



A division of CSA Technical Solutions, LLC
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www.BuyHeatShrink.com

Diesel Resistant Heat Shrink Tubing 2:1 Ratio

Our Diesel resistant heat shrink tubing is highly resistant to aviation and diesel fuels, hydraulic fluids and lubrication oils. This 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%

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	Diameter	Mil Specification	ID Before Shrink	ID After Shrink	Wall Thickness
HSDR-0125	HSDR-0125	1/8"	AMS-DTL-23053/16-0125-0	0.125"	0.062"	0.028"
HSDR-0188	HSDR-0188	3/16"	AMS-DTL-23053/16-0188-0	0.188"	0.093"	0.030"
HSDR-025	HSDR-025	1/4"	AMS-DTL-23053/16-001-0	0.250"	0.125"	0.035"
HSDR-0375	HSDR-0375	3/8"	AMS-DTL-23053/16-002-0	0.375"	0.187"	0.040"
HSDR-050	HSDR-050	1/2"	AMS-DTL-23053/16-003-0	0.500"	0.250"	0.048"
HSDR-075	HSDR-075	3/4"	AMS-DTL-23053/16-004-0	0.750"	0.375"	0.057"
HSDR-100	HSDR-100	1"	AMS-DTL-23053/16-005-0	1.000"	0.500"	0.070"

HSDR-150	HSDR-150	1-1/2"	AMS-DTL-23053/16-006-0	1.500"	0.750"	0.095"
HSDR-200	HSDR-200	2"	AMS-DTL-23053/16-007-0	2.000"	1.000"	0.110"

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 D876	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