



A division of CSA Technical Solutions, LLC
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Heat Shrink Tubing DR-25 Diesel Resistant 2:1 Ratio

Raychem DR-25 diesel resistant heat shrink tubing is the most widely used heat shrink in aviation, racecar and other applications where highly corrosive fuels, fluids and oils are used. Its high resistance to aviation and diesel fuels, hydraulic fluids and lubrication oils makes it suitable for protecting military ground cables and harnesses from both these fluids, and abrasion. It reliably protects terminals, connectors, and other components from most industrial fuels and mechanical damage.

Features:

- Operating Temperature: -70° C to 150° C
- Shrink Temperature: 175° C
- Shrink Ratio: 2 to 1
- Longitudinal Shrinkage: up to 10%
- Highly resistant to diesel and other avionic fluids.

Specifications/Approvals:

Military: SAE-AMS-DTL 23053/16 (Formerly Mil-I-23053/16)

Crosses to: Sumitomo R-120, Raychem DR-25, Alpha FIT-601, 3M PSTH, Canusa DERAY V25, LG DRET

Dimensions

Part Number	Manufacturer Part	Mil Specification	Diameter	ID Before Shrink	ID After Shrink	Wall Thickness
HSDR25-0125	HSDR25-0125	AMS-DTL-23053/16-0125-0	1/8"	0.125"	0.062"	0.028"
HSDR25-0188	HSDR25-0188	AMS-DTL-23053/16-0188-0	3/16"	0.188"	0.093"	0.030"
HSDR25-025	HSDR25-025	AMS-DTL-23053/16-001-0	1/4"	0.250"	0.125"	0.035"
HSDR25-0375	HSDR25-0375	AMS-DTL-23053/16-002-0	3/8"	0.375"	0.187"	0.040"
HSDR25-050	HSDR25-050	AMS-DTL-23053/16-003-0	1/2"	0.500"	0.250"	0.048"
HSDR25-075	HSDR25-075	AMS-DTL-23053/16-004-0	3/4"	0.750"	0.375"	0.057"

HSDR25-100	HSDR25-100	AMS-DTL-23053/16-005-0	1"	1.000"	0.500"	0.070"
HSDR25-150	HSDR25-150	AMS-DTL-23053/16-006-0	1-1/2"	1.500"	0.750"	0.095"

Property	Test Method	Values
Tensile Strength	ISO 37	14 MPa (min)
Ultimate Elongation	ISO 37	350%
Heat Shock	ASTM D2671 (4hrs at 200 °C)	No Dripping, Cracking or Flowing
Heat Aging	ISO 188 (168hrs at 150 °C)	Pass
Heat Aging (Tensile Strength)	ISO 37	10 MPa (min)
Heat Aging (Ultimate Elongation)		200% (min)
Low Temperature Flexibility	ASTM D2671 (4hrs at -75 °C)	No Cracking
Flammability	ASTM D2671	Pass
Electric Strength	IEC 243-1	8 KV/mm (min)
Corrosion (Copper Contact and Copper Mirror)	ASTM D2671	No Corrosion
Fluid Resistance	ISO 1817	Pass
Fluid Resistance (Gasoline)		
Fluid Resistance (Hydraulic Fluid)		
Fluid Resistance (Lubricating Oil)		
Fluid Resistance (Tensile Strength)	ISO 37	10 MPa (min)
Fluid Resistance (Ultimate Elongation)		300% (min)
Fungus Resistance	BD 2011 Pt.2.1J	Not Greater Than Rating 2