

RAYCHEM HEAT SHRINK WRAPAROUND SLEEVES CRSM

FOR CABLE JACKET REPAIR AND REJACKETING



IDEAL FOR INSULATING, SEALING OR REJACKETING 1000V POWER CABLES AND AS A CABLE JACKET REPAIR FOR MEDIUM VOLTAGE CABLES.

APPLICATIONS

- Underground power networks
- Onshore and offshore wind energy

STANDARDS AND TEST REPORTS

- Qualified to ANSI C119.1 and EN 50393:2015
- Flexible insulating sleeving test standard IEC 60684-2

KEY FEATURES

- Cross-linked polyolefin material, halogen-free and non-corrosive
- Reliable closure system and environmental seal with excellent bonding
- Easy to install without special tools
- Unlimited shelf-life under normal conditions
- RoHS and REACH compliant

TE's Raychem CRSM heat shrink wraparound sleeves fit easily onto the cable to repair the outer jacket and seal it against moisture. The closure system consists of a raised rail profile and a stainless steel channel which can be installed without any special tools. The hot-melt sealant provides a reliable, environmental seal.

Our CRSM wraparound sleeves are mainly used as insulation, sealing or as a rejacketing material for 1000V power cables. They can also be used for cable jacket repairs on medium voltage power cables and as protection on various substrates, where installation space is tight or difficult to reach.

Our CRSM wraparound sleeves are halogen-free and stabilized against UV radiation which ensures their long-term reliability in harsh environments. They have an unlimited shelf-life when stored under normal conditions.

TECHNICAL SPECIFICATIONS

Physical Characteristics	Test Method	Material Requirements
Tensile Strength	IEC 60684-2/ASTM D412	≥ 14 MPa
Ultimate Elongation	IEC 60684-2/ASTM D412	≥ 350%
Hardness	IEC 60684-2	≥ 50 Shore D
Low Temperature Flexibility	IEC 60684-2/ASTM D2671	No cracking at 4 hours at -30°C ± 3°C (-22°F ± 3°F)
Dielectric Strength	IEC 60684-2/ASTM D149	≥ 12 kV/mm
Volume Resistivity	IEC 60684-2/ASTM D257	≥ 1 x 10 ¹² Ohm cm
Water Absorption	IEC 60684-2	≤ 0.5% max after 14 days at 23°C ± 2°C (73.4°F ± 2°F)
UV Resistance	The material from which CRSM is manufactured contains carbon black (≥ 2,5 %) to protect it from ultra-violet light	
Tensile Strength after Accelerated aging 7 days at 150°C ± 2°C (ASTM D2671)	IEC 60684-2/ASTM D412	≥ 12 MPa
Ultimate Elongation after Accelerated aging 7 days at 150°C ± 2°C (ASTM D2671)	IEC 60684-2/ASTM D412	≥ 300% min
Application Characteristics		
Operating Temperature Range	-	- 30°C up to + 85°C (-22°F up to 185°F)
Shrink Ratio	-	> 3:1
Longitudinal Shrinkage Free Recovered	-	- 10% max

ITEM	DESCRIPTION	MATERIAL
1	HEATSHRINK SLEEVE	CROSSLINKED POLYOLEFINE BASED
2	HOTMELT ADHESIVE	POLYAMIDE BASED
3	CLOSURE SYSTEM	STAINLESS STEEL
4	REMOVABLE PROTECTIVE FOIL	PE (Polyethylene)

CRSM - 34/10 - 1000

Product Family

Size

Length in mm

ORDERING INFORMATION - DIMENSIONS ARE IN MM (INCH)

Description	Application Range (R)		H	F	Thickness W
	min	max	Expanded min	Expanded min	Recovered min
CRSM 34/10	11 (0.43)	27 (1.06)	120 (4.72)	12 (0.47)	2 (0.08)
CRSM 53/13	17 (0.66)	43 (1.69)	165 (6.49)	25 (0.98)	2 (0.08)
CRSM 84/20	24 (0.94)	68 (2.67)	260 (10.23)	34 (1.33)	2 (0.08)
CRSM 107/29	32 (1.25)	86 (3.38)	340 (13.38)	34 (1.33)	2 (0.08)
CRSM 143/36	39 (1.53)	115 (4.52)	460 (18.11)	34 (1.33)	1.8 (0.07)
CRSM 198/55	60 (2.36)	160 (6.29)	700 (27.55)	34 (1.33)	1.8 (0.07)
CRSM 250/98	105 (4.13)	200 (7.87)	820 (32.28)	34 (1.33)	1.8 (0.07)

Learn more: [TE.com/energy](https://www.te.com/energy)

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