



A division of CSA Technical Solutions, LLC
1980 NW 44th St Deerfield Beach, FL 33064
Phone 954-978-0056 Fax 888-617-2010
 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.

Properties:

- 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	Mil Spec # AMS-DTL- 23053	Size			
		Before Shrinking		After Shrinking	
		ID Nominal	ID Min	ID Max	Wall Thickness
HSDR-0125	/16-0125"	1/8"	0.125"	0.062"	0.028"
HSDR-0188	/16-0188"	3/16"	0.188	0.093"	0.030"
HSDR-025	/16-001-0	1/4"	0.250"	0.125"	0.035"
HSDR-0375	/16-002-0	3/8"	0.375"	0.187"	0.040"
HSDR-050	/16-003-0	1/2"	0.500"	0.250"	0.048"
HSDR-075	/16-004-0	3/4"	0.750"	0.375"	0.057"
HSDR-100	/16-005-0	1"	1.000"	0.500"	0.070"
HSDR-150	/16-006-0	1-1/2"	1.500"	0.750"	0.095"
HSDR-200	/16-007-0	2"	2.000"	1.000"	0.110"



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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