

## Conduit Bodies and Covers

### T&B® Conduit Fittings for Ordinary and Hazardous Locations

Thomas & Betts offers a broad range of conduit bodies, conduit boxes, conduit fittings, unions, sealing fittings, drains and cable fittings for both ordinary and hazardous locations. Complete information on applications, features, materials, finishes, size range and certifications is provided in the following pages.

#### Conduit Bodies (for ordinary locations)

For raceway systems to provide pull outlets, 90° bends, splices, taps, mounting outlets, etc.

|                            |                                                                                 |
|----------------------------|---------------------------------------------------------------------------------|
| FORM 7                     | For neat, compact installation of rigid threaded conduit.                       |
| FORM 8                     | For heavier conductors using rigid threaded conduit.                            |
| Series 35                  | For economy installations of rigid threaded conduit.                            |
| Stainless Steel            | For superior corrosion protection.                                              |
| Red•Dot® Aluminum Die-Cast | For rigid threaded conduit installation — copper-free aluminum.                 |
| Red•Dot® Thinwall (EMT)    | For set-screw installation using thinwall conduit (EMT) — copper-free aluminum. |
| Mogul Conduit Fittings     | For larger conduits, spacious, accessible wiring chambers.                      |

#### Cast Device Boxes (for ordinary locations)

For raceway systems to accommodate wiring devices, serve as pull boxes and provide entrances for taps and splices.

*FS/FD Single- and Double-Gang Cast Device Boxes*

#### Cast Conduit Outlet Boxes (for hazardous locations)

Round cast outlet boxes used with rigid conduit to serve as pull and splice boxes, easy access to wiring, act as a housing for instruments, apparatus, etc.

*GUA Conduit Outlet Bodies*

#### Reducers, Plugs, Unions (for ordinary and hazardous locations)

Includes reducers for connecting conduit of dissimilar dimensions, plugs for unused conduit openings and hubs and unions for threaded conduit systems.

*RE, PLG REC Reducers, Plugs and Adapters, UNY/UNF Unions*

#### Sealing Fittings and Drains (for ordinary and hazardous locations)

Cast fittings used with rigid conduit to seal sections from passage of vapors, flame or gases or explosions. Drains provide ventilation as a breather and as a drain in moist locations.

*EYS/EYD Sealing Fittings & ECD Drains*

#### Cable Fittings (for ordinary and hazardous locations)

For armored, metal clad, jacketed or unjacketed and unarmored cables through a bulkhead or enclosure in ordinary or hazardous areas.



## Conduit Bodies and Covers

### Conduit Outlet Bodies

#### Application

Conduit Bodies are installed in conduit systems to:

- Connect conduit sections
- Act as pull outlets when conductors are being installed
- Provide easy access for splices in branch conductors
- Make 90° bends in conduit runs
- Act as mounting outlets for wiring devices and lighting fixtures
- Provide access to conductors for maintenance and future system changes

#### Features

- Standard features include tapered (NPT) threads and integral bushings to protect wire insulation
- T&B Form 7 bodies and covers are interchangeable with other manufacturers' Form 7 bodies and covers
- T&B Form 8 bodies and covers are interchangeable with other manufacturers' Form 8 bodies and covers
- T&B Form 7 and Form 8 bodies feature BlueKote® internal coating for easier wire pulling
- T&B Series 35 bodies and covers are interchangeable with other manufacturers' 35/5 Series iron and steel bodies and covers

#### Materials

|                                                  |                                                                                     |
|--------------------------------------------------|-------------------------------------------------------------------------------------|
| Form 7, Form 8 and Series 35 Conduit Bodies..... | Sand-cast class 30 gray iron alloy                                                  |
| Stainless Steel Conduit Bodies.....              | Type 316 stainless steel                                                            |
| Red•Dot® Conduit Bodies.....                     | Die-cast aluminum, copper-free                                                      |
| Covers.....                                      | Sand-cast gray iron alloy and stamped sheet steel with steel-stainless steel screws |
| Stainless Steel Covers.....                      | Cast and stamped Type 316 stainless steel with stainless steel screws               |
| Gaskets.....                                     | Neoprene                                                                            |

#### Finish

|                                                 |                                                                                                                                                                    |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form 7, Form 8 and Series 35 Conduit Bodies.... | Zinc-plating with aluminum acrylic coating                                                                                                                         |
| Form 7 and Form 8 Bodies.....                   | Internal PTFE-based BlueKote® coating                                                                                                                              |
| Red•Dot® Conduit Bodies.....                    | Aluminum laquer                                                                                                                                                    |
| Covers.....                                     | Gray iron zinc-plating with aluminum acrylic coating, and stamped steel zinc-plating with clear chromate coating; Form 7 and Form 8 covers include neoprene gasket |
| Stainless Steel Bodies and Covers .....         | Polished                                                                                                                                                           |

#### Listings/Compliances

|                            |
|----------------------------|
| UL Standard: 514A, 514B    |
| Fed. Spec: W-C-586D        |
| CSA Standard: C22.2 No. 18 |



## Conduit Bodies and Covers



### Conduit Bodies Quick Reference

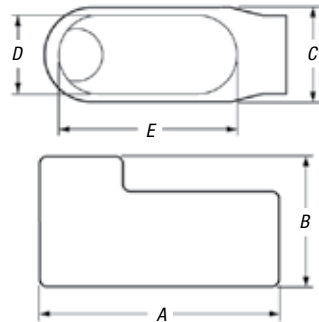
|                                                                                     |                        | HUB SIZE (IN.)         |          |         |         |         |         |                                   |                                   |           |        | SEE PAGE    |
|-------------------------------------------------------------------------------------|------------------------|------------------------|----------|---------|---------|---------|---------|-----------------------------------|-----------------------------------|-----------|--------|-------------|
| SHAPE                                                                               | TYPE                   | ½                      | ¾        | 1       | 1¼      | 1½      | 2       | 2½                                | 3                                 | 3½        | 4      |             |
|    | BlueKote® Form 7       | LB17                   | LB27     | LB37    | LB47    | LB57    | LB67    | LB77                              | LB87                              | LB97      | LB107  | <b>E-71</b> |
|                                                                                     | BlueKote® Form 8**     | LB18                   | LB28     | LB38    | LB448   | LB58    | LB68    | LB78                              | LB888                             | LB98      | LB108  |             |
|                                                                                     | Series 35              | LB50M                  | LB75M-TB | LB100M  | LB125M  | LB150M  | LB200M  | LB250M                            | LB300M                            | LB350M    | LB400M |             |
|                                                                                     | Threaded Aluminum*     | ALB1                   | ALB2     | ALB3    | ALB4    | ALB5    | ALB6    | ALB7                              | ALB8                              | ALB9      | ALB10  |             |
|                                                                                     | EMT Aluminum*          | BLB1                   | BLB2     | BLB3    | BLB4    | BLB5    | BLB6    | BLB7                              | BLB8                              | BLB9      | BLB10  |             |
|                                                                                     | Stainless Steel Form 8 | LB18SST                | LB28SST  | LB38SST | LB48SST | LB58SST | LB68SST | (with covers, gaskets and screws) |                                   |           |        | <b>E-69</b> |
|    | BlueKote® Form 7       | LU17                   | LU27     | LU37    | LU47    | LU57    | LU67    | —                                 | —                                 | —         | —      | <b>E-72</b> |
|                                                                                     | Stainless Steel Form 8 | LU18SST                | LU28SST  | LU38SST | LU48SST | LU58SST | LU68SST | (with covers, gaskets and screws) |                                   |           |        | <b>E-69</b> |
|    | BlueKote® Form 7       | T17                    | T27      | T37     | T47     | T57     | T67     | T77                               | T87                               | T97       | T107   | <b>E-72</b> |
|                                                                                     | BlueKote® Form 8**     | T18                    | T28      | T38-TB  | T448    | T58     | T68     | T78                               | T88-TB                            | —         | —      |             |
|                                                                                     | Series 35              | T50M                   | T75M     | T100M   | T125M   | T150M   | T200M   | T250M                             | T300M                             | T350M     | T400M  |             |
|                                                                                     | Threaded Aluminum*     | AT1                    | AT2      | AT3     | AT4     | AT5     | AT6     | AT7                               | AT8                               | AT9       | AT10   |             |
|                                                                                     | EMT Aluminum*          | BT1                    | BT2      | BT3     | BT4     | BT5     | BT6     | —                                 | —                                 | —         | —      |             |
|                                                                                     | Stainless Steel Form 8 | T18SST                 | T28SST   | T38SST  | T48SST  | T58SST  | T68SST  | (with covers, gaskets and screws) |                                   |           |        | <b>E-69</b> |
|    | BlueKote® Form 7       | C17                    | C27      | C37     | C47     | C57     | C67     | C77-TB                            | C87                               | —         | —      | <b>E-73</b> |
|                                                                                     | BlueKote® Form 8**     | C18                    | C28      | C38     | C448    | C58-TB  | C68     | C78                               | C88                               | —         | —      |             |
|                                                                                     | Series 35              | C50M                   | C75M-TB  | C100M   | C125M   | C150M   | C200M   | C250M-TB                          | C300M                             | C350M     | C400M  |             |
|                                                                                     | Threaded Aluminum*     | AC1                    | AC2      | AC3     | AC4     | AC5     | AC6     | AC7                               | AC8                               | AC9       | AC10   |             |
|                                                                                     | EMT Aluminum*          | BC1                    | BC2      | BC3     | BC4     | BC5     | BC6     | —                                 | —                                 | —         | —      |             |
|  | BlueKote® Form 7       | LL17                   | LL27     | LL37    | LL47    | LL57    | LL67    | LL77                              | LL87                              | LL97      | LL107  | <b>E-74</b> |
|                                                                                     | BlueKote® Form 8**     | LL18                   | LL28     | LL38    | LL448   | LL58    | LL68    | LL78                              | LL888                             | —         | —      |             |
|                                                                                     | Series 35              | LL50M                  | LL75M    | LL100M  | LL125M  | LL150M  | LL200M  | LL250M                            | LL300M                            | LL350M    | LL400M |             |
|                                                                                     | Threaded Aluminum*     | ALL1                   | ALL2     | ALL3    | ALL4    | ALL5    | ALL6    | ALL7                              | ALL8                              | ALL9      | ALL10  |             |
|                                                                                     | EMT Aluminum*          | BLL1                   | BLL2     | BLL3    | BLL4    | —       | —       | —                                 | —                                 | —         | —      |             |
|  | BlueKote® Form 7       | LR17                   | LR27     | LR37    | LR47    | LR57    | LR67    | LR77                              | LR87                              | LR97      | LR107  | <b>E-75</b> |
|                                                                                     | BlueKote® Form 8**     | LR18                   | LR28     | LR38    | LR448   | LR58    | LR68    | LR78                              | LR888                             | —         | —      |             |
|                                                                                     | Series 35              | LR50M                  | LR75M    | LR100M  | LR125M  | LR150M  | LR200M  | LR250M                            | LR300M                            | LR350M-TB | LR400M |             |
|                                                                                     | Threaded Aluminum*     | ALR1                   | ALR2     | ALR3    | ALR4    | ALR5    | ALR6    | ALR7                              | ALR8                              | ALR9      | ALR10  |             |
|                                                                                     | EMT Aluminum*          | BLR1                   | BLR2     | BLR3    | BLR4    | —       | —       | —                                 | —                                 | —         | —      |             |
|  | BlueKote® Form 7       | L17-TB                 | L27-TB   | L37-TB  | L47-TB  | L57-TB  | L67-TB  | —                                 | —                                 | —         | —      | <b>E-76</b> |
|                                                                                     | Threaded Aluminum*     | ALRL1                  | ALRL2    | ALRL3   | ALRL4   | ALRL5   | ALRL6   | —                                 | —                                 | —         | —      |             |
|                                                                                     | EMT Aluminum*          | BLRL1                  | BLRL2    | BLRL3   | BLRL4   | BLRL5   | BLRL6   | —                                 | —                                 | —         | —      |             |
|  | BlueKote® Form 7       | TB17-TB                | TB27     | TB37    | TB47    | TB57    | TB67    | —                                 | —                                 | —         | —      | <b>E-76</b> |
|                                                                                     | BlueKote® Form 8**     | TB18                   | TB28     | TB38    | TB448   | TB58    | TB68    | —                                 | —                                 | —         | —      |             |
|                                                                                     | Series 35              | TB50M                  | TB75M    | TB100M  | TB125M  | TB150M  | TB200M  | —                                 | —                                 | —         | —      |             |
|                                                                                     |                        | Stainless Steel Form 8 | TB18SST  | TB28SST | TB38SST | TB48SST | TB58SST | TB68SST                           | (with covers, gaskets and screws) |           |        |             |
|  | BlueKote® Form 7       | X17                    | X27      | X37     | X47     | X57     | X67     | —                                 | —                                 | —         | —      | <b>E-77</b> |
|                                                                                     | BlueKote® Form 8**     | X18                    | X28      | X38     | X448    | X58     | X68     | —                                 | —                                 | —         | —      |             |
|                                                                                     | Series 35              | X50M                   | X75M     | X100M   | X125M   | X150M   | X200M   | —                                 | —                                 | —         | —      |             |
|  | BlueKote® Form 7       | E17                    | E27      | E27     | —       | —       | —       | —                                 | —                                 | —         | —      | <b>E-77</b> |
|                                                                                     | Threaded Aluminum      | AE1                    | AE2      | AE3     | —       | —       | —       | —                                 | —                                 | —         | —      |             |
|  | BlueKote® Form 7       | TA17                   | TA27     | TA37    | TA47    | TA57    | TA67    | —                                 | —                                 | —         | —      | —           |

\*Aluminum conduit bodies (A and B series 2½" through 4") furnished with one stamped steel cover \*\*½" through 1¼" have (2) mounting holes; 1½" through 4" have (4) mounting holes

## Conduit Bodies and Covers



BlueKote internal finish reduces the amount of force necessary to pull wires through T&B Form 7 and Form 8 conduit bodies.

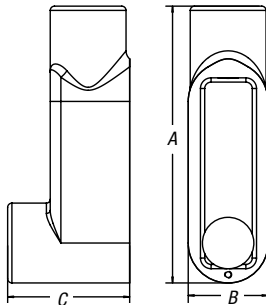


LB Form 7 and Form 8

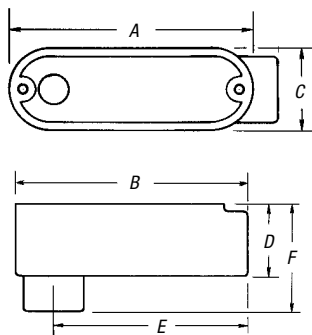
### LB Series 35 Conduit Bodies



| CAT. NO. | HUB SIZE | DIMENSIONS (IN.) |      |      | CU. IN. |
|----------|----------|------------------|------|------|---------|
|          |          | A                | B    | C    |         |
| LB50M    | ½"       | 4.68             | 1.34 | 2.05 | 4.5     |
| LB75M-TB | ¾"       | 5.37             | 1.50 | 2.25 | 7.5     |
| LB100M   | 1"       | 6.20             | 1.80 | 2.65 | 12.5    |
| LB125M   | 1¼"      | 8.12             | 2.60 | 2.75 | 32      |
| LB150M   | 1½"      | 8.12             | 2.60 | 2.83 | 35.3    |
| LB200M   | 2"       | 10.50            | 3.12 | 4.42 | 73      |
| LB250M   | 2½"      | 13.60            | 4.31 | 5.40 | 142     |
| LB300M   | 3"       | 13.87            | 4.31 | 5.90 | 173     |
| LB350M   | 3½"      | 16.25            | 5.62 | 6.90 | 292     |
| LB400M   | 4"       | 16.60            | 5.62 | 7.21 | 324     |



LB Series 35



LB Threaded Aluminum and EMT Aluminum

### LB Form 7 BlueKote® Conduit Bodies



| CAT. NO. | HUB SIZE | DIMENSIONS (IN.) |      |      |      |       | CU. IN. |
|----------|----------|------------------|------|------|------|-------|---------|
|          |          | A                | B    | C    | D    | E     |         |
| LB17     | ½"       | 4.60             | 2.20 | 1.35 | .95  | 3.20  | 4.0     |
| LB27     | ¾"       | 5.25             | 2.40 | 1.65 | 1.15 | 3.80  | 6.6     |
| LB37     | 1"       | 6.00             | 2.65 | 1.80 | 1.35 | 4.55  | 10.6    |
| LB47     | 1¼"      | 6.45             | 3.20 | 2.20 | 1.80 | 5.00  | 18.8    |
| LB57     | 1½"      | 7.25             | 3.90 | 2.45 | 2.05 | 5.45  | 26.4    |
| LB67     | 2"       | 8.30             | 4.45 | 3.10 | 2.45 | 6.40  | 51.0    |
| LB77     | 2½"      | 10.55            | 5.20 | 4.25 | 3.60 | 8.40  | 102.0   |
| LB87     | 3"       | 10.55            | 5.95 | 4.25 | 3.60 | 8.40  | 132.0   |
| LB97     | 3½"      | 12.85            | 6.70 | 5.25 | 4.55 | 10.25 | 210.0   |
| LB107    | 4"       | 12.85            | 7.20 | 5.25 | 4.55 | 10.25 | 243.0   |

### LB Form 8 BlueKote® Conduit Bodies



| CAT. NO. | HUB SIZE | DIMENSIONS (IN.) |      |      |      |       | CU. IN. |
|----------|----------|------------------|------|------|------|-------|---------|
|          |          | A                | B    | C    | D    | E     |         |
| LB18     | ½"       | 4.94             | 2.22 | 1.38 | 1.00 | 3.31  | 4.9     |
| LB28     | ¾"       | 5.56             | 2.44 | 1.56 | 1.19 | 3.31  | 8.0     |
| LB38     | 1"       | 6.50             | 2.81 | 1.75 | 1.38 | 4.56  | 13.0    |
| LB448    | 1¼"      | 7.53             | 3.34 | 2.19 | 1.75 | 5.31  | 23.5    |
| LB58     | 1½"      | 9.13             | 4.03 | 2.75 | 2.13 | 6.50  | 45.0    |
| LB68     | 2"       | 11.00            | 4.41 | 3.75 | 3.00 | 8.56  | 88.0    |
| LB78     | 2½"      | 13.94            | 6.13 | 5.00 | 4.25 | 10.88 | 110.0   |
| LB888    | 3"       | 13.94            | 6.50 | 5.00 | 4.25 | 10.88 | 110.0   |
| LB98     | 3½"      | 16.88            | 7.56 | 6.25 | 5.44 | 13.44 | 250.0   |
| LB108    | 4"       | 16.88            | 7.81 | 6.25 | 5.44 | 13.44 | 250.0   |

### LB Threaded Aluminum Conduit Bodies



| CAT. NO. | HUB SIZE | DIMENSIONS (IN.) |         |      |      |       |      | CU. IN. |
|----------|----------|------------------|---------|------|------|-------|------|---------|
|          |          | A                | B       | C    | D    | E     | F    |         |
| ALB1     | ½"       | 3.88             | 4.28    | 1.31 | 1.44 | 3.50  | 2.06 | 4.3     |
| ALB2     | ¾"       | 4.63             | 5.13    | 1.53 | 1.63 | 4.25  | 2.44 | 7.3     |
| ALB3     | 1"       | 5.38             | 5.15/16 | 1.75 | 1.88 | 4.94  | 2.75 | 11.8    |
| ALB4     | 1¼"      | 7.25             | 7.88    | 2.50 | 2.50 | 6.50  | 3.56 | 32.0    |
| ALB5     | 1½"      | 7.25             | 7.88    | 2.50 | 2.75 | 6.31  | 3.81 | 32.0    |
| ALB6     | 2"       | 9.50             | 9.81    | 3.13 | 3.44 | 8.00  | 4.50 | 69.5    |
| ALB7     | 2½"      | 12.25            | 13.00   | 4.50 | 3.88 | 10.84 | 5.25 | 190.0   |
| ALB8     | 3"       | 12.25            | 13.00   | 4.50 | 4.50 | 10.50 | 5.88 | 190.0   |
| ALB9     | 3½"      | 15.00            | 16.31   | 5.50 | 5.56 | 13.50 | 6.94 | 366.0   |
| ALB10    | 4"       | 15.00            | 16.31   | 5.50 | 5.56 | 13.50 | 6.94 | 366.0   |

### LB EMT Aluminum Conduit Bodies



| CAT. NO. | HUB SIZE | DIMENSIONS (IN.) |       |      |      |       |      | CU. IN. |
|----------|----------|------------------|-------|------|------|-------|------|---------|
|          |          | A                | B     | C    | D    | E     | F    |         |
| BLB1     | ½"       | 3.88             | 4.28  | 1.31 | 1.44 | 3.50  | 2.06 | 4.3     |
| BLB2     | ¾"       | 4.63             | 5.13  | 1.53 | 1.63 | 4.25  | 2.44 | 7.3     |
| BLB3     | 1"       | 5.38             | 5.94  | 1.75 | 1.88 | 4.94  | 2.75 | 11.8    |
| BLB4     | 1¼"      | 7.25             | 7.88  | 2.50 | 2.50 | 6.50  | 3.56 | 32.0    |
| BLB5     | 1½"      | 7.25             | 7.88  | 2.50 | 2.75 | 6.31  | 3.81 | 32.0    |
| BLB6     | 2"       | 9.50             | 9.81  | 3.13 | 3.44 | 8.00  | 4.50 | 69.5    |
| BLB7     | 2½"      | 12.25            | 13.00 | 4.50 | 3.88 | 10.84 | 5.25 | 190.0   |
| BLB8     | 3"       | 12.25            | 13.00 | 4.50 | 4.50 | 10.50 | 5.88 | 190.0   |
| BLB9     | 3½"      | 15.00            | 16.31 | 5.50 | 5.56 | 13.50 | 6.94 | 366.0   |
| BLB10    | 4"       | 15.00            | 16.31 | 5.50 | 5.56 | 13.50 | 6.94 | 366.0   |