



Raychem Rayvolve RVS Low Voltage Cable Connection Kits

Raychem
from TE Connectivity

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Raychem Rayvolve RVS kits are the easy, "roll-on" way to insulate and seal cable connections up to 1kV.

The gripping force of the specially formulated EPDM elastomer combines with a high-performance sealant to form a reliable, water-resistant, insulating sleeve that is UL listed and CSA certified for direct burial applications over in-line compression connectors. In addition, RVS kits are well suited for evaluation in other applications:

- residential junction blocks
- connections to secondary network protectors
- joint covers for "Y" connections in street lighting circuits
- cable connection for overhead bundled cable
- environmental seals for terminal lugs and insulated airport connectors.

Four sizes of Rayvolve sleeves cover all common low voltage cable types from #8 AWG-1000 kcmil (10-500 mm²).

Easy, tool-free installation

Raychem Rayvolve sleeves feature a dual-wall design with an entrapped lubricant, making installation fast and simple. The elastomeric sleeve rolls onto the cable with minimal effort, even at temperatures below -25°C. The cable can be energized immediately after installation. It is ideal for use where gas or electric heating devices are not allowed.

Repeatable results

The pre-engineered wall thickness of the Rayvolve sleeve assures consistent field installations. With tape, insulation is dependent on the number of layers applied.

Reliable seal meets UL, ANSI, and CSA standards

The compression of the elastomeric sleeve on the sealant forms a water and dirt resistant seal even on grooved or out-of-round cables. Raychem RVS kits meet UL 486D (Underwriters Laboratories Inc.; Insulating Tubing as cover connectors for underground conductors) and CSA 22.2 No. 198.2 (Canadian Standards Association; Low Voltage Splice Kits). They are tested in accordance to ANSI C119.1-1986.

Superior insulation

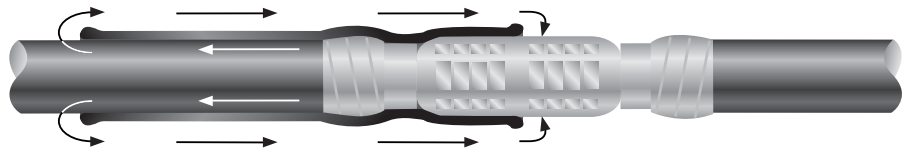
The EPDM elastomer resists damage from exposure to: moisture, ozone, fungus, and temperature extremes from -40°C to 130°C.

Long service life

The stabilized EPDM resists aging very well. Results from heat aging and weathering studies demonstrate the material's ability to resist degradation caused by these factors.

Fast and simple installation

Clean the cable. The Rayvolve sleeve rolls quickly and easily onto the cable. It eliminates time-consuming taping. After connecting the conductors, apply a strip of sealant on each side of the cable at the insulation cut-back. Roll the Rayvolve sleeve into position over the sealant and connector area, completing the joint.



Selection Guide

Rayvolve RVS selection guide and application dimensions

Recommended range for up to 1 kV single-conductor cable jointing.

	Nominal Cable size	Cable O.D. Min-Max	Max. Connector Dim. Diameter	Length	Sleeve Length
RVS-11	#8-2/0 AWG	0.22-0.68 in	0.68 in	5.0 in	8.0 in
	10-70 mm ²	6-17 mm	17 mm	127 mm	205 mm
RVS-12	1/0-250 kcmil	0.48-0.90 in	1.00 in	4.5 in	9.5 in
	50-120 mm ²	12-23 mm	25 mm	115 mm	240 mm
RVS-13	250-600 kcmil	0.69-1.20 in	1.48 in	7.0 in	12.0 in
	120-300 mm ²	18-30 mm	38 mm	180 mm	305 mm
RVS-14	600-1000 kcmil	0.96-1.50 in	1.88 in	9.0 in	14.0 in
	300-500 mm ²	25-38 mm	48 mm	225 mm	355 mm

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Tyco Electronics Raychem GmbH
a TE Connectivity Ltd. Company
TE Energy
Finsinger Feld 1
85521 Ottobrunn/Munich, Germany

Phone: +49-89-6089-0
Fax: +49-89-6096345

energy.te.com

