

# T&B Conduit Fittings

## Service Entrance Cable Fittings

### Suggested Specifications for Service Entrance Fittings



**Series 4175  
Pipe Strap (EMT)**



**Series 1275/1275AL Pipe Strap  
(Rigid Metal Conduit & I.M.C.)**



**Series 1350/1350AL Pipe Spacer  
(Rigid Metal Conduit I.M.C. & EMT)**



**Series 3870  
Bonding & Grounding Bushing—Insulated**



**Series 106  
Bonding Locknut**

- All service fittings shall be approved for the purpose by a nationally recognized testing laboratory, inspection agency, or product evaluation organization.
- Where service raceway consists of a rigid metal conduit, intermediate metal conduit, electrical metallic tubing or where service entrance cable is used as service conductors a suitable raintight service head conforming to Federal Standard W-C-586 shall be provided.
- Service raceway shall be securely fastened in place to the supporting surface at intervals as specified by the Code using suitable straps and spacers; straps and spacers shall be of malleable iron or steel construction, hot dipped galvanized or electro zinc plated conforming to Canadian Standards Association Standard C22.2 No. 18.4 and as manufactured by Thomas & Betts: series 1275 or 4175 straps and series 1350 spacers; aluminum straps or spacers such as series 1275AL and series 1350AL may be substituted when installed in environmental conditions that are more than normally corrosive.
- For grounding and bonding of service raceway, end of raceway or the terminating fitting shall be equipped with bonding locknuts and insulated metallic grounding and bonding bushing as required.

Bonding locknuts shall be of hardened steel or malleable iron construction, electro zinc plated, and provided with hardened bonding screws as manufactured by Thomas & Betts, series 106 bonding locknuts.

Insulated metallic grounding and bonding bushing shall be of malleable iron/steel construction, electro zinc plated and assembled with an insulator listed or certified for 150°C/302°F service as manufactured by Thomas & Betts, series 3870.

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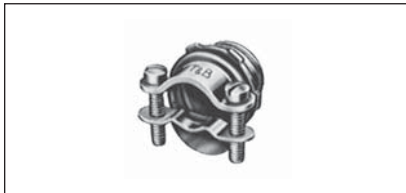
### Suggested Specifications for Service Entrance Fittings—continued



**Series 2111**  
**Service Entrance Cable Fitting**



**Series 2116**  
**Underground Feeder Cable Fitting**



**Series 3302M**  
**Two Screw Fitting (Insulated)**



**Series 5262, 5302**  
**Sealing Gasket**



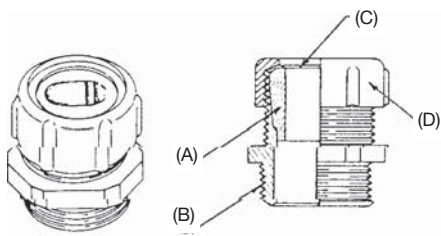
**Series 1341**  
**Cable Strap**

- Where service entrance cable is used as overhead service conductors and code requires use of a service head, entrance caps shall be installed; caps shall be cast metal type of suitable ferrous or non ferrous metal equipped with thermoset insulators and proper knockout openings; when installed with proper drip loop, caps must assure raintight conditions.
- Terminating fittings for service entrance cable (Type SE or USE) or underground feeder and branch—circuit cable (Type UF) in locations where exposed to intermittent or constant moisture or in dry locations and subjected to mechanical strain shall be of watertight strain relief type as manufactured by Thomas & Betts, series 2111 or 2116; fittings shall be constructed of ferrous or non ferrous metal and equipped with taper-threaded hub, beveled moisture resistant/oil resistant synthetic rubber bushing. In dry locations, nylon insulated two screw type fittings of malleable iron/steel construction, electro zinc plated inside and outside including threads, such as series 3302M manufactured by Thomas & Betts may be substituted.
- Where service entrance cable is terminated into a threadless opening using hub type fittings, a gasket shall be provided between the outside of box or enclosure and fitting shoulder; gasket shall be of moisture resistant/ oil resistant synthetic rubber type adequately protected by and permanently retained to a metallic retainer as manufactured by Thomas & Betts, series 5262 or 5302.
- Service entrance cable shall be adequately supported at intervals enumerated in code using cable straps conforming to requirements of CSA Standard C22.2 No.18.4; cable straps shall be of malleable iron/steel construction, hot dipped galvanized or electro zinc plated as manufactured by Thomas & Betts, series 1341.
- At the point where the service cable enters the building, a suitable sill plate shall be provided; sill/wall plate shall be sealed to assure raintight conditions.

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### Service Entrance Cable Fittings



**2111 Series**

#### (Type SE/Type Use)

#### Application

- To connect service entrance cables to a meter box or an enclosure.

#### Standard Material/Finish

Body	Zinc Die Cast/As cast
Gland	Steel/Electro Zinc Plated & Chromate Coated
Retaining Ring	Stainless Steel/Passivated
Bushing	Neoprene/As molded

#### Range

- Oval (Flat) Cable Size  
0.260 x 0.500 thru 1.062 x 1.765
- Type USE Cable Size  
3 #12 thru 3-4/0 AWG Conductors
- Hub Size  
1/4" thru 2" NPT (taper pipe threads)

#### Features

- Neoprene bushing, resists oil and water; grips cable the full length of the bushing providing adequate strain relief without damaging outer jacket (A).

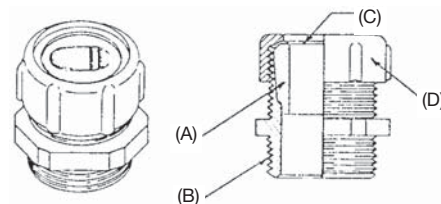
- Taper-threaded body (B).
- Stainless steel retaining ring protects cable jacket against abrasion; reduces installing torque effort (C).
- Rugged ribbed steel gland construction (D).
- Suitable for Type USE I75, USE I90 and USE B90 (CEC Table 19) Service Entrance Cable.

#### Listing/Certification

CEC Rule 6-300 (1) add (b) use underground service entrance with mechanical protection as per CEC Rule 12-012

#### Conformity

U.L.514B, NEMA FB-1, Federal Standard H-28 (Threads), NFPA70-2009 (ANSI) CSA C22.2 No. 18.3



**2116 Series**

### Underground Feeder Cable Fittings

#### Application

- To connect underground feeder cables to a box or an enclosure.

#### Standard Material/Finish

Body	Zinc Die Cast/As cast
Gland	Steel/Electro Zinc Plated & Chromate Coated
Retaining Ring	Stainless Steel/Passivated
Bushing	Neoprene/As molded

#### Range

- Oval (Flat) Cable Size  
0.235 x 0.500 thru 0.260 x 0.740
- Hub Size 1/2" thru 1" NPT (tapered pipe threads)

#### Features

- Neoprene bushing resists oil and water; grips cable the full length of the bushing providing adequate strain relief without damaging outer jacket (A).
- Taper-threaded body (B).
- Stainless steel retaining ring protects cable jacket against abrasion; reduces installing torque effort (C).
- Rugged ribbed steel gland construction (D).

#### Listing/Certification

CEC Rule 30-1004 (d) Wiring method, underground, where deviation has been allowed for permanent outdoor floodlighting installation.

#### Conformity

U.L.514B, NEMA FB-1, Federal Standard H-28 (Threads), NFPA70-2009 (ANSI) CSA C22.2 No. 18.3