

DERAY® V25

INSULATE
SEAL
PROTECT

2:1
SHRINK RATIO



FLUID RESISTANT FLEXIBLE ELASTOMERIC TUBING

DIESEL RESISTANT ELASTOMERIC HEAT SHRINK TUBING SUITED FOR PROTECTING CABLES AND WIRE HARNESSES IN TRANSPORTATION AND MILITARY APPLICATIONS WHERE RESISTANCE TO DIESEL, OIL, HYDRAULIC FLUIDS AND OTHER CHEMICALS IS CRITICAL

FEATURES AND BENEFITS

- 2:1 shrink ratio
- Long term resistance to diesel, hydraulic fluids and chemicals
- Extreme low temperature flexibility
- Flame retardant
- High abrasion and cut resistance
- Continuous operating temperature: -75°C to 150°C
- Shrink temperature: 130°C
- Standard colors: Black

STANDARDS

- SAE-AMS-DTL-23053/16

TYPICAL APPLICATIONS

- Protective covering for military cables and harnesses

ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Please specify the product name, order reference number and options you require.
Order Example:
DERAY® V25, 0125, black, unprinted 164 ft lengths



DIMENSIONS

Order Number	Expanded		Recovered				Lengths	
	Internal Diameter (min) D		Internal Diameter (max) d		Wall Thickness (nom) W			
	mm	in	mm	in	mm	in	m	ft
0125*	3.2	1/8	1.6	0.062	0.80	0.031	30	100
0187*	4.8	3/16	2.4	0.093	0.90	0.035	30	100
0250	6.4	1/4	3.2	0.125	1.00	0.039	15	50
0375	9.5	3/8	4.8	0.187	1.10	0.043	15	50
0500	12.7	1/2	6.4	0.250	1.30	0.051	10	33
0750	19.0	3/4	9.5	0.375	1.50	0.059	10	33
1000	25.4	1	12.7	0.500	1.90	0.075	6	20
1500	38.0	1½	19.0	0.750	2.50	0.098	6	20

* These sizes are not included in 23053/16 specification

TECHNICAL DATA

PROPERTY	TEST METHOD	REQUIREMENT	TYPICAL PERFORMANCE	UNITS
PHYSICAL				
Tensile Strength	ASTM D412	1,700 (11.7) minimum	2,905 (20.03)	psi (MPa)
Elongation	ASTM D412	250 minimum	413	percent
Longitudinal Change	ASTM D2671	+/- 10%	+/- 10%	
Tensile stress, at 100 percent elongation	ASTM D412	1,500 (10.4) maximum	1,812 (12.49)	psi (MPa)
Low Temperature Flexibility	4 hrs at -85 °F (-65 °C)	No cracks	No cracks	
Heat Shock	4 hrs at 392 °F (200 °C)	No cracks, flowing or dripping	No cracks, flowing or dripping	
Heat resistance:	168 hrs at 302 °F (150 °C)			
Tensile strength	ASTM D412	1,500 (10.3) minimum	2,288 (15.78)	psi (MPa)
Ultimate elongation	ASTM D412	200 minimum	265	percent
ELECTRICAL				
Dielectric Strength	ASTM D2671	300 (11.9) - up to 0.500 inch expanded ID 200 (7.9) ** - 0.500 inch expanded ID and above	914 (36)	volts/mil (Kv/mm)
Volume Resistivity	ASTM D876	1 x 10 ⁹ minimum	6.28 x 10 ¹¹	Ohm-cm
CHEMICAL				
Corrosion	16 hrs at 250 °F (121 °C)	No pitting or corrosion	No pitting or corrosion	
Water absorption, percent, maximum	24 hrs at 73 °F (23 °C)	2.0 maximum	1.88	percent
Flammability	ASTM D2671, Procedure B	Self extinguishing within one minute and no more than 25 percent of indicator flag burned or charred	Pass	
Fluid resistance: (Hydraulic fluid (petroleum base), JP-8, Diesel Lubricating oil, 5 percent NaCl, Deicing fluid)	24 hrs immersion at 75 °F (24 °C) in various fluids			
Tensile strength	ASTM D412	1,500 (10.4) minimum	1,812 (12.49)	psi (MPa)
Ultimate elongation	ASTM D412	200 minimum	316	percent
Dielectric strength	ASTM D2671	200 (7.9) minimum	737 (29)	volt/mil (Kv/mm)
Fungus resistance	ASTM G21 or ISO 846B	No growth or Tensile higher than 1500 psi and Elongation higher than 225% after exposure	Pass	

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