

DERAY®-V25 / V25 TW

Crosslinked elastomer

Flexible, thin wall, diesel resistant, elastomeric heat shrink tubing, especially suited for mechanical, thermal and chemical protection of sensitive components.



Features and Benefits

- Flame retardant
- Flexible
- High abrasion and cut resistance
- Resistant to diesel, hydraulic fluids and chemicals
- Shrink ratio: 2:1
- Continuous operating temperature: -75°C to 150°C
- Shrink temperature: 150°C min.

Standards

- DEF STAN 59-97 Type 6b, BS G198 Part 3 Type 10A
- VG 95343 Part 5 Type D
- QPL SAE AS23053/16 (only DERAY®-V 25)
- PAN 6480K
- GS 95008-3-3
- CNES approved and listed in Matrex database

Typical Applications

- Developed for rugged demands with view to high fuel, chemical and insulation requirements
- Suitable to use in rough environments where an optimum high-temperature fluid resistance, and long term heat resistance is required
- Military, aerospace and automotive cables and harnessing
- Insulation of wind-generator bus bars

2:1

Shrink ratio

-75°C - 150°C

(-103°F to 302°F)

Continuous operating temperature

Markets:

Automotive, Industrial, Aerospace, Defense, Mass Transit, Utility, Renewables/Wind

Standards:



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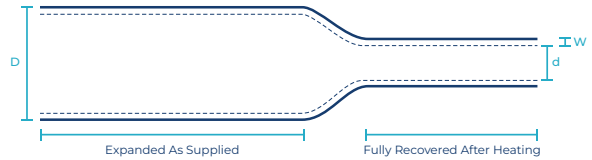
ORDER NUMBER	EXPANDED		RECOVERED		DELIVERY UNITS
	INTERNAL DIAMETER (MIN) D	INTERNAL DIAMETER (MAX) D	TOTAL WALL THICKNESS (NOM) W	TOTAL WALL THICKNESS (NOM) W	SPOOL
			V 25	V 25 TW	
	mm (in)	mm (in)	mm (in)	mm (in)	m (ft)
0094	2.4 (3/32)	1.2 (0.047)	-	0.55 (0.022)	50 (164)
0125	3.2 (1/8)	1.6 (0.063)	0.80 (0.031)	0.55 (0.022)	50 (164)
0187	4.8 (3/16)	2.4 (0.094)	0.90 (0.035)	0.55 (0.022)	50 (164)
0250	6.4 (1/4)	3.2 (0.126)	1.00 (0.039)	0.65 (0.026)	50 (164)
0375	9.5 (3/8)	4.8 (0.189)	1.10 (0.043)	0.65 (0.026)	50 (164)
0500	12.7 (1/2)	6.4 (0.252)	1.30 (0.051)	0.65 (0.026)	30 (98)
0750	19.0 (3/4)	9.5 (0.374)	1.50 (0.059)	0.85 (0.037)	30 (98)
1000	25.4 (1)	12.7 (0.500)	1.90 (0.075)	0.95 (0.037)	30 (98)
1250	31.8 (1 1/4)	15.9 (0.626)	-	1.05 (0.041)	30 (98)
1500	38.0 (1 1/2)	19.0 (0.748)	2.30 (0.091)	1.05 (0.041)	15 (49)
2000	51.0 (2)	25.4 (1.000)	2.70 (0.106)	-	-
3000	76.0 (3)	38.0 (1.496)	3.00 (0.118)	-	-
4000	102.0 (4)	50.8 (2.000)	3.50 (0.138)	-	15 (49)

Ordering

Select a dimension which will shrink snugly over the application to be covered. If recovery is restricted the resultant wall thickness will be less than specified.

- Select options:
 - Color: Black (BK)
 - Approval: Standard, VG or QPL (only DERAY®-V 25)
- Please specify the product name, order number and options you require:
 - Example: DERAY®-V 25, 0750 or 3/4 in, black, VG

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.



We advise that customers should separately evaluate the suitability of our products for their particular application. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. Please ask for the latest version of this data sheet. Subject to modification without prior notice.

For further information, please contact:

Americas: 800 422 6872
Canada: 800 845 6808

Asia Pacific: +86 512 82280099
Europe: +49 2226 9047 355

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Technical data

PROPERTY	CURRENT VALUES	TEST METHODS
MATERIAL		
Material	Elastomer, modified; free of lead and cadmium	n/a
Surface	smooth, matt	n/a
Specific gravity	1.5 g/cm ³ max.	ASTM-D 792, A-1
Shrink ratio	2:1	n/a
Longitudinal shrinkage	-10% max.	ASTM-D 2671
MECHANICAL		
Tensile strength	20 MPa	IEC 60684-2
Elongation	520%	IEC 60684-2
Secant modulus	30 MPa max.	ASTM-D 882
THERMAL		
Tensile strength after thermal ageing (168 h at 160°C)	13 MPa	IEC 60684-2
Elongation after thermal ageing (168 h at 160°C)	220%	IEC 60684-2
Tensile strength after thermal shock (4 h at 200°C)	12 MPa	IEC 811-1-2
Elongation after thermal shock (4 h at 200°C)	300%	IEC 811-1-2
Cold bend test	does not break at -75°C	ASTM-D 2671 Meth. C
Combustion behaviour	selfextinguishing	UL 224
Shrink temperature	150°C min.	n/a
Storage temperature	50°C max.	n/a
Continuous operating temperature	-75°C to 150°C	IEC 216
CHEMICAL		
Corrosive action	non-corrosive	ASTM-D 2671 Meth. A
Compatibility with copper	non-corrosive	ASTM-D 2671 Meth. B
Resistance against chemicals	good	n/a
Water absorption	1.10%	VDE 0473
ELECTRICAL		
Dielectric strength	22 kV/mm	VDE 0303 Part 2
Spec. volume resistivity	10 ¹² Ω x cm	VDE 0303 Part 3

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