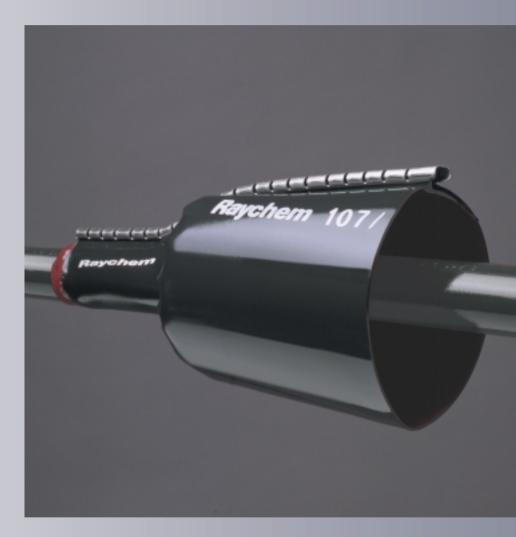


Energy Division

CRSM Heat-shrinkable wraparound system for plastic or metal sheathed cable repair



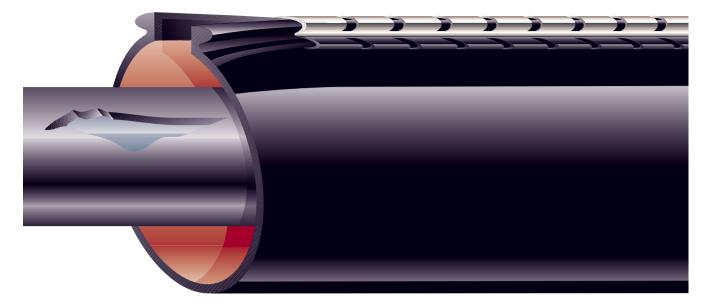


Heat-shrinkable wraparound system for plastic or metal sheathed cable repair

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 adhesive coating melt and flow into interstices. Because of its heat-shrinkability, each CRSM size will fit several different cable diameters. The adhesive 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 heatshrinkable materials, we offer a wide range of tubings 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.



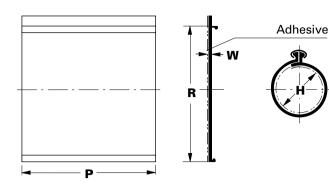
CRSM wraparounds are used in a railway goods yard in Germany to restore the insulating, sealing and mechanical protection functions of damaged cable oversheaths.



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
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 –30°C ± 3°C	ASTM D2671	Procedure C	No cracking
Electric Strength		IEC 60243		1 mm 180 kV/cm min. 3.5 mm 120 kV/cm min.
Volume Resistivity		IEC 60093		1 x 10 ¹² Ω 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.			
Additional Properties	Adhesive characteristics are detailed in Raychem specification PPS 3012/70. Further details are given in Raychem specification PPS 3010/9.			

Dimensions



Product/Size	Application Range	н		R		w		Р
		a min	. b max.	a mir	n. b max.	a min	.* b min.	
CRSM 34/10	11- 21	35	9	110	35	0.3	2.4	
CRSM 53/13	17- 32	54	15	170	49	0.3	2.0	all sizes are
CRSM 84/20	24- 50	86	21	270	69	0.3	2.0	available
CRSM 107/29	31- 65	108	27	340	90	0.3	2.0	in lengths of 250,
CRSM 143/36	33- 86	144	28	455	119	0.3	1.8	500, 750, 1000
CRSM 198/55	56-120	203	50	640	172	0.3	2.1	and 1500 mm
CRSM 250/98	103-150	257	91	810	314	0.4	1.7	

Notes:

1. Dimensions in millimetres

a = as supplied

b = after free recovery

* = at minimum supplied width

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

Part Number CRSM 53-13-1500/239

Ordering Example

	ProductType Size Standard Length 239 = Adhesive			
Raychem CRSM wraparounds are supplied complete with detailed installation instructions.	For further details on this product or any other Raychem products please contact your local sales			

representative.

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct and reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance of any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for these products is set forth in our standard terms and conditions of sale.

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	M B&H Bowthorpe E	
Dulmison III Hells		Raychem SIMEL
Argentina	Canada	Thailand
Phone: ++54-11-4733 2277	Phone: ++1-905-475 6222	Phone: ++66-2-7394026 - 32
Fax: ++54-11-4733 2267	Fax: ++1-905-470-4453	Fax: ++66-2-3260563 - 64
Australia	France	United States of America
Phone: ++61-2-4390 1111	Phone: ++33-3-80583200	Phone: ++1-800-327-6996
Fax: ++61-2-4353 2497	Fax: ++33-3-80341015	Fax: ++1-800-527-8350
Brazil	Mexico	United Kingdom
Phone: ++55-11-3611 1862	Phone: ++52-5-729 0405	Phone: ++44-1772-325400
Fax: ++55-11-3611 2457	Fax: ++52-5-361-8545	Fax: ++44-1772-726276
Type Electronics Baycha	m GmbH	

Tyco Electronics Raychem GmbH Energy Division Haidgraben 6, 85521 Ottobrunn/Munich, Germany http://energy.tycoelectronics.com Phone: ++49-89-6089-0, Fax: ++49-89-6096345