



SPECIFICATIONS AND RATINGS

IEEE: IEEE 404

OPTIONS:

- Alternative shield/neutral connection systems (constant force spring, LC connector, etc.)
- Compression or Shear Bolt connectors in Copper or Aluminum
- Cable Clean Prep Kit that includes Cleaning Pads and Al Oxide Abrasive Cloth (add -PREP to part number)

DESIGN FEATURES

UNIFORM CUTBACK DIMENSIONS

The Elaspeed™ Splice is expanded to allow 'parking' on one side of the splice area, over the cable jacket. Installer errors during cable preparation are minimized, because cutbacks for jacket, shield, semiconductor and insulation are identical for both cables to be spliced.

WATERTIGHT INSTALLATION

Major accessory users are concerned that ingress of water in damaged cable jackets and unsealed splices can lead to premature failures. The Elaspeed splice has successfully passed IEEE 404-1993, the industry standard for splices. The Elaspeed splice also passes pressure tests at an external pressure of 45 psi. Internal mastic seals ensure that even cable jacket damage will not allow water to enter the splice area.

SMALL PROFILE

Elaspeed™ Splices behave like EPR cable when it comes to bending in tight manhole situations. Splices can be bent to the same radius as the cable on which it is applied. This small profile consumes less racking space as well.

RANGE-TAKING CAPABILITY

The splice can easily accommodate different types of insulation (EPR to XLPE), different insulation thicknesses (175 mil to 220 mil, or 260 mil to 345 mil), as well as different conductor sizes and metals.

DESCRIPTION

Elaspeed™ splices utilize cold shrink technology – widely recognized as the leading edge “delivery system” for cable accessories. No special tools or torches are required. Cold shrinking the splice ensures concentric splice recovery. Even in tight installation spaces, Elaspeed splices recover to give consistent insulation wall thickness. The Elaspeed core, constructed from ethylene propylene rubber (EPR) insulation, is manufactured on a vertical extruder to ensure complete concentricity to the tightest tolerance possible. The Elaspeed splice is a “complete” splice, containing the splice core, a shielding braid and a jacket. Elaspeed splices are suitable for installation in aerial, direct bury, duct bank and manhole environments. If installed in an aerial environment, a serve wire or basket support should be utilized to support the weight of the cable.

WHY USE ELASPEED™ SPLICES?

SPEED

An Elaspeed™ Splice can be performed in 30 minutes or less, saving time and money over other splices.

TESTING

All Elaspeed™ Splices are pre-tested as cable to ensure that the splice will maintain the integrity of the electrical system. The Elaspeed™ EPR insulation system provides the highest dielectric strength over the full voltage range as well as the highest BIL available from any splice technology.

SAFETY

Elaspeed™ Splices utilize cold shrink technology, which requires no open flames, eliminating the problems associated with handling and transporting gas bottles.

RELIABILITY AND REPEATABILITY

Elaspeed splices are reliable because they always shrink uniformly, and there is only one part to shrink – the triple-extruded body. Tight manhole spaces can create difficulty in assuring that the multiple layers of heat shrink splices receive adequate heating over the entire cable radius. No matter how many splices must be installed, the last splice will be as reliable as the first. The physical effort associated with push-on and tape splices is eliminated with the simple cold shrink technique.

5-15kV ELASPEED™ Splice

Part Number	Cable Size Range	Shielding Braid Size	Insulation Diameter Min. Inches	Insulation Diameter Max. Inches	Jacket Diameter Max. Inches
5kV - 100% Insulation Level (90mil)					
5SDJBe	3/0 - 250	1/0	0.68"	1.13"	1.34"
5SEJCe	250 - 500	1/0	0.76"	1.26"	1.49"
5SFJCe†	500-750	1/0	0.91"	1.42"	1.89"
5SHJCe†	500-750	1/0	0.96"	1.57"	1.97"
5SIPJCe	500-1000	2/0	1.09"	1.77"	2.24"
5SIJCe	1000-1000	1/0	1.26"	2.20"	2.64"
5kV - 133% Insulation Level (115 mil)					
5SDJBe	2/0 - 250	1/0	0.68"	1.13"	1.34"
5SEJCe*	4/0 - 350	1/0	0.76"	1.26"	1.49"
5SFJCe	350 - 500	1/0	0.91"	1.42"	1.89"
5SHJCe	500 - 500	1/0	0.96"	1.57"	1.97"
5SIPJCe	750 - 1000	2/0	1.09"	1.77"	2.24"
5SIJCe	1000 - 1000	1/0	1.26"	2.20"	2.64"
15kV - 100% Insulation Level (175mil)					
15SDJBe	2 - 3/0	1/0	0.68	1.13	1.34
15SEJCe	1/0 - 250	1/0	0.75	1.26	1.49
15SFJCe†	4/0 - 500	1/0	0.91	1.42	1.89
15SHJCe†	250 - 500	1/0	0.96	1.57	1.97
15SIPJCe	500 - 750	2/0	1.09	1.77	2.24
15SIJCe	750 - 1000	1/0	1.26	2.20	2.64
15kV - 133% Insulation Level (220 mil)					
15SDJBe	2 - 2/0	1/0	0.68	1.13	1.34
15SEJCe*	2 - 4/0	1/0	0.75	1.26	1.49
15SFJCe	3/0 - 500†	1/0	0.91	1.42	1.89
15SHJCe	4/0 - 500†	1/0	0.96	1.57	1.97
15SIPJCe	350 - 750	2/0	1.09	1.77	2.24
15SIJCe	500 - 1000	1/0	1.26	2.20	2.64
25kV - 100% Insulation Level (260 mil)					
25SDJBe	1 - 1/0	1/0	0.68	1.13	1.34
25SEJCe	1 - 2/0	1/0	0.75	1.26	1.49
25SFJCe**	1/0 - 350	1/0	0.91	1.42	1.89
25SHJCe	2/0 - 500	1/0	0.96	1.57	1.97
25SIPJCe	250 - 500	2/0	1.09	1.77	2.24
25SIJCe	500 - 1000	1/0	1.26	2.20	2.64
25kV - 133% Insulation Level (320 mil)					
25SFJCe	1 - 4/0	1/0	0.91	1.42	1.89
25SHJCe	1 - 350	1/0	0.96	1.57	1.97
25SIPJCe	3/0 - 500	2/0	1.09	1.77	2.24
25SIJCe	350 - 1000	1/0	1.26	2.20	2.64
35kV - 100% Insulation Level (345 mil)					
35SHJC	1 - 250	1/0	0.96	1.57	1.97
35SIPJC	1/0 - 500	1/0	1.09	1.77	2.24
35SIJC	4/0 - 1000	1/0	1.26	2.20	2.64
35SJJC	1250 - 2000	4/0	1.77	2.83	3.34
35kV - 133% Insulation Level (420 mil)					
35SHJC	1/0 - 3/0	1/0	0.96	1.57	1.96
35SIPJC	1/0 - 350	1/0	1.09	1.77	2.24
35SIJC	2/0 - 750	1/0	1.26	2.20	2.63
35SJJC	1000 - 2000	4/0	1.77	2.83	3.34

* These kits will not fit #2 solid conductor

** Splice kit will not fit 1/0 solid conductor

† For copper tape shielded cables this range can be extended to 750kcmil

Splice Part Number Designation

Size selection is based on typical URD cable parameters:

- Class B Compressed Round Copper conductor.
- AEIC minimum insulation diameters.
- One-third concentric neutral.
- Concentric neutral wires not being brought out for grounding or fault current protection.
- Encapsulated jacket.
- XLPE or EPR Shielded Power Cable.

If the cable design or installation is based on other parameters, the recommended splice size may change.

Notes:

- 1) When selecting kits at the top end of the use range, check for proper fit over jacket. Also consider the increased diameter associated with CN wire folded back over cable jacket.
- 2) The selection guide is based on jacketed concentric neutral cables. When using LC or copper tape shield cables, the range may be extended upwards.
- 3) The lower case "e" in the part numbers 15 thru 28kV indicates the splices have a built-in electrode. This eliminates the need to apply high permittivity mastic over the connector. The three larger (H, IP, I and J) 35kV splices are supplied with high permittivity mastic.
- 4) Prysmian Elasppeed splices meet IEEE 404 specifications.

Contact your Prysmian sales representative for more information such as data on size transition limits or for conductor sizes not shown.

Splice Selection and Ordering

Conductor connectors can be supplied in the splice kits for copper, aluminum and transition sizes. To indicate the size of the connector to be included in the kit add the following for Class B compressed stranding:

- For a Class B compact conductor or a solid conductor add "-C" or "-S", respectively.
- To indicate the conductor metal for the connector add "-CU" or "-AL" for copper & aluminum, respectively.

Conductor Size	Option Code	Conductor Size	Option Code
2 AWG	-2	250 MCM	-250
1 AWG	-1	350 MCM	-350
1/0 AWG	-1/0	500 MCM	-500
2/0 AWG	-2/0	750 MCM	-750
3/0 AWG	-3/0	1000 MCM	-1000
4/0 AWG	-4/0		

PRODUCT NOTES:

"S" Items are Prysmian authorized stock.

The above dimensions are approximate and subject to normal manufacturing tolerances.

All metric (SI) dimensions are derived from a soft conversion.