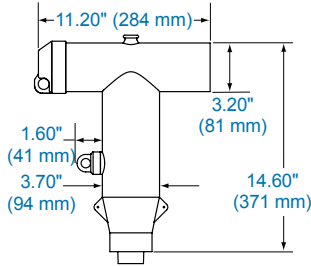




C_ELB_35_600



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

Raychem ELB-35-600 and ELB-35-610 elbows are designed to terminate underground cables to high-voltage apparatus such as transformers and switchgear. They are fully shielded and fully submersible and meet the requirements of IEEE Standard 386. They are interchangeable with other manufacturers products that conform with this industry standard.

They are designed for use on extruded (XLPE or EPR) solid dielectric cable. The conductor range is from 1/0 AWG to 1250 kcmil for aluminum or copper conductors with insulation diameters from .930" to 2.145". 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 new line of Aluminum or Copper ShearBolt Terminals. These are range taking mechanical connectors that will accommodate a conductor range from #2 compact to 1250 kcmil stranded, Class B.

The ShearBolt 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.

- 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
- Optional capacitive test point provided on elbow
- Fits 35 kV cables up to 1250 kcmil
- Molded semiconducting shield provides ground shield continuity per the requirements of IEEE 592
- Meets IEEE 386-2006 specification requirements
- 900 A capability is available

ELB Kit Contents

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

Ordering Information

1. To include a sealing kit, add "-ESA" suffix for heat-shrinkable and "-GES" suffix for cold applied Gelwrap ES closure.
2. If using copper tape cable, accessory ELB-35-600-GRDx (x = 1, 2, or 3) is required and ordered separately.
3. Related test reports: EDR-5476, EDR-5482, EDR-5502, EDR-5503

Selection Information

The part number for a 35 kV Elbow, 600 A with test point, an insulation OD of 1.755", and 750 kcmil stranded cable is ELB-35-610R750. (Or with AL Shearbolt ELB-15/28-610K-A3)



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 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)

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	—	—

Aluminum ShearBolt | Conductor Size

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

Copper ShearBolt | Conductor Size

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