



Raychem Heat-shrinkable Halogen-free 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 sealant 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 halogen-free 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.

TE Energy is one of the world's leading producers of heat-shrinkable materials and one of the largest cable accessories 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 accessories kits, tubings and mouldings are developed to meet the exacting demands of the growing world of energy.

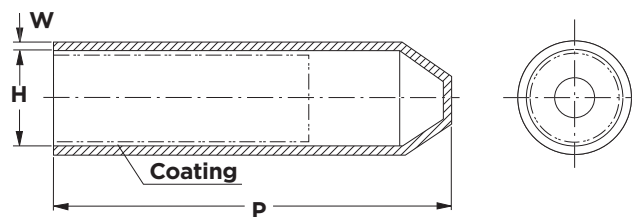
Raychem
from TE Connectivity

Cable Caps Properties and Ordering Information

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 Tensile Strength Ultimate Elongation	ISO 188 ISO 37 ISO 37
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. Sealant characteristics are detailed in PPS 3012/70.	

* based on ultimate elongation

Ordering Information



Notes:

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

Product/Size	H a min	b max	P b +15/-10%	W b ± 20%
102L011/S	10	4	38	2.0
102L022/S	20	7.5	55	2.8
102L033/S	35	15	90	3.2
102L044/S	55	25	143	3.9
102L048/S	75	32	150	3.3
102L055/S	100	45	162	3.8
102L066/S	120	70	145	3.8

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

Raychem Cable Caps are supplied with installation instructions.

While TE Connectivity (TE) has made every reasonable effort to ensure the accuracy of the information in this catalog, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications. Raychem, TE Connectivity and TE Connectivity (logo) are trademarks. Other logos, product and company names mentioned herein may be trademarks of their respective owners.

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

Tyco Electronics Raychem GmbH
a TE Connectivity Ltd. Company
TE Energy
Finsinger Feld 1
85521 Ottobrunn/Munich, Germany

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

energy.te.com

