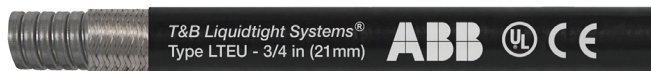


TECHNICAL DATA SHEET - INTERACTIVE PDF

# Type LTEU - Standard Performance, UL Listed Liquid-tight flexible metallic conduit- EMI/RFI

## T&B Liquidtight Systems®



Standard Performance, UL Listed Liquid-tight Flexible Metallic Conduits that provide superior EMI/RFI shielded protection.

### Certifications / Standards:



### 3-Part Specification:

#### End User Tools

### Features & Benefits:

- High quality core and jacket for excellent strength and durability
- Trade sizes from 3/8" to 2" (12mm to 53mm)
- UL and IP ingress protection ratings aligned with industrial enclosures
- Smooth extruded jackets provides excellent performance with fittings
- Copper bonding wire provided from 3/8" to 1 1/4" (12mm to 35mm)
- Tinned copper shielding braid offers at least 90% coverage resulting in a shielding effectiveness range from 120 dB @ 1MHz to 61 dB @ 1 GHz.
- Coordinated performance with Series 5200/5300 Steel Liquid-Tight Fittings

### Applications:

- Designed for cable protection systems that require effective shielding from electromagnetic and radio frequency interference (EMI/RFI)
- Liquid-tight applications against water, oils cutting fluids and mild acids
- Machine OEM and panel builders
- Can be used in healthcare, aviation, telecommunications, cell towers and data centers

### Construction / Material / Finish:

- Galvanized Steel core
- Smooth PVC jacket
- Copper braid shielding core
- Color: Black

### Environment ratings:

#### Working Temperature:

- Gen: 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)
- IEC/CE: Gen: -25 to 90°C (-13 to 194°F)

### Chemical resistance guide:

- See publication TDS000117

### Conforms to:

- UL 360, Liquid-tight Flexible Metal Conduits (LFMC)
  - UL File: E125517
- IEC 61386-1, -23, Conduit Systems for Cable Management
  - EU DoC: EC-012-16-103
- CE (Conformité Européenne, European Conformity)
- RoHS (Restriction of Hazardous Substances Directive)

### Ingress protection:

- Helps provide "Ingress Integrity" between enclosures, fittings, conduits & seal gaskets when using Series 5200/5300 Liquid-tight Fittings and T&B Liquidtight Systems LFMC.
- Covers all trade sizes from 3/8" to 2" (12mm to 53mm)
- Ingress ratings require use of Ser. 5260 Seal Gaskets

### UL, CSA & NEMA system ingress ratings:

- UL Listed type ratings tested to UL 50E requirements with UL Listed LFMC
- 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:

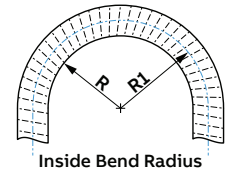
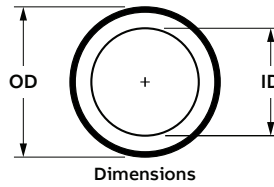
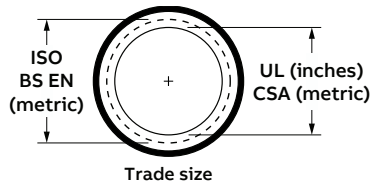
- IP ingress protection per IEC 60529 requirements
- IEC ingress rating: IP66, IP67

## Type LTEU- Standard Performance UL Listed

### Product selection and dimensions

#### Product selection

| Trade size |     |              |            |      |       |               |      |       |            | Package length |       |        |      |  |
|------------|-----|--------------|------------|------|-------|---------------|------|-------|------------|----------------|-------|--------|------|--|
| UL         | CSA | ISO<br>BS EN | Carton     |      |       | Standard reel |      |       | Bulk reel  |                |       | Weight |      |  |
| Inches     | mm  | mm           | Part No.   | Feet | Meter | Part No.      | Feet | Meter | Part No.   | Feet           | Meter | lbs/ft | kg/m |  |
| 3/8        | 12  | 16           | LTEUS01B-C | 100  | 30    | LTEUS01B-K    | 500  | 150   | LTEUS01B-L | 1,000          | 300   | 0.33   | 0.49 |  |
| 1/2        | 16  | 20           | LTEUS02B-C | 100  | 30    | LTEUS02B-K    | 500  | 150   | LTEUS02B-L | 1,000          | 300   | 0.36   | 0.54 |  |
| 3/4        | 21  | 25           | LTEUS03B-C | 100  | 30    | LTEUS03B-K    | 500  | 150   | -          | -              | -     | 0.57   | 0.85 |  |
| 1          | 27  | 32           | LTEUS04B-C | 100  | 30    | LTEUS04B-J    | 400  | 120   | -          | -              | -     | 0.86   | 1.28 |  |
| 1 1/4      | 35  | 40           | LTEUS05B-B | 50   | 15    | LTEUS05B-E    | 200  | 60    | -          | -              | -     | 1.02   | 1.52 |  |
| 1 1/2      | 41  | 50           | LTEUS06B-B | 50   | 15    | LTEUS06B-D    | 150  | 45    | -          | -              | -     | 1.24   | 1.84 |  |
| 2          | 53  | 63           | LTEUS07B-B | 50   | 15    | LTEUS07B-C    | 100  | 30    | -          | -              | -     | 1.60   | 2.38 |  |



#### Dimensions (approximate)

| Part number | Trade Size |     |              | Minimum inside bend Radius (R1) |       | Minimum inside bend radius (R) |     | Inches      |       |              |       | Millimeters |      |              |      |
|-------------|------------|-----|--------------|---------------------------------|-------|--------------------------------|-----|-------------|-------|--------------|-------|-------------|------|--------------|------|
|             | UL         | CSA | ISO<br>BS EN | NEC Ch. 9 Table 2               |       |                                |     | Inside (ID) |       | Outside (OD) |       | Inside (ID) |      | Outside (OD) |      |
|             | Inches     | mm  | mm           | Inches                          | mm    | Inches                         | mm  | Min         | Max   | Min          | Max   | Min         | Max  | Min          | Max  |
| LTEUS01B-*  | 3/8        | 12  | 16           | -                               | -     | 2.0                            | 51  | 0.484       | 0.504 | 0.690        | 0.710 | 12.3        | 12.8 | 17.5         | 18.0 |
| LTEUS02B-*  | 1/2        | 16  | 20           | 4.0                             | 101.6 | 3.0                            | 76  | 0.622       | 0.642 | 0.820        | 0.840 | 15.8        | 16.3 | 20.8         | 21.3 |
| LTEUS03B-*  | 3/4        | 21  | 25           | 5.0                             | 127.0 | 4.2                            | 107 | 0.820       | 0.840 | 1.030        | 1.050 | 20.8        | 21.3 | 26.2         | 26.7 |
| LTEUS04B-*  | 1          | 27  | 32           | 6.0                             | 152.4 | 5.5                            | 140 | 1.041       | 1.066 | 1.290        | 1.315 | 26.4        | 27.1 | 32.8         | 33.4 |
| LTEUS05B-*  | 1 1/4      | 35  | 40           | 8.0                             | 203.2 | 7.0                            | 178 | 1.380       | 1.410 | 1.630        | 1.660 | 35.1        | 35.8 | 41.4         | 42.2 |
| LTEUS06B-*  | 1 1/2      | 41  | 50           | 10.0                            | 254.0 | 4.5                            | 114 | 1.575       | 1.600 | 1.865        | 1.900 | 40.0        | 40.6 | 47.4         | 48.3 |
| LTEUS07B-*  | 2          | 53  | 63           | 12.0                            | 304.8 | 6.0                            | 152 | 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