

CLES 390 SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE LIVE END SEALS

The CLES 31590 and CLES 32590 series joints are heat shrink live end seals for three conductor 15 kV and 25 kV jacketed or unjacketed paper and lead, laminated dielectric cable (PILC or VCLC).

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- No lead wiping required for positive oil stops
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Heat activated seals ensure maximum protection against moisture ingress
- Reinforced wraparound sleeve with aluminum foil liner provides rugged protection and a moisture vapour barrier
- Wide cable ranges reduce inventory
- Pressure tested for continuous operation at 15 psig at 110°C
- Slim profile allows installation in confined areas

STANDARDS

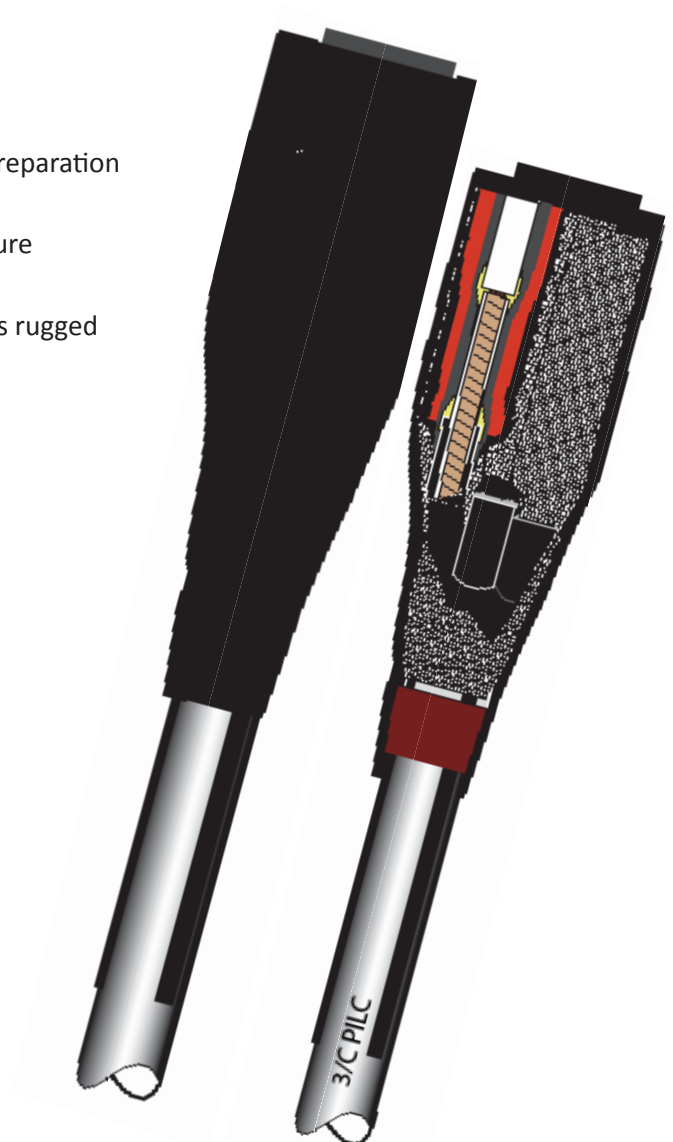
- Rated to IEEE 404-2000

TEST REPORTS

CLES 390 series joint qualification is based on the testing of the 15 kV trifurcating transition joints where the oil stop was proven, and the dielectric tests in the 15 kV and 25 kV single conductor joint tests respectively, as tested to IEEE 404-2000 at an independent laboratory.

Test reports are available as follows:

- CJT 1580 series: HVS031104
- CJ 1580 series: HVS031103
- CJ 2580 series: HVS040423



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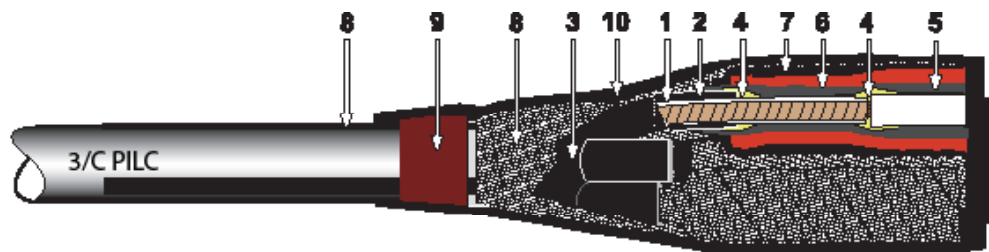
DIMENSIONS

ORDER NUMBER	CONDUCTOR SIZE	INSULATION DIAMETERS 1/C PILC OR POLY RANGE	INSTALLED LENGTH
	AWG/KCMIL	IN	IN (NOM.)
15 kV PILC LIVE END SEAL FOR 3/C PILC CABLE ONLY (154 - 220 MILS INSULATION)			
CLES 31591	#4 - 4/0	0.55 - 1.05	27.0
CLES 31592	4/0 - 500	0.80 - 1.35	27.0
CLES 31593	500 - 1000	1.35 - 1.85	27.0
25 kV PILC LIVE END SEAL FOR 3/C PILC CABLE ONLY (260 - 320 MILS INSULATIONS)			
CLES 32591	#1 - 300	0.80 - 1.25	28.0
CLES 32592	350 - 500	1.00 - 1.45	31.0
CLES 32593	600 - 1000	1.50 - 1.70	32.0

SELECTION

- Find the cable's voltage class and conductor size(s) to be spliced. Select the kit part number that covers the conductor size range. Confirm the dimensional data; particularly when the conductor size is at the extremes of the range. The overlap in size ranges allows for size transitions when splicing different cable sizes. The determining factors for selection are that the minimum and maximum dimensions for the primary insulation and connector dimensions are met and that the jacket diameter(s) maximums are not exceeded.
- For size transitions outside the listed range consult the factory.

15 - 25 kV, 3/C PAPER-LEAD CABLE LIVE END SEALS



- | | |
|--|----------------------------------|
| 1 OSTC oil stop tube | 6 CFXB insulating tube(s) |
| 2 CCON conductive shielding tube | 7 CCON conductive shielding tube |
| 3 CCB conductive breakout boot | 8 Tinned copper mesh and braid |
| 4 SCS stress control/oil block sealant | 9 CTSR environmental sealant |
| 5 CSCR stress control tube | 10 CCAP end cap |

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