

- Excellent abrasion resistance
- Good strain relief performance
- Outstanding physical and electrical performance
- Excellent chemical and solvent resistance

CRN

A semi-rigid, flame-retarded polyolefin heat-shrinkable tubing

CRN semi-rigid, flame retarded, polyolefin based heat-shrinkable tubing displays excellent resistance to a wide range of chemicals and solvents combined with

excellent electrical properties. The tubing is tough and semi-rigid which makes it ideally suitable for applications requiring strain relief or abrasion resistance. Widely

used throughout industry for component protection and strain relief of sensitive areas such as solder and crimp joints.

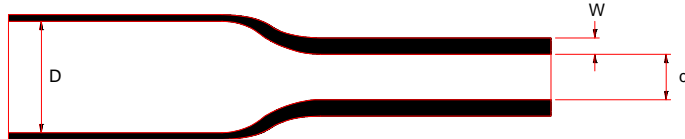
Temperature rating

Operating temperature range:	-55°C to +135°C
Minimum shrink temperature:	+110°C
Minimum full recovery temperature:	+135°C

Approvals

UL 224 125°C File E35586	BS 4G-198 Part 3 type 11C
Def Stan 59-97 Issue 3 Type 2C (not red)	
MIL-DTL-23053/6 Class 1 (colour) and 2 (clear)	CSA LR31929 (black only)

Ordering information



Inside diameter		Wall thickness		Standard package* Pack size differ on colour options.	
D (min) Expanded as supplied	d (max) Recovered after heating	W (nom) Recovered after heating	1.2 m Length quantity	Ordering description	
mm	mm	mm	m		
1.2	0.6	0.51	30	CRN- ³ / ₆₄ -colour code	
1.6	0.8	0.51	30	CRN- ¹ / ₁₆ -colour code	
2.4	1.2	0.51	30	CRN- ³ / ₃₂ -colour code	
3.2	1.6	0.51	30	CRN- ¹ / ₈ -colour code	
4.8	2.4	0.64	30	CRN- ³ / ₁₆ -colour code	
6.4	3.2	0.64	12	CRN- ¹ / ₄ -colour code	
9.5	4.8	0.76	12	CRN- ³ / ₈ -colour code	
12.7	6.4	0.76	12	CRN- ¹ / ₂ -colour code	
19.1	9.5	0.89	30	CRN- ³ / ₄ -colour code	

Other lengths, colours and sizes are available subject to special order.

Standard colours

Colour	Black
Code	0

CRN

Performance

Test	Test method	Test requirement
Heat ageing:	ISO188 (168 h at 175°C)	Ultimate elongation: 150% (min)
Corrosion resistance:	ASTM D2671 (16h at 175°C)	No corrosion of mirrors
Dielectric strength:	IEC 243	20 MV/m
*Flame retardancy:	ASTM D2671 (Procedure B)	Duration of burning 60s max.
Fluid resistance:	24 h at 23°C, ISO 37	Tensile strength: 12 MPa (min) Ultimate elongation: 200% (min)
	Test fluids:	Aircraft & Fuel to ISO1817 test liquid B Phosphate Ester ISO1817 test liquid 103 Lubricating oil ISO1817 test liquid 101

*Not clear product (X).

For full product performance details consult Raychem Specification RK 6003.

Specifications

Raychem Specification RK 6003.

Material Safety Data Sheet available on request.

Installation instructions available on request.

Raychem and CRN are trademarks of Raychem Interconnect, a division of Tyco Electronics Corporation.

Raychem Interconnect
Cheney Manor Industrial Estate
Swindon, Wiltshire SN2 2QE
Tel: (44)-1793-528171
Fax: (44)-1793-616652

All of the above information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their application. Tyco Electronics makes no warranties as to the accuracy or completeness of the information and disclaims any liability regarding its use. Tyco Electronics only obligations are those in the Standard Terms and Conditions of Sale for this product and in no case will Tyco Electronics be liable for any incidental, indirect or consequential damages arising from the sale, resale, use or misuse of the product. Tyco Electronics Specifications are subject to change without notice. In addition Tyco Electronics reserves the right to make changes in materials or processing, without notification to the Buyer, which do not affect compliance with any applicable specification.

RI0050.1299