



Energy Division

Raychem Rayfit In-Line Heat Shrinkable Splices HVS-C-1520S & HVS-S-1520S 1/C Shielded Cable 15 kV,

Tyco Electronics introduces a new one-piece 15 kV splice for use with solid dielectric cables, including copper tape shielded, wire shielded, UniShield shielded, and lead sheath power cables.

The requirements on today's splicing technologies are high. Reliability, simple installations and cost effectiveness are the key requirements to achieving a dependable network. Cable accessories using Rayfit components are an excellent solution to fulfill these requirements.

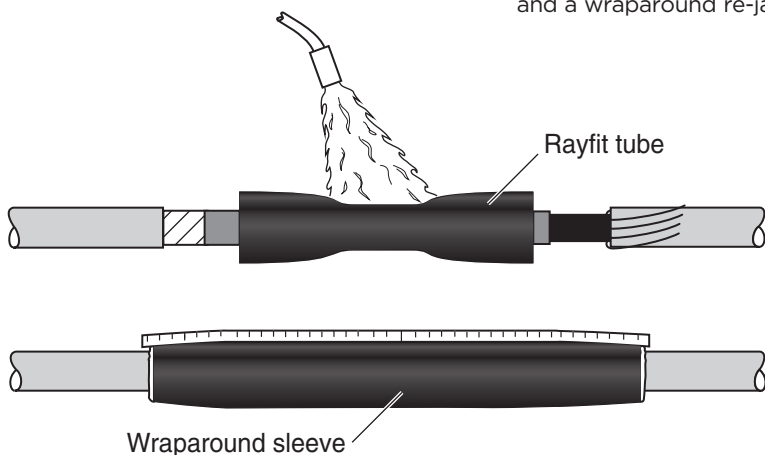
Features

- This series of splices utilizes the new triple-extrusion Rayfit splice sleeve. This new sleeve provides high recovery forces resulting in superior interfacial pressure, reduced shrink and installation time, and a slimmer space saving profile.
- Each kit contains all of the components required for the complete joint assembly, excluding connectors, unless a -M kit is ordered.
- The installed length of the kit is greatly reduced with the use of the Rayfit sleeve and a wraparound re-jacketing system.

- The base HVS-C-1520S series accepts both copper and aluminum compression connectors.
- HVS-C-152xS-M1 and M2 kits include a range taking copper ShearBolt connector for use with copper conductor.
- HVS-S-152xS-M (4-9) kits include a range taking aluminum ShearBolt connector for use with aluminum or copper conductor. HVS-S-152x-M (4-9) kits are supplied with stress control shim tubes to increase the insulation diameter.

Testing

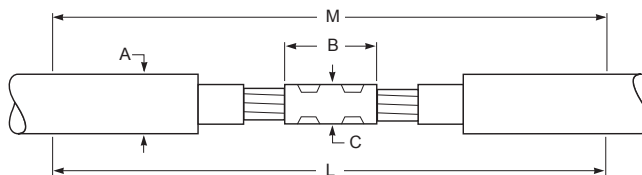
- All HVS-C-1520S and HVS-S-1520 splices have been qualified to IEEE-404-2006 at 105°C. (140°C emergency operation) with the outer wraparound jacket removed for underwater load cycling.



 **Tyco Electronics**

Our commitment. Your advantage.

Selection Information: Dimensions in Inches (millimeters)



Catalog Number	Conductor Size (AWG/kcmil)	Insulation Diameter (Min-Max)	Jacket O.D. (Max)	Maximum Connector Dimensions		Kit Installed Length L	Required Installation Space M
			A	B	O.D. C		
HVS-C-1520S Without Connector							
HVS-C-1521S	#2 - 2/0	0.65 - 0.95 (17 - 24)	1.20 (30)	4.00 (100)	0.80 (20)	28.00 (700)	28.00 (700)
HVS-C-1522S	3/0 - 400	0.85 - 1.30 (23 - 33)	1.65 (42)	5.00 (125)	1.20 (30)	28.00 (700)	28.00 (700)
HVS-C-1523S	500 - 750	1.10 - 1.55 (28 - 47)	1.90 (48)	6.00 (150)	1.45 (44)	35.00 (870)	35.00 (870)
HVS-C-1524S	750 - 1000	1.30 - 1.90 (33 - 48)	2.30 (58)	8.00 (200)	1.85 (47)	35.00 (870)	35.00 (870)

Catalog Number	Conductor Size (AWG/kcmil)	Insulation Diameter (Min-Max)	Jacket O.D. (Max)	Connector Dimensions		Kit Installed Length L	Required Installation Space M
			A	B	O.D. C		
HVS-C-1520S with Copper Mechanical ShearBolt Connector							
HVS-C-1522S-M1	3/0 - 400	0.85 - 1.30 (23 - 33)	1.20 (30)	4.0 (100)	1.20 (30)	28.00 (700)	28.00 (700)
HVS-C-1523S-M2	500 - 750	1.10 - 1.55 (28 - 47)	1.45 (47)	5.0 (125)	1.45 (37)	35.00 (870)	35.00 (870)

M1 = CSBS-20C-500C-SOS
M2 = CSBS-300C-750C-SOS

Catalog Number	Conductor Size (AWG/kcmil)	Insulation Diameter (Min-Max)	Jacket O.D. (Max)	Connector Dimensions		Kit Installed Length L	Required Installation Space M
			A	B	O.D. C		
HVS-S-1520S with Aluminum Mechanical ShearBolt Connector							
HVS-S-1522S-M4	#2 - 2/0	0.65 - 0.95 (17 - 24)	1.20 (30)	2.50 (65)	.095 (24)	28.00 (700)	28.00 (700)
HVS-S-1522S-M5	2/0 - 350	0.79 - 1.19 (20 - 30)	1.65 (42)	4.00 (100)	1.25 (30)	28.00 (700)	28.00 (700)
HVS-S-1523S-M6	350 - 500	1.04 - 1.33 (26 - 34)	1.80 (45)	5.00 (125)	1.30 (34)	35.00 (870)	35.00 (870)
HVS-S-1524S-M8	500 - 750	1.16 - 1.55 (29 - 39)	1.90 (48)	6.00 (150)	1.55 (40)	35.00 (870)	35.00 (870)
HVS-S-1524S-M9	750 - 1000	1.35 - 1.70 (34 - 43)	2.30 (58)	8.00 (200)	1.75 (43)	35.00 (870)	35.00 (870)

M4= ASBS-2-3/0
M5= ASBS-2-350
M6= ASBS-3/0-500
M8= ASBS-500-750
M9= ASBS-600-1000

Selection Information: Dimensions in Inches (millimeters)

Catalog Number	Insulation Diameter (Min.-Max.)	Length of Moisture-Blocked Braid	Braid Size (AWG)
1/C cables			
HVS-EG-1	0.30-1.25 (8-32)	24 (610)	#8
HVS-EG-2	1.00-2.15 (25-55)	24 (610)	#6
HVS-EG-3	1.55-3.40 (39-86)	24 (610)	#4
3/C cables			
HVS-EG-3-1	0.30-1.25 (8-32)	36 (914)	#8
HVS-EG-3-2	1.00-2.15 (25-55)	36 (914)	#6
HVS-EG-3-3	1.55-3.40 (39-86)	36 (914)	#4

Ordering Information

1. Select the appropriate catalog number. All selections are based on the typical dimensions for both 100 and 133% insulated cables, nominal insulation thickness 0.175-0.220".
2. Use the insulation OD, and jacket OD range as the final ordering criteria.
3. Kits can be installed with either aluminum or copper compression connectors (connectors not included with kit).
4. If external grounding, order an HVS-EG kit.
5. Standard package: 1 kit/box
6. Related test reports EDR-5440 for HVS-C and test report EDR-5444 for HVS-S, IEEE 404-2006 and IEEE-48 draft 2008 for 105 °C of Splice and Terminations.
7. For AL Mechanical ShearBolt connector information request datasheet 9-1773440-4 and for CU request 165972.

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Energy Division - a pioneer in the development of economical solutions for the electrical power industry. Our product range includes: Cable accessories, connectors & fittings, electrical equipment, instruments, lighting controls, insulators & insulation enhancement and surge arresters.