



HEAT-SHRINKABLE WRAPAROUND SLEEVE (CRSM) FOR CABLE REPAIR AND JOINT OUTER REJACKETING

KEY FEATURES

- Wraparound sleeve used for repair of damaged cable jackets and for re-jacketing of low voltage joints
- High mechanical strength and impact resistance
- Excellent electrical characteristics in order to achieve requirements for low voltage applications
- Halogen-free material content, non-corrosive and non-toxic smoke in event of fire
- Compliant to RoHS and REACH regulations
- UV Protection

TE Connectivity's (TE) Raychem CRSM wraparounds are a fast and permanent cable repair and sealing system. The repair sleeve is quickly fitted in place by means of its rail and channel closure. A moisture-proof, insulating and tight-fitting repair is then obtained in one step by heating, which makes the sleeve diameter shrink and the sealant coating melt and flow into interstices.

Because of its heat-shrinkability, each CRSM size will fit several different cable diameters. The sealant exhibits excellent bonding and sealing characteristics to all materials commonly used in the various cable and sheath constructions, such as plastic, rubber, lead and aluminium. CRSM wraparounds are made of an abrasion and corrosion resistant semi rigid material, and are a result of our extensive capability in materials technology.

CRSM Raychem heat-shrinkable medium-wall wraparounds are designed for insulation on low voltage cable accessories and applications, as well as for repair, sealing and protection on medium voltage cables. The material content is halogen-free and UV resistant.

Shelf-life restrictions usually associated with tapes or resins or cold-applied products do not apply and the completed installation may be taken into service at once. TE's Raychem wraparound CRSM is fast and easily installed and has proven its long term reliability in harsh environmental conditions.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.

Heat-Shrinkable Wraparound CRSM



Characteristics at a glance

- Cross-linked polyolefin, medium wall, not reinforced
- Inline-coated with hot melt adhesive
- Color black, shrinkage ratio > 3 : 1
- Resistant to chemical agents
- Stabilized against UV rays
- Halogen-free, non-corrosive, free of lead and aluminium
- High tensile strength and mechanical robustness
- Used for cable repair and re-jacketing of low voltage joints

Applications in

- Cable jacket insulation
- Protection against moisture
- Mechanical protection

TESTING

Physical Characteristic	Test Method	Material Requirements
Tensile Strength	ISO 37	15 MPa min
Ultimate Elongation	ISO 37	350% min
Density	ISO 1183 Method A	1,0-1,2 g/cm ³
Hardness	ISO 868	≥ 50 shore D
Accelerated ageing 7 days at 150°C ± 2°C		
Tensile Strength	ISO 37	12 MPa min
Ultimate Elongation	ISO 37	300% min
Low Temperature Flexibility	ASTM D 2671 Procedure C	No cracking at 4 hours at -40°C ± 3°C
Dielectric Strength	IEC 60243 part 1 and 2	≥ 10 kV/mm min.
Volume Resistivity	IEC 60093	1 x 10 ¹⁰ Ω cm min
Dielectric Constant	IEC 60250	5,0 max
Water Absorption	ISO 62 method 1	≤ 0,5 % max after 14 days at 23°C ± 2°C
Corrosion	ASTM D2671 Part A	No corrosion after 16h at 150°C
Weathering	The material from which MWTM is manufactured contains carbon black (≥ 2,5 %) to protect it from ultra-violet light	
Application characteristics		
Operating temperature range	- 30°C up to + 100°C	
Installation/ shrinking temp	> 120°C	
Low temperatures flexibility	down to - 30°C	
Shrink ratio	> 3 : 1	
Longitudinal shrinkage free recovered	≤ - 10 %	

PRODUCT SELECTION INFORMATION

Description	Application Range (mm)			Diameter (mm)		Width (mm)	
	min	max*	max**	Expanded min	Recovered max	Expanded nom	Recoverd min
CRSM 34/10	11	27	21	35	9	0,3	2,4
CRSM 53/13	17	43	32	54	15	0,3	2
CRSM 84/20	24	68	50	86	21	0,3	2
CRSM 107/29	31	86	65	108	27	0,3	2
CRSM 143/36	33	115	86	144	28	0,3	1,8
CRSM 198/55	56	160	120	203	50	0,3	2,1
CRSM 250/98	103	200	150	257	91	0,4	1,7

*Maximum application diameter for cable jacket repair and joint re-jacketing

**Maximum application, in cases where HV overshooth integrity testing DC 5 kV/5 min is required.

All sizes are available in the standard lengths 1000 mm, 250, 500, 750, 1200, 1500 mm. All lengths subject to standard cutting tolerances.

TE's Raychem wraparound CRSM are available coated with an inner sealant wall.

ORDERING INFORMATION

CRSM wraparound - coated with hot melt adhesive /239

CRSM-34/10-1000/239(S5)

CRSM-53/13-1000/239(S5)

CRSM-84/20-1000/239(S5)

CRSM-107/29-1000/239(S5)

CRSM-143/36-1000/239(S1)

CRSM-198/55-1000/239(S1)

CRSM-250/98-1000/239(S1)

Other standard lengths 250, 500, 750, 1200, 1500 mm available. Contact your local TE sales representative.

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