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 TECHNICAL DATA SHEET

# Type LTBU Computer Blue, UL Listed

## Liquid-tight flexible metallic conduit

### T&B Liquidtight Systems®




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**Features & Benefits:**

- Global certification to UL, CSA and IEC requirements
- Trade sizes from 3/8" to 4" (12mm to 103mm)
- Coordinated performance with series 52/53 liquidtight fittings
- UL, CSA & IP ingress protection ratings aligned with industrial enclosures
- Smooth extruded jackets provide best performance with fittings
- Conduit sizes 1/2" and up meets CSA Heavy Duty requirements, when used with series 5200/5300 liquid-tight fittings

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**Applications:**

- Computer rooms, data centers, infrastructure, communication lines, etc.
- Optional colors for application specific solutions such as safety, fire protection, power and control circuits, etc.
- Liquid tight applications against water, oils, cutting fluids, mild acids
- For use in electrical circuits up to 1,000 V
- Listed and marked for direct burial in earth or in poured concrete
- CSA Certified conduit is intended for use to Canadian Electrical Code as described in Section 12 for dry, damp or wet locations, and in Section 18 (J18), where flexibility is required.

**NEC Article 250 equipment grounding:**

- 3/8" and 1/2" — grounding in circuits up to 20A
- 3/4" to 1 1/4" — grounding in circuits up to 60A
- 1 1/2" to 4" — separate ground wire is required

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**Construction / Material / Finish:**

- Hot-dipped zinc galvanized steel core
- PVC (polyvinyl chloride) extruded smooth jacket
- Inkjet printed technical information and ratings
- Full range of trade sizes from 3/8" to 4" (12mm to 103mm)
- 3/8" to 1 1/4", integral copper bonding wire, square lock design
- 1 1/2" to 4" fully interlocked design
- Colors: blue (standard)
- Optional colors: red, yellow, green, orange and many others

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**Environment ratings:**
**Working Temperature:**

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

LTBU Computer Blue liquid-tight flexible metal conduit is typically used in computer rooms, data centers and infrastructure applications where crush and impact resistant performance is required to protect vital power conductors and communication lines.

**Certifications / Standards:**

**Chemical resistance guide:**

See publication TDS000117

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**Conforms to:**

- UL 360, Liquid-tight Flexible Metal Conduits (LFMC)
  - UL file: E125517
- CSA C22.2 No. 56, Liquid-tight Flexible Metal Conduits (LFMC)
  - CSA file: LR-72635
- IEC 61386-1, -23, Conduit systems for cable management
  - EU DoC: EC-012-16-101
- CE (Conformité Européene, European Conformity)
- RoHS (Restriction of Hazardous Substances Directive)

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**Standards requirements:**

**Meets all UL 360 and CSA C22.2 No. 56 standard requirements including:**

- ID and OD dimensions, chemical and acid resistance, flame retardant and self extinguishing, abrasion resistance, UV protection, crush resistance, oil resistance, bending resistance, corrosion resistance and bending strength
- CSA Heavy duty requirements

**Meets all IEC 61386-1, -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 and seals when using LTBU conduits and series 52/53 liquid-tight fittings and seals.
- Covers all trade sizes from 3/8" to 4" (12mm to 103mm)

**UL CSA & NEMA system ingress rating:**

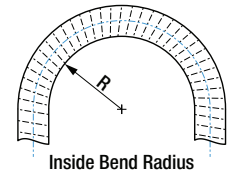
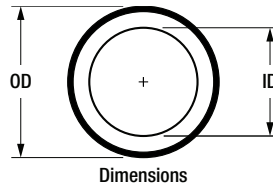
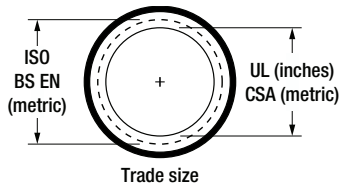
- UL Listed type ratings tested to UL 50E requirements
- UL file: E23018
  - Indoor: Type 4, 12, 13
  - Outdoor: Type 3, 3R, 4
- CSA C22.2, No. 94.2: Type 3, 3R, 4, 12, 13
- NEMA 250: Type 3, 3R, 4, 12, 13

**IEC system ingress rating:**

- IP ingress protection per IEC 60529 requirements
- IEC ingress rating: IP66, IP67

**Type LTBU - Computer Blue, UL Listed**  
**Product selection and dimensions**

Product selection														
Trade size										Coil Length				
UL	CSA	ISO BS EN	Carton			Standard reel			Bulk reel			Weight		
Inches	mm	mm	Part No./GID	Feet	Meter	Part No./GID	Feet	Meter	Part No./GID	Feet	Meter	lbs/ft	kg/m	
3/8	12	16	LTBUS01L-C	100	30	LTBUS01L-K	500	150	LTBUS01L-L	1,000	300	0.29	0.43	
			7TAA012LFOR0000			7TAA012LFOR0010			7TAA012LFOR0020					
1/2	16	20	LTBUS02L-C	100	30	LTBUS02L-K	500	150	LTBUS02L-L	1,000	300	0.32	0.48	
			7TAA012LFOR0001			7TAA012LFOR0011			7TAA012LFOR0021					
3/4	21	25	LTBUS03L-C	100	30	LTBUS03L-K	500	150	LTBUS03L-L	1,000	300	0.53	0.79	
			7TAA012LFOR0002			7TAA012LFOR0012			7TAA012LFOR0022					
1	27	32	LTBUS04L-C	100	30	LTBUS04L-J	400	120	-	-	-	0.82	1.22	
			7TAA012LFOR0003			7TAA012LFOR0013								
1 1/4	35	40	LTBUS05L-B	50	15	LTBUS05L-E	200	60	-	-	-	1.02	1.52	
			7TAA012LFOR0004			7TAA012LFOR0014								
1 1/2	41	50	LTBUS06L-B	50	15	LTBUS06L-D	150	45	-	-	-	1.24	1.84	
			7TAA012LFOR0005			7TAA012LFOR0015								
2	53	70	LTBUS07L-B	50	15	LTBUS07L-C	100	30	-	-	-	1.45	2.16	
			7TAA012LFOR0006			7TAA012LFOR0016								
2 1/2	63	70	LTBUS08L-A	25	8	LTBUS08L-G	275	80	-	-	-	1.92	2.86	
			7TAA012LFOR0007			7TAA012LFOR0017								
3	78	80	LTBUS09L-A	25	8	LTBUS09L-P	175	50	-	-	-	2.52	3.75	
			7TAA012LFOR0008			7TAA012LFOR0018								
4	103	100	LTBUS11L-A	25	8	LTBUS11L-C	100	30	-	-	-	3.50	5.21	
			7TAA012LFOR0009			7TAA012LFOR0019								



Part number	Trade Size			Minimum inside bend radius				Inches				Millimeters			
	UL	CSA	ISO BS EN	Static		Dynamic		Inside (ID)		Outside (OD)		Inside (ID)		Outside (OD)	
	Inches	mm	mm	Inches	mm	Inches	mm	Min	Max	Min	Max	Min	Max	Min	Max
LTBUS01L-*	3/8	12	16	2.0	51	4.0	102	0.484	0.504	0.690	0.710	12.3	12.8	17.5	18.0
LTBUS02L-*	1/2	16	20	3.0	76	5.0	127	0.622	0.642	0.820	0.840	15.8	16.3	20.8	21.3
LTBUS03L-*	3/4	21	25	4.2	107	6.0	152	0.820	0.840	1.030	1.050	20.8	21.3	26.2	26.7
LTBUS04L-*	1	27	32	5.5	140	12.0	305	1.041	1.066	1.290	1.315	26.4	27.1	32.8	33.4
LTBUS05L-*	1 1/4	35	40	7.0	178	15.0	381	1.380	1.410	1.630	1.660	35.1	35.8	41.4	42.2
LTBUS06L-*	1 1/2	41	50	4.5	114	17.0	432	1.575	1.600	1.865	1.900	40.0	40.6	47.4	48.3
LTBUS07L-*	2	53	63	6.0	152	22.0	559	2.020	2.045	2.340	2.375	51.3	51.9	59.4	60.3
LTBUS08L-*	2 1/2	63	70	8.0	203	30.0	762	2.480	2.505	2.840	2.875	63.0	63.6	72.1	73.0
LTBUS09L-*	3	78	80	10.0	254	36.0	914	3.070	3.100	3.460	3.500	78.0	78.7	87.9	88.8
LTBUS11L-*	4	103	100	12.0	305	52.0	1,321	4.000	4.040	4.460	4.500	101.6	102.6	113.3	114.3

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

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