tyco Electronics

Raychem Interconnect

- Operating temperature range -75°C to +150°C
- Flame retarded
- System-25 tubing
- Shrink ratio 2:1

DR-25

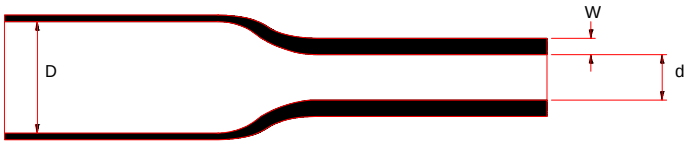
Heat-shrinkable, flexible, chemical and abrasion resistant tubing

Raychem DR-25 heat-shrinkable tubing is flexible and abrasion resistant. One of an extensive range of Raychem heat-shrinkable products, it is made from a radiation cross-linked elastomeric material specially formulated for optimum high temperature fluid resistance, and long term heat resistance.
The operating temperature of DR-25 tubing is from -75°C to +150°C for long periods. Shrinking to 50% of its supplied diameter when heated, 10 standard sizes of DR-25 tubing will cover the diameter range from 1.6 mm to 70 mm.
The product is printed with the product description and size.
DR-25 tubing is suitable as a jacketing material for military vehicle cables and harnesses. When used in conjunction with System-25 heat-shrinkable moulded shapes and S1125 high performance adhesive, these products provide a complete cable harness system capability.

Temperature rating

Operating temperature range:	-75°C to +150°C
Minimum full recovery temperature:	+175°C

Ordering information



Inside diameter		Wall thickness	Standard package		
D (min) Expanded as supplied	d (max) Recovered after heating	W (nom) Recovered after heating	Spool quantity	Weight	
mm	mm	mm	m	g/m	Ordering description
3.2	1.6	0.76	50	7	DR-25-$^{1}/_{8}$-0
4.8	2.4	0.84	50	12	DR-25-$^{3}/_{16}$-0
6.4	3.2	0.89	50	15	DR-25-$^{1}/_{4}$-0
9.5	4.8	1.02	50	25	DR-25-$^{3}/_{8}$-0
12.7	6.4	1.22	30	39	DR-25-$^{1}/_{2}$-0
19.0	9.5	1.45	30	68	DR-25-$^{3}/_{4}$-0
25.4	12.7	1.78	30	111	DR-25-1-0
38.0	19.0	2.41	15	223	DR-25-1$^{1}/_{2}$-0
51.0	25.4	2.79	22	341	DR-25- 2-0
76.0	38.0	3.18	15	571	DR-25- 3-0

The largest size which will recover snugly over the component to be covered should be ordered.

The wall thickness of the tubing will be less than specified if recovery is restricted during shrinkage.

Other lengths and sizes are available subject to special order.

Standard colours

Colour	Black
Code	0

DR-25

Approvals

MIL-DTL-23053/16 except $^{1}/_{8}$ and $^{3}/_{16}$
VG95343 Part 5 Type D
VDE 0341/Pt 9005
Def Stan 59-97 Issue 3 Type 6B
BS 4G-198 Part 3 10A

Performance

Test	Test method	Test requirement	
Heat ageing:	ISO188 (168 h at 160°C)	Tensile strength: Ultimate elongation:	8 MPa (min) 200% (min)
Flexibility (2% secant):	ASTM D882	50 MPa (max)	
Dielectric strength:	IEC 243	8 MV/m (min)	
Flammability:	ASTM D2671 (Procedure A)	Size $^{1}/_{2}$:	15 s (max)
Fluid resistance:	24 h at various temperatures ISO37	Tensile strength: Ultimate elongation:	10 MPa (min) 300% (min)
		Diesel fuel at 70°C Hydraulic (H515) at 70°C Lubricating oil (0.156) at 100°C	

For full product performance details consult Raychem Specification RK 6008/1.

Specifications

Raychem Specification RK 6008/1.
Material Safety Data Sheet available on request.
Installation instructions available on request.

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