

- Print performance to military requirements
- Resistance to organic fluids, common fuels, lubricants and solvents
- Flame retarded
- Standard size range covers wire diameters from 1.2 mm to 16 mm

DTMS

Fluid resistant marker sleeves

Raychem DTMS sleeves are recommended for use in applications where exposure to organic fluids, especially oils, is required for long periods at elevated temperatures. The material is similar to Raychem DR-25 heat-shrinkable tubing and completes the System 25 capability. In addition to identification, DTMS sleeves provide strain relief,

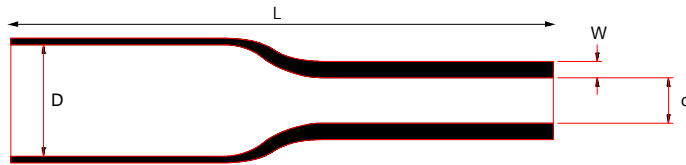
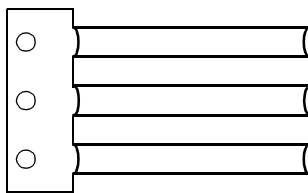
insulation and protection from mechanical abuse. Manufactured from specially formulated, radiation crosslinked elastomeric material DTMS sleeves are flame retarded and have an operating temperature range of -75°C to +135°C. DTMS sleeves are ready for printing and are supplied in bandolier form on a comb for ease of handling.

After printing, the sleeves should be passed through the Permatizer to make the marking permanent. Printed sleeves are easily removed from the bandolier and slipped onto the wire, the flat shape of the sleeve ensuring that it remains in position. On the application of heat, using a Raychem heating device, the installed sleeves shrink to 50% of their supplied diameter.

Temperature rating

Operating temperature range:	-75°C to +135°C
Minimum recovery temperature:	+120°C

Ordering information



Inside diameter		Wall thickness		Sleeve length	
D (min) Expanded as supplied	d (max) Recovered after heating	W (nom) Recovered after heating	L (nom) As supplied	Pieces per spool	Ordering description
mm	mm	mm	mm		
2.4	1.2	0.58	48	5000	DTMS-2.4-4
3.2	1.6	0.58	48	5000	DTMS-3.2-4
4.8	2.4	0.64	48	2500	DTMS-4.8-4
6.4	3.2	0.64	48	2500	DTMS-6.4-4
9.5	4.8	0.64	47	1500	DTMS-9.5-4
12.0	6.4	0.64	42	1000	DTMS-12.0-4
18.0	9.5	0.84	42	500	DTMS-18-4
38.0	16.5	1.15	42	100	DTMS-38-4

Options

Prescoring	Perforated score to produce multiple marker sleeves from each DTMS sleeve					
	Number of prescores	1	2	3	4	9
	Code	NR11	NR12	NR13	NR14	NR19

Ordering description example: DTMS-4.8-NR12-4

Standard colours

Colour	Yellow
Code	4

DTMS

Approvals

MIL-M-81531

Performance

		Performance	Test method		
Marking	Adherence of mark	Marking clearly visible	MIL-M-81531		
	Permanency of mark	No smearing of mark	RK 6065 Clause 6.5		
Physical	Pull off force	14 N	RK 6065 Clause 6.2		
	Tensile strength	31 MPa	ISO 37		
	Ultimate elongation	590%	ISO 37		
	Specific gravity	1.32	ISO/R1183		
	Heat ageing	480% elongation after 168 h at +150°C	ISO 188		
	Heat shock	No dripping, flowing or cracking after 4 h at +215°C	ASTM D2671		
	Low temperature flexibility	No cracking during mandrel bend after 4 h at -75°C	ASTM D2671		
	Flame retardancy	Duration of burning up to 60 s	ASTM D2671		
Electrical	Dielectric Strength	40 MV/m	IEC 243		
Chemical	Copper corrosion	Non-corrosive	ASTM D2671		
	Water absorption	0.6%	ISO/R62		
	Fungus resistance	No change in mechanical performance after 56 days exposure to fungus	ISO/R846 ISO 37		
Fluid resistance	Diesel fuel F-54	Tensile strength	21 MPa	ISO 1817 and ISO 37 after immersion in fluid for 72 h at 100°C.	
		Ultimate elongation	530%		
	Engine oil	Tensile strength	29 MPa		
		Ultimate elongation	580%		
	Shell Talena	Ultimate elongation	580%		
	Transformer oil	Tensile strength	25 MPa		Print shall remain legible when tested to MIL-M-81531.
	BS 148-1972	Ultimate elongation	580%		
Hydraulic fluid	Tensile strength	12 MPa			
DTD 900/4881C	Ultimate elongation	300%			

For full product performance details consult Raychem Specification RK 6065/5.

Specifications

Raychem Specification RK 6065/5.

Raychem and DTMS 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.

RI0069.1299