

ELASPEED™

Medium Voltage 3C PILC Transition Splice Kits



DESCRIPTION

Prysmian 3C Transition Splices are designed to give the reliability required when splicing three conductor paper lead cable (PILC) to three single conductor solid dielectric polymeric cables. The major cold shrink components of the splice kits are manufactured from specialty formulated EPR materials. These components when installed shrink uniformly to create a joint that not only can withstand high electrical stresses, but also performs well against highly physical stresses caused by internal oil pressure and extreme water pressure. Additionally, the trifurcating break out boot and splice jackets exhibit excellent resistance to abrasion. Prysmian Transition splice meets or exceeds IEEE 404 and covers voltages from 5kV to 28kV. Connectors can be supplied in the kit as required. Because of the variables covering many PILC cables, please contact Prysmian with cable details before making a final kit selection.



SPECIFICATIONS AND RATINGS:

- IEEE 404

Splice Kit Selection



The splice kit is assembled after considering the cable dimensions of the three core (3C) PILC cable, the solid dielectric polymeric cables, and the connector selected.

EXAMPLE: 25SIPJC-T3EF-NG-ALSB3

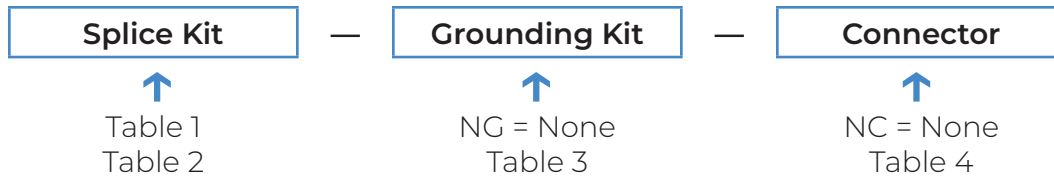


TABLE 1 – Splice Kit per 15kV Cables

		RANGES PER 15kV CABLES						
		PILC Cable		EPR / POLY CABLE				
Catalog ID	Voltage Range	Round PILC Cable Size	Sectoried PILC Cable Size	Cable Size	Insulation OD	Max Cable OD	Max Connector Length	Max Connector OD
15SEJC-T3AA	5-15kV	3/0 - 300	3/0 - 300	2 - 250	0.75" - 1.26"	1.496"	6.69"	1.26"
15SFJC-T3BB	5-15kV	300 - 800	300 - 800	3/0 - 500	0.91" - 1.42"	1.890"	6.69"	1.42"
25SHJC-T3DE	5-28kV	350 - 800	350 - 800	4/0 - 500	0.96" - 1.57"	1.969"	8.66"	1.46"
25SIPJC-T3EF	5-28kV	500 - 1000	450 - 800	350 - 750	1.09" - 1.77"	2.244"	8.66"	1.77"

TABLE 2 – Splice Kit per 25kV Cables

		RANGES PER 25kV CABLES						
		PILC Cable		EPR / POLY CABLE				
Catalog ID	Voltage Range	Round PILC Cable Size	Sectoried PILC Cable Size	Cable Size	Insulation OD	Max Cable OD	Max Connector Length	Max Connector OD
25SHJC-T3DE	5-28kV	4/0 - 600	4/0 - 650	2/0 - 500	0.96" - 1.57"	1.969"	8.66"	1.46"
25SIPJC-T3EF	5-28kV	300 - 900	300 - 650	250 - 750	1.09" - 1.77"	2.244"	8.66"	1.77"

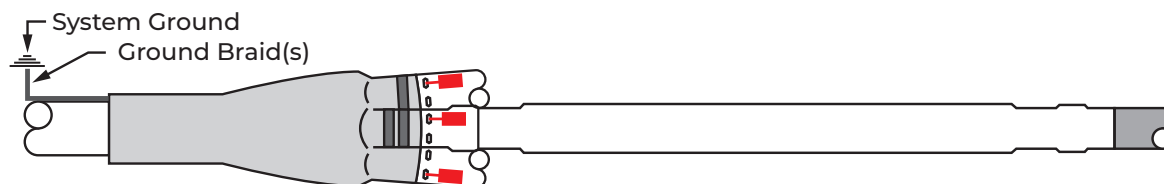
NOTE: PILC cable ranges are estimates based on AEIC CS1-90 calculations and the EPR/POLY cable ranges are estimates based on ICEA S-94-649 calculations at 100% insulation levels. Because of the variables covering many PILC cables, please contact your Prysmian representative before making a final kit selection

EXTERNAL GROUNDING ADD-ONS:

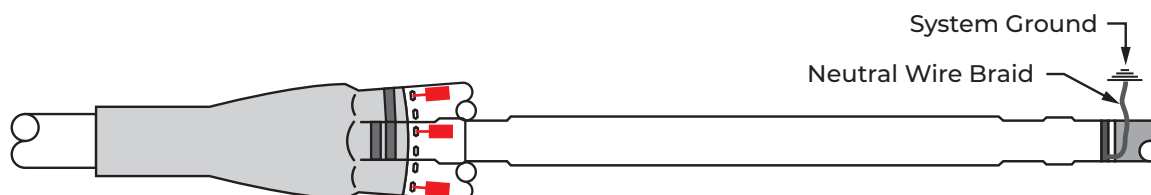
Prysmian Elaspaced Splice is a fully integrated splice that can be left internally grounded or externally grounded. External grounding options will depend on the cable neutral shield. If you are working with Jacketed Concentric Neutral or Flat Strap cable the neutrals can be pulled out of the splice and grounded. Alternatively ground braids can be utilized to externally ground the splice. Add the Ground Kit catalog ID to the kit designation. If no grounding kit add-on is needed use "NG".

TABLE 3 – Grounding Kits

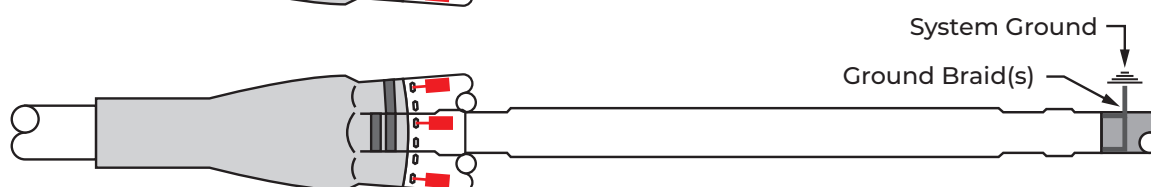
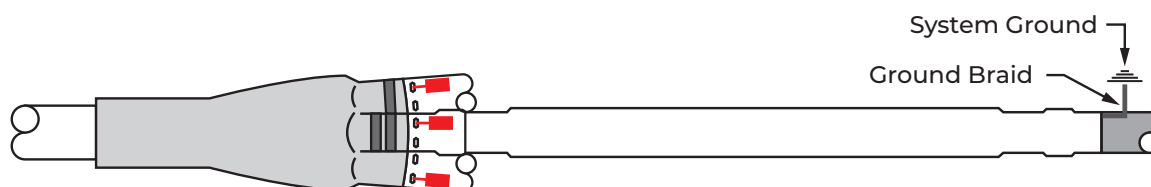
Catalog ID	Description	Ground Size	Braid Length	GROUNDING LOCATION	
				PILC Cable	EPR / POLY Cable
NG	No Grounding Kit	–	–	–	–
GB1200	One #2 AWG Braid with Solder Block	#2 AWG	24"	1 at Lead Sheath	–
GB3200	Three #2 AWG Braids with Solder Block	#2 AWG	24"	3 at Lead Sheath	1 per Cable
GB6200	Six #2 AWG Braids with Solder Block	#2 AWG	24"	–	2 per Cable



External Grounding the PILC Cable with Ground Braid(s)



External Grounding the EPR/POLY Cables with Neutral Wires



External Grounding the EPR/POLY Cables with One or Two Ground Braids per Cable

SPLICE CONNECTOR ADD-ON:

The Prysmian Elaseed Splice is compatible with a wide range of connectors available in the market so long as they fall within the connector limits specified in Tables 1 and 2 and meet the requirements of NOTE 3. Below are the recommended splice connectors Prysmian can supply with these kits. If no connector is to be included in the kit use "NC", otherwise use the catalog ID listed in the table

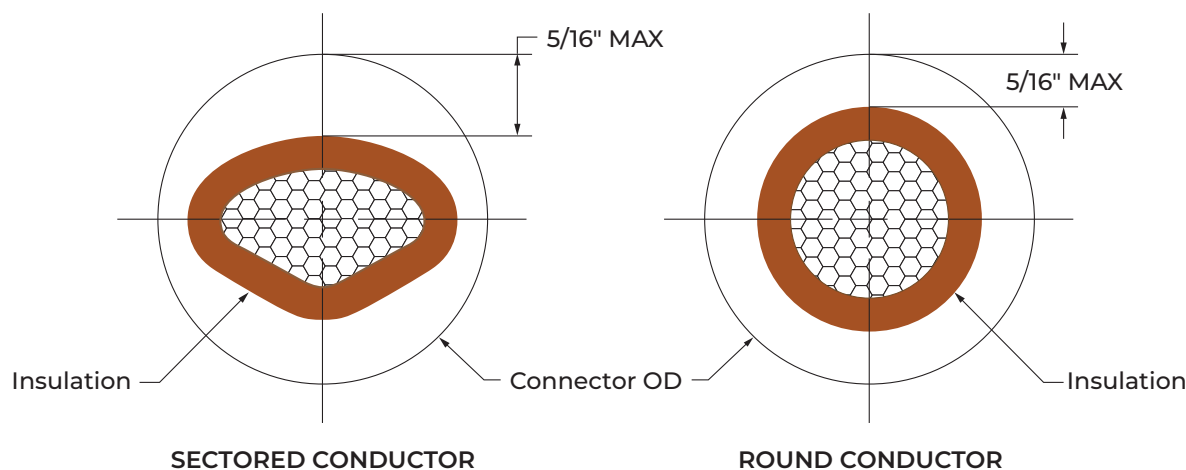
TABLE 4 – Recommended Shear Bolt Connectors

Catalog ID	Round Conductor NOTE 1	Sector Conductor NOTE 2	Tooling	15SEJC-T3AA	15SFJC-T3BB	25SHJC-T3DE	25SIPJC-T3EF
				Splice Kits NOTE 3			
NC	–	–	–	–	–	–	–
ALSB1	#6 AWG – 3/0 AWG	#2 AWG – 1/0 AWG	5 mm Hex Key	X	X	X	X
ALSB2	#2 AWG – 250 kcmil	#2 AWG – 4/0 AWG	5 mm Hex Key	X	X	X	X
ALSB3	1/0 AWG – 500 kcmil	1/0 AWG – 500 kcmil	6 mm Hex Key	–	X	X	X
ALSB4	350 kcmil – 750 kcmil	350 kcmil – 500 kcmil	8 mm Hex Key	–	X	X	X

NOTE 1: Covers round solid, compact, compressed, and concentric conductor sizes.

NOTE 2: Refers to sector stranded 120° conductors. If you're splicing a conductor with a different sector stranding, please contact your Prysmian Representative for guidance. If a sector cable is not compatible with a particular connector listed but meets the round conductor requirement, it is possible to round a sector conductor using specific dies.

NOTE 3: When selecting a connector, you must consider the PILC cable geometry in reference to the connector diameter. The transition kit utilizes an oil barrier tube that is designed to roll up from the PILC cable insulation and onto the connector. It is recommended that the max difference between the connector OD and the paper insulation be 5/16 INCH MAX. If you exceed this value, we cannot guarantee the oil barrier tube can be consistently installed as directed.





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