

ELB-35-600 Series: 600/900 Amp 35 kV Class T-Body Connector

FEATURES

- Peroxide cured EPDM rubber ensures low tension set and high dielectric strength
- 100% factory production tested for partial discharge and AC Hipot per IEEE 386
- Molded semiconducting shield provides ground shield continuity per the requirements of IEEE 592
- Meets IEEE 386-2006 specification requirements

APPLICATIONS

- Designed to terminate underground cables to high-voltage apparatus such as transformers and switchgear.
- Designed for use on extruded (XLPE or EPR) solid dielectric cable. The conductor range is from #1 AWG to 1250 kcmil for aluminum or copper conductors with insulation diameters from .930" - 2.145".

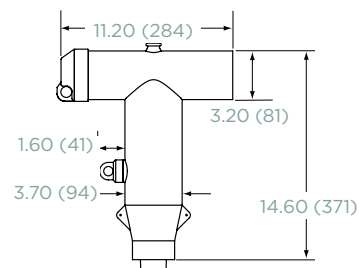
BENEFITS

- Fully Shielded and fully submersible
- Interchangeable with other manufacturers products that conform with this industry standard.
- Optional capacitive test point provided on elbow.
- Fits 35 kV cables up to 1250 kcmil.
- 200 kV BIL design available.
- Exceeds insulation level requirements in IEEE 386.



ELB KIT CONTENTS

Elbow, Insulating Plug*, Cable Adapter, Stud*, Connector*, Silicone Lubricant, Installation Instruction, Jacket Seal (optional) *When Copper shear bolt is specified, kit will automatically include copper insulating plug and stud, therefore offering 900A capability.



The ELB-35-610 Elbow has a capacitive test point molded into the elbow body which provides a means of sensing voltage and provides an attachment point for test point fault indicators. 900A ratings can be achieved by ordering the kit with a copper shearbolt terminal.

As an option, the elbow can also be ordered with TE's Aluminum or Copper shear bolt Terminals. These are range taking mechanical connectors that will accommodate a conductor range from #2 compact to 1250 kcmil stranded, Class B.

The shear bolt terminal design incorporates shear head bolts, which ensures that the correct torque is applied to each bolt and consequently the optimal contact force is generated to minimize connection resistance. Eliminating the need for crimp tooling and dies, they are therefore ideal when installation space is confined.

ADDITIONAL PRODUCT INFORMATION

- To include a sealing kit, add "-ESA" suffix for heat-shrinkable or "-CES" suffix for cold applied sleeve.
- If using copper tape cable, accessory ELB-35-600-GRDx (x = 1, 2, or 3) is required and ordered separately.
- Related test reports: EDR-5476, EDR-5502, EDR-5503, EDR-5543, EDR-5477, EDR-5642
- For a 35 kV Elbow, 600 A with test point, an insulation O.D. of 1.755 inches, and 750 kcmil stranded cable is ELB-35-610R750.

ELB-35-

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Current Rating/Test Point

600 = 600 AMP WITHOUT test point on T-Body
610 = 600 AMP WITH test point on T-Body

Note: 600 AMP kit is provided with aluminum components.

Cable Adapter Selection Cable Insulation O.D. Range

Code	inches (mm)
E	.930-1.040 (23.6-26.4)
F	.980-1.115 (24.9-28.3)
G	1.040-1.175 (26.4-29.8)
H	1.095-1.240 (27.8-31.5)
J	1.160-1.305 (29.5-33.1)
K	1.220-1.375 (31.0-34.9)
L	1.285-1.395 (32.6-35.4)
M	1.355-1.520 (34.4-39.0)
N	1.485-1.595 (37.7-40.5)
P	1.530-1.640 (38.9-41.7)
Q	1.575-1.685 (40.0-42.8)
R	1.665-1.785 (42.3-45.3)
S	1.775-1.875 (45.1-47.6)
T	1.845-1.965 (46.9-50.0)
U	1.935-2.055 (49.1-52.2)
V	2.025-2.145 (51.4-54.5)

Adapters also sold separately:
ELB-35-600-CA-X (X = Code)

Compression Lug Selection

Conductor Size (Aluminum or Copper)

Code	Str/Comp	Compact	Solid
1	—	1/0	1/0
10	1/0	2/0	2/0
20	2/0	3/0	3/0
30	3/0	4/0	4/0
40	4/0	250	—
250	250	300	—
300	300	350	—
350	350	400	—
400	400	450/500	—
450	450	500/550	—
500	500	600	—
550	550	650	—
600	600	700	—
650	650	750/800	—
750	700/750	900	—
800	800	900	—
900	900	1000	—
1000	1000	—	—
1100	1100	—	—
1250	1250	—	—

Compression lugs sold separately: ELB-600-CONN-AL-X (X=Code)

Aluminum Shear Bolt | Conductor Size

Code	Compression, Compact, Strand
-A1	2-350
-A2	350-750
-A3	750-1000
-A4	1000-1250

Copper Shear Bolt | Conductor Size

Code	Compression, Compact, Strand
-C1	2-4/0
-C2	4/0-500
-C3	500-750
-C4	750-1000
-C5	1000-1250

Shearbolts also sold separately: ELB-600-CONN-X (X = Code)

Blank = 150 kV BIL

200 = 200 kV BIL