

Heat-shrinkable Cable Caps for the Electrical Power Industry

Wherever power cables are transported or installed, electrical engineers must contend with the risk of moisture and contamination. The methods they use to reduce these risks are often as long-established as cable technology itself.

But even the most tried and tested engineering practices can be suddenly rendered obsolete by new technological advances. One such example is Raychem Cable Caps, a technique based on heat-shrinkable materials which has brought unprecedented simplicity and reliability to the problem of protecting and sealing cable ends.

Raychem Cable Caps shrink when heated to tightly fit a range of cable sizes and constructions. At the same time a special adhesive also melts and flows under the shrinking action, gripping the cable and ensuring a high-integrity moisture seal.

Cable Caps, however, are far more than an exceptionally effective sealing system. Our advances in materials science ensure that these crosslinked polymer products also provide high-quality electrical insulation while at the same time resisting abrasion, weathering, and chemical attack.

Backed up, like all Raychem products, with comprehensive customer support and specialist technical service, millions of Raychem Cable Caps are in use throughout the world, helping to set ever higher standards of efficiency, economy and reliability in the field of power engineering.



The Energy Division of Tyco Electronics is one of the world's leading producers of heat-shrinkable materials and one of the largest cable accessory makers. Raychem components can be installed over variously-shaped objects to make a tight, rugged and fluid-resistant cover with excellent electrical performance.

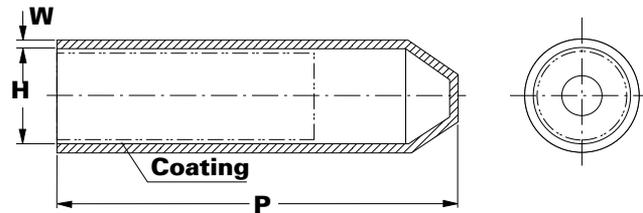
Available in a wide range of materials, Raychem cable accessory kits, tubings and mouldings are developed to meet the exacting demands of the growing world of energy.

Cable Caps

Properties and Ordering Information

Material Properties		Test Method	Requirement
Tensile Strength		ISO 37	12 MPa
Ultimate Elongation		ISO 37	200%
Specific Gravity		ISO 1183 Method A	0.9-1.2 g/cm ³
Hardness		ISO 868	50-70 D
Accelerated Ageing	7 days at 150°C ±2°C	ISO 188	
Low Temperature Flexibility	Tensile Strength	ISO 37	12 MPa
	Ultimate Elongation	ISO 37	200%
Water Absorption	4 hours at -40°C	ASTM D2671 Procedure C	No cracking
Weathering	The material from which Cable Caps are made contains carbon black to protect it from ultra-violet radiation.		
Additional Properties	Further details are given in Raychem specification PPS 3011/6 and PPS 3011/25. Adhesive characteristics are detailed in PPS 3012/70.		

Ordering Information



Product/Size	Embossed (Number)	H a min	b max	P b +15/-10%	W b ± 20%
102L011/S	1	10	4	38	2.0
102L022/S	2	20	7.5	55	2.8
102L027/S	none	29	13	93	2.5
102L033/S	3	35	15	90	3.2
102L044/S	4	55	25	143	3.9
102L048/S	none	75	32	150	3.3
102L050/S	none	93	38	142	4.4
102L055/S	5	100	45	162	3.8
102L066/S	6	120	70	145	3.8

Notes	1. Dimensions in millimeters a = as supplied b = after free recovery	2. Drawing depicts typical part.
-------	--	----------------------------------

Material and Coatings

Material

Cable Caps are made from materials specially formulated for sealing applications for all commonly used cables and cable sheath materials. Please consult your local sales engineer about other applications and Cable Caps made from other materials.

Coatings

The adhesive can be used on plastic, rubber and paper insulated cables.

Raychem Cable Caps are supplied with installation instructions.

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.

ALR, AMP, AXICOM, B&H, Bowthorpe EMP, Critchley, Dorman Smith, Dulmison, Hellstern, La Prairie, Morlynn, Raychem, SIMEL and SUCOFIT are trademarks.

tyco

Electronics

Energy Division



Argentina

Phone: ++54-11-4733 2277
Fax: ++54-11-4733 2267

Australia

Phone: ++61-2-4390 1111
Fax: ++61-2-4353 2497

Brazil

Phone: ++55-11-3611 1862
Fax: ++55-11-3611 2457

Canada

Phone: ++1-905-475 6222
Fax: ++1-905-470-4453

France

Phone: ++33-3-80583200
Fax: ++33-3-80341015

Mexico

Phone: ++52-5-729 0405
Fax: ++52-5-361-8545

Thailand

Phone: ++66-2-7394026 - 32
Fax: ++66-2-3260563 - 64

United States of America

Phone: ++1-800-327-6996
Fax: ++1-800-527-8350

United Kingdom

Phone: ++44-1772-325400
Fax: ++44-1772-726276

**Tyco Electronics Raychem GmbH
Energy Division**

Haidgraben 6, 85521 Ottobrunn/Munich, Germany

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

<http://energy.tycoelectronics.com>