

Raychem CRSM Heat-shrinkable Halogen-free Wraparound System for Plastic or Metal Sheathed Cable Repair



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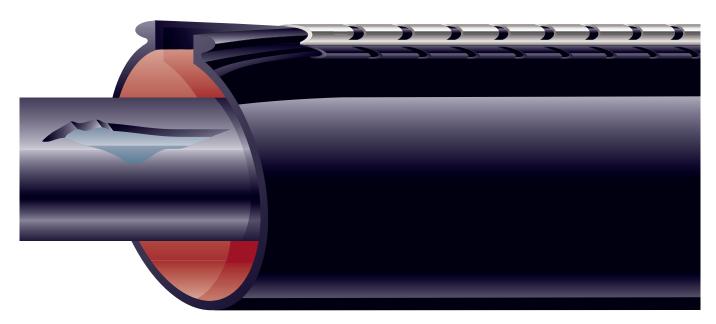
CRSM wraparounds are a fast and permanent cable repair and sealing system. The repair sleeve is quickly fitted in place by means of its rail and channel closure. A moisture-proof, insulating and tight-fitting repair is then obtained in one step by heating, which makes the sleeve diameter shrink and the 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 one result of our extensive capability in materials technology.

As the world's leading maker of heat-shrinkable materials, we offer a wide range of tubing and moulded parts for any application where a tight, insulating or fluid resistant cover is required over uniform or irregularly shaped objects. These products are available in a wide range of formulations to meet the demands of the growing world of energy.



CRSM wraparounds are used in a railway goods yard in Germany to restore the insulating, sealing and mechanical protection functions of damaged cable oversheaths.



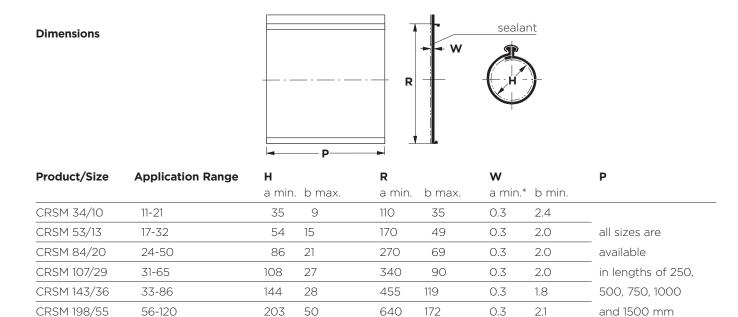


Labour-saving installation. Fitting and sealing all in one step. Abrasion and corrosion resistant. Each size covers a range of cable sizes. Raychem's distinctive closure system, which incorporates a stainless steel channel slid over rails on the sleeve, keeps the wraparound in place during installation but can be easily removed when the adhesive has set.

Material Properties		Test Method	Requirement	
Tensile Strength		ISO 37		17 MPa min.
Ultimate Elongation		ISO 37		350% min.
Density		ISO 1183	Method A	1.0 – 1.2 g/cm ³
Hardness		ISO 868		50 - 70 D
Accelerated Ageing	7 days at 150°C ±2°C	ISO 188		
	Tensile Strength	ISO 37		14 MPa min.
	Ultimate Elongation	ISO 37		300% min.
Thermal Endurance		IEC 60216		120°C
Low Temperature Flexibility	4 hours at -40°C ±3°C	ASTM D2671	Procedure C	No cracking
Dielectric Strength		IEC 60243		1 mm 180 kV/cm min. 3.5 mm 120 kV/cm min.
Volume Resistivity		IEC 60093		$1 \times 10^{12} \Omega$ cm min.
Dielectric Constant		IEC 60250		5 max.
Water Absorption	14 days at 23°C ±2°C	ISO 62	Method 1	0.5% max.
Resistance to Liquids	7 days in transformer oil at 23°C ±2°C (VDE 0370)	ISO 1817		
	Tensile Strength	ISO 37		14 MPa min.
	Ultimate Elongation	ISO 37		300% min.
Resistance to Fungi		ASTM G21		Pass Rating 1
Weathering	The material from which CRSM is manufactured, contains carbon black to protect it from ultra-violet radiation, and is halogen-free.			
Additional Properties	Sealant characteristics are detailed in Raychem specification PPS 3012/70. Further details are given in Raychem specification PPS 3010/9.			



CRSM Ordering Information



810

Part number

CRSM 53-13-1500/239

314

Notes:

CRSM 250/98

Ordering example

installation instructions.

1. Dimensions in millimetres

a = as supplied

Product Type

Standard Length -239 = sealant -----

Size .

91

257

b = after free recovery

* = at minimum supplied width

2. Max. longitudinal change after free recovery: – 0 - +10%

1.7

0.4

Raychem CRSM wraparounds are	
supplied complete with detailed	

103-150

For further details on this product or any other Raychem products please contact your local sales representative.

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TE Energy – innovative and economical solutions for the electrical power industry: cable accessories, connectors & fittings, insulators & insulation, surge arresters, switching equipment, lighting controls, power measurement and control.

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