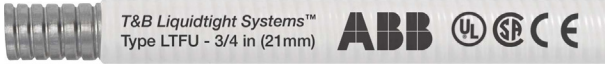
### System Temperature Ratings

UL	Dry: -30 to +105°C (-22 to +221°F)
	Oil: -30 to +70°C (-22 to +158°F)
	Wet: -30 to +60°C (-22 to +140°F)
CSA	Dry: -30 to +105°C (-22 to +221°F)
	Oil: -30 to +75°C (-22 to +167°F)
	Wet: -30 to +75°C (-22 to +167°F)
IEC/CE	Gen: -25 to +90°C (-13 to +194°F)

For more information see  
Technical Data Sheet TDS000569.  
For download on our website.

## Food & Beverage - Liquidtight flexible metal conduit

Type LTFU - CSA certified, UL Listed



### Type LTFU - General Purpose

Food & Beverage, UL Listed, NSF Certified T&B Liquidtight Flexible Metallic Conduit provide excellent strength and Liquidtight performance for food industry equipment

**Materials:** Galvanized Steel Core, Smooth PVC Jacket, FDA compliant compound with copper bonding wire from 3/8 to 1-1/4"

**Colour:** White (Standard)

### Approvals



UL360  
File No. E125517



IEC EN 61386-1, -23  
DoC: EC-012-16-104



CSA C22.2, No. 56  
File No. 72635



Conduit sizes 1/2" up to 2" meets CSA Heavy duty requirements, when used with series 5200/5300 liquidtight fittings.

Trade Size			Coil Length										Specifications			
UL	CSA	ISO/ BS EN	Standard Carton			Small Reel			Bulk Reel			UL Bond Wire	ID Range (Nominal)		Min. Inside Bend Radius	
Inch	mm	mm	Part No.	Ft	M	Part No.	Ft	M	Part No.	Ft	M		Inch	mm	Inch	mm
3/8	12	16	LTFUS01W-C	100	30	---	---	---	---	---	---	Yes	0.484 to 0.505 (0.493)	12.3 to 12.8 (12.5)	2.0	51
1/2	16	20	LTFUS02W-C	100	30	---	---	---	---	---	---	Yes	0.622 to 0.642 (0.632)	15.8 to 16.3 (16.0)	3.0	76
3/4	21	25	LTFUS03W-C	100	30	---	---	---	---	---	---	Yes	0.820 to 0.840 (0.830)	20.8 to 21.3 (21.1)	4.2	107
1	27	32	LTFUS04W-C	100	30	---	---	---	---	---	---	Yes	1.041 to 1.066 (1.053)	25.4 to 27.1 (26.8)	5.5	140
1 1/4	35	40	LTFUS05W-B	50	15	---	---	---	---	---	---	Yes	1.380 to 1.410 (1.395)	35.1 to 35.8 (35.5)	7.0	178
1 1/2	41	50	LTFUS06W-B	50	15	---	---	---	---	---	---	No	1.575 to 1.600 (1.587)	40.0 to 40.6 (40.3)	4.5	114
2	53	63	LTFUS07W-B	50	15	---	---	---	---	---	---	No	2.020 to 2.045 (2.032)	51.3 to 51.9 (51.6)	6.0	152
2 1/2	63	70	LTFUS08W-A	25	8	---	---	---	---	---	---	No	2.480 to 2.505 (2.492)	63.0 to 63.6 (63.3)	8.0	203
3	78	80	LTFUS09W-A	25	8	---	---	---	---	---	---	No	3.070 to 3.100 (3.085)	78.0 to 78.7 (78.4)	10.0	254
4	103	100	LTFUS11W-A	25	8	---	---	---	---	---	---	No	4.000 to 4.040 (4.020)	101.6 to 102.6 (102.1)	12.0	305

### System Ingress Ratings

#### UL 50E "Listed"

Indoor	Type 4, 12, 13
Outdoor	Type 3, 3R, 4
NEMA 250	Type 3, 3R, 4, 12, 14
IEC 60529	IP66, IP67, IP68, IP69

CSA certified for Direct Burial Application.

### System Temperature Ratings

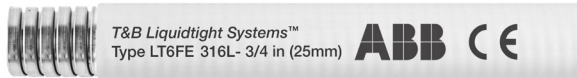
UL	Dry: -30 to +80°C (-22 to +176°F)
	Oil: -30 to +70°C (-22 to +158°F)
	Wet: -30 to +60°C (-22 to +140°F)
CSA	Dry: -30 to +60°C (-22 to +140°F)
	Oil: -30 to +60°C (-22 to +140°F)
	Wet: -30 to +60°C (-22 to +140°F)
IEC/CE	Gen: -25 to +90°C (-13 to +194°F)

For more information see  
Technical Data Sheet TDS000021.  
For download on our website.



## Food & Beverage Antimicrobial - Liquidtight flexible metal conduit

Type LT6FE - CE certified



### Type LT6FE SST 316L - Antimicrobial

Stainless Steel 316L Food & Beverage, CE and NSF Certified T&B Liquidtight Flexible Metallic Conduit provide superior strength, corrosion protection and Liquidtight performance

**Materials:** Stainless Steel 316L Core, Smooth PVC Jacket, FDA compliant compound

**Colour:** White (Standard)

### Approvals



Trade Size			Coil Length										Specifications			
UL	CSA	ISO/ BS EN	Standard Carton			Small Reel			Small Carton			UL Bond Wire	ID Range (Nominal)		Min. Inside Bend Radius	
Inch	mm	mm	Part No.	Ft	M	Part No.	Ft	M	Part No.	Ft	M		Inch	mm	Inch	mm
½	16	20	LT6FES02W-C	100	30	LT6FES02W-K	500	150	LT6FES02W-A	25	8	No	0.622 to 0.642 (0.632)	15.8 to 16.3 (16.0)	2.0	51
¾	21	25	LT6FES03W-C	100	30	LT6FES03W-K	500	150	LT6FES03W-A	25	8	No	0.820 to 0.840 (0.830)	20.8 to 21.3 (21.1)	2.5	64
1	27	32	LT6FES04W-C	100	30	LT6FES04W-J	400	120	LT6FES04W-A	25	8	No	1.041 to 1.066 (1.053)	25.4 to 27.1 (26.8)	3.0	76
1¼	35	40	LT6FES05W-B	50	15	LT6FES05W-E	200	60	---	---	---	No	1.380 to 1.410 (1.395)	35.1 to 35.8 (35.5)	3.5	89
1½	41	50	LT6FES06W-B	50	15	LT6FES06W-D	150	45	---	---	---	No	1.575 to 1.600 (1.587)	40.0 to 40.6 (40.3)	4.5	114
2	53	63	LT6FES07W-B	50	15	LT6FES07W-C	100	30	---	---	---	No	2.020 to 2.045 (2.032)	51.3 to 51.9 (51.6)	5.5	140
2½	63	70	LT6FES08W-A	25	8	---	---	---	---	---	---	No	2.480 to 2.505 (2.492)	63.0 to 63.6 (63.3)	8.0	203
3	78	80	LT6FES09W-A	25	8	---	---	---	---	---	---	No	3.070 to 3.100 (3.085)	78.0 to 78.7 (78.4)	10.0	254
4	103	100	LT6FES11W-A	25	8	---	---	---	---	---	---	No	4.000 to 4.040 (4.020)	101.6 to 102.6 (102.1)	12.0	305

### System Ingress Ratings

UL 50E "Tested"	
Indoor	NEMA 4, 4X, 12, 13
Outdoor	NEMA 3, 3R, 4, 4X
CSA C22.2, No. 94	Type 3, 3R, 4, 12, 13
NEMA 250	NEMA 3, 3R, 4, 4X, 12, 13
IEC 60529	IP66, IP67, IP68, IP69

### System Temperature Ratings

IEC/CE:	Dry: -55 to +105°C (-67 to +221°F)
	Gen: -45 to +105°C (+49 to +221°F)

For more information see  
Technical Data Sheet TDS000086.  
For download on our website.

## Food & Beverage - Fittings and accessories

### Series 5300SST6/ Series 5300SST6HT High Temperature



Series 5300SST6



Series 5300SST6HT - High Temperature

#### Approvals



UL 514 B  
File No. E23018



IEC EN 61386-1,-23

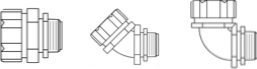
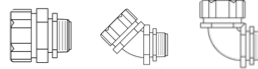






CSA C22.2, No.18.3  
File No. LR-2884  
LR-4484



#### Fittings

#### Accessories

Series 5300SST6 SST 316										Series 5300SST6HT SST 316 High Temperature								
																		
Trade Size			Type		*Insulated			Insulated			*Sealing Gasket Part No.	Wire Mesh Grips Part No.	Conduit Support Part No.	**Lock Nuts SST Part No.				
UL Inch	CSA mm	ISO/ BS EN mm	Std.	Thread	Straight Part No.	45° Part No.	90° Part No.	Straight Part No.	45° Part No.	90° Part No.								
3/8	12	16	NPT	1/2"	5331SST6	5341SST6	5351SST6	5331SST6HT	5341SST6HT	5351SST6HT	5261	WMG-LT1	P CLIP/16	LNSS038				
			ISO	M16	9330SST6	9340SST6	9350SST6	9330SST6HT	9340SST6HT	9350SST6HT			---	LNSSM16				
			PG	13.5	---	---	---	---	---	---			---					
1/2	16	20	NPT	1/2"	5332SST6	5342SST6	5352SST6	5332SST6HT	5342SST6HT	5352SST6HT	5262	WMG-LT2	P CLIP/20	LNSS050				
			ISO	M20	9332SST6	9342SST6	9352SST6	9332SST6HT	9342SST6HT	9352SST6HT			HS901SS	LNSSM20				
			PG	16	---	---	---	---	---	---			---					
3/4	21	25	NPT	3/4"	5333SST6	5343SST6	5353SST6	5333SST6HT	5343SST6HT	5353SST6HT	5263	WMG-LT3	P CLIP/25	LNSS075				
			ISO	M25	9333SST6	9343SST6	9353SST6	9333SST6HT	9343SST6HT	9353SST6HT			HS902SS	LNSSM25				
			PG	21	---	---	---	---	---	---			---					
1	27	32	NPT	1"	5334SST6	5344SST6	5354SST6	5334SST6HT	5344SST6HT	5354SST6HT	5264	WMG-LT4	P CLIP/32	LNSS100				
			ISO	M32	9334SST6	9344SST6	9354SST6	9334SST6HT	9344SST6HT	9354SST6HT			HS903SS	LNSSM32				
			PG	29	---	---	---	---	---	---			---					
1 1/4	35	40	NPT	1 1/4"	5335SST6	5345SST6	5355SST6	5335SST6HT	5345SST6HT	5355SST6HT	5265	WMG-LT5	P CLIP/40	LNSS125				
			ISO	M40	9335SST6	9345SST6	9355SST6	9335SST6HT	9345SST6HT	9355SST6HT			HS904SS	LNSSM40				
			PG	36	---	---	---	---	---	---			---					
1 1/2	41	50	NPT	1 1/2"	5336SST6	5346SST6	5356SST6	5336SST6HT	5346SST6HT	5356SST6HT	5266	WMG-LT6	P CLIP/50	LNSS150				
			ISO	M50	9336SST6	9346SST6	9356SST6	9336SST6HT	9346SST6HT	9356SST6HT			HS905SS	LNSSM50				
			PG	42	---	---	---	---	---	---			---					
2	53	63	NPT	2"	5337SST6	5347SST6	5357SST6	5337SST6HT	5347SST6HT	5357SST6HT	5267	WMG-LT7	P CLIP/63	LNSS200				
			ISO	M63	9337SST6	9347SST6	9357SST6	9337SST6HT	9347SST6HT	9357SST6HT			HS906SS	LNSSM63				
			PG	48	---	---	---	---	---	---			---					
2 1/2	63	70	NPT	2 1/2"	5338-NB	---	---	---	---	---	5268	WMG-LT8	P CLIP/75	---				
			ISO	---	---	---	---	---	---	---			HS907SS					
			PG	---	---	---	---	---	---	---								
3	78	80	NPT	3"	5339-NB	---	---	---	---	---	5269	WMG-LT9	---	---				
			ISO	---	---	---	---	---	---	---			HS908SS					
			PG	---	---	---	---	---	---	---								
4	103	100	NPT	4"	5340-NB	---	---	---	---	---	5270	WMG-LT10	---	---				
			ISO	---	---	---	---	---	---	---			HS910SS					
			PG	---	---	---	---	---	---	---								



Click or scan the  
QR code to see the  
complete offering

---

**ABB Electrification Canada ULC**  
**Installation Products**  
700 Thomas Avenue  
Saint-Jean-sur-Richelieu, Quebec J2X 2M9  
Tel.: +1 (450) 347 5318  
Toll Free: +1 (800) 362 2952  
Fax: +1 (450) 347 1976

---

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 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.  
Copyright© 2022 ABB. All rights reserved.