

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.

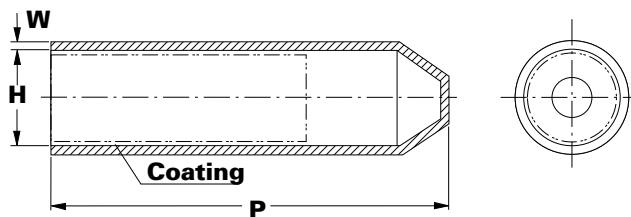


The Energy Division of Tyco Electronics is one of the world's leading producers of heat-shrinkable materials and one of the largest cable accessory makers. Raychem components can be installed over variously-shaped objects to make a tight, rugged and fluid-resistant cover with excellent electrical performance.

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.

Material Properties		Test Method	Requirement
Tensile Strength		ISO 37	12 MPa min.
Ultimate Elongation		ISO 37	200% min.
Density		ISO 1183/3 Method A	0.9-1.2 g/cm ³
Hardness		ISO 868	50-70 Shore D
Accelerated Ageing	7 days at 150°C ±2°C	ISO 188	
	Tensile Strength	ISO 37	12 MPa min.
	Ultimate Elongation	ISO 37	200% min.
Low Temperature Flexibility	4 hours at -40°C ±3°C	ASTM D2671 Procedure C	No cracking
Water Absorption		ISO 62 Method 1	0.5% max. at 23°C ± 2°C after 24 hours
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

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

Material and Coating

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.

Coating
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, CROMPTON INSTRUMENTS, DORMAN SMITH, DULMISON, GURO, HELLSTERN, LA PRAIRIE, MORLYNN, RAYCHEM, and SIMEL are trademarks.



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