

DERAY[®] KY 175

INSULATE
SEAL
PROTECT

2:1
SHRINK RATIO



THIN WALL PVDF

TRANSPARENT, THIN WALL PVDF (POLYVINYLIDENE FLUORIDE) HEAT SHRINK TUBING IDEAL FOR ELECTRONIC, AUTOMOTIVE AND MILITARY APPLICATIONS REQUIRING PROTECTION AND SEE THROUGH INSPECTION IN AGGRESSIVE ENVIRONMENTS

FEATURES AND BENEFITS

- 2:1 shrink ratio
- Highly flame retardant
- High withstand to abrasion and cut-through
- Excellent chemical and solvent resistance
- Semi-rigid
- Continuous operating temperature: -55°C to 175°C
- Shrink temperature: 175°C
- Standard colors: Black & Clear

STANDARDS

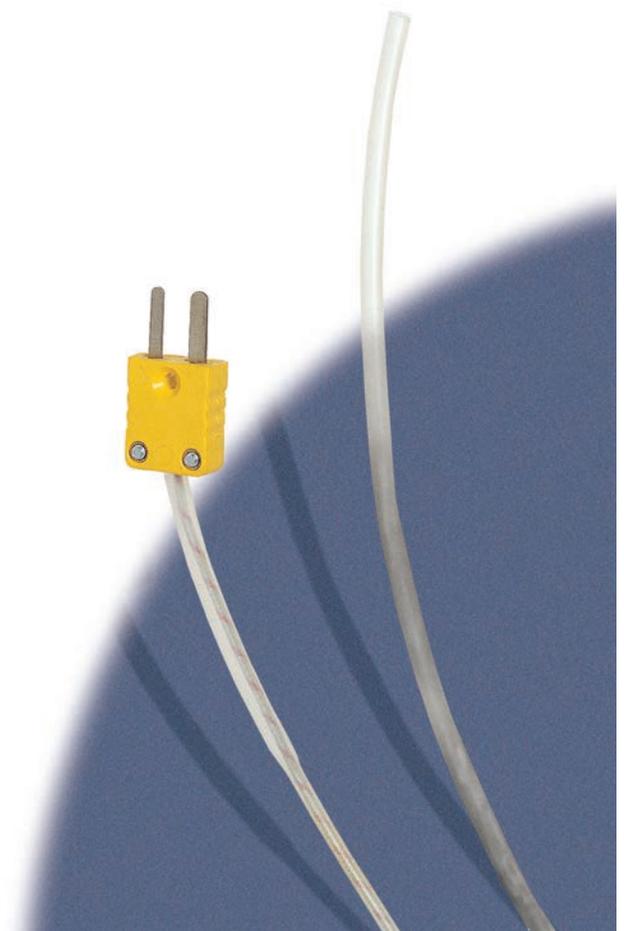
- UL 224 VW-1
- CSA C22.2 No. 198.1
- SAE- AMS- DTL- 23053/8
- DEF STAN 59-97 Issue 3 Type 3a
- AMS 3632

TYPICAL APPLICATIONS

- Strain relief and insulation of high temperature wires
- Protects against aggressive fluids and high temperatures

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 and order reference number. Order Example:
DERAY[®] KY 175, 0125, black, unprinted, 4 ft lengths



DIMENSIONS

Order Number	Expanded		Recovered				Lengths	
	Internal Diameter (min) D		Internal Diameter (max) d		Wall Thickness (nom) W		Cut	
	mm	in	mm	in	mm	in	m	in
0047	1.2	3/64	0.6	0.023	0.24	0.009	1.2	48
0062	1.6	1/16	0.8	0.031	0.24	0.009	1.2	48
0094	2.4	3/32	1.2	0.046	0.24	0.009	1.2	48
0125	3.2	1/8	1.6	0.062	0.24	0.009	1.2	48
0187	4.8	3/16	2.4	0.093	0.24	0.009	1.2	48
0250	6.4	1/4	3.2	0.125	0.30	0.012	1.2	48
0375	9.5	3/8	4.8	0.187	0.30	0.012	1.2	48
0500	12.7	1/2	6.4	0.250	0.30	0.012	1.2	48
0750	19.0	3/4	9.5	0.375	0.40	0.016	1.2	48
1000	25.4	1	12.7	0.500	0.50	0.020	1.2	48

TECHNICAL DATA

PROPERTY	TEST METHOD	REQUIREMENT		UNITS
PHYSICAL				
Tensile Strength	ASTM D638	5,000 (34.5) minimum	6,474 (44.64)	psi (MPa)
Elongation	ASTM D638	150 minimum	339	percent
Low Temperature Flexibility	4 hrs at -67 °F (-55 °C)	No cracks	No cracks	
Heat Shock	4 hrs at 572 °F (300 °C)	No cracks, flowing or dripping	No cracks, flowing or dripping	
Heat resistance:	168 hrs at 250 °F (121 °C)			
Ultimate elongation	ASTM D412	50 minimum	302	percent
ELECTRICAL				
Dielectric Strength	ASTM D2671	800 (31.5) - up to 0.500 inch expanded ID 600 (23.6) - 0.500 inch expanded ID and above	10.90 (43)	volt/mil (Kv/mm)
Volume Resistivity	ASTM D876	1 x 10 ¹³ minimum	16 x 10 ¹⁴	Ohm-cm
CHEMICAL				
Corrosion	16 hrs at 347 °F (175 °C)	No corrosion	No corrosion	
Water absorption	24 hrs at 73 °F (23 °C)	0.5 maximum	0.19	percent
Flammability	ASTM D2671, Procedure C	Self extinguishing 1 minute; 25% maximum flag burnt	Pass	
Fluid resistance: (Hydraulic fluid (petroleum base), JP-8, Lubricating oil, 5 percent NaCl, Deicing fluid)	24 hrs immersion at 75 °F (24 °C)			
Tensile strength	ASTM D412	5,000 (34.5) minimum	5,069 (34.95)	psi (MPa)
Dielectric strength	ASTM D2671	500 (19.7) minimum	1,270 (50)	volt/mil (Kv/mm)
Fungus resistance	ASTM G21	No growth or Tensile higher than 5000 psi and Elongation higher than 150% after exposure	Pass	

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