

# DRD Sleevings – Technical Data Sheet

## Product Data

### Storage:

Cool dry place out of direct sunlight

### Recommended Printer & Ribbon:

#### Sumitag Printer:

300 DPI Printer STP-XD4T-300-S-NC-S  
STP-SQX-300-NC-S

Ribbon	TTR-040-300-BK-2020	Black
	TTR-080-300-BK-2020	Black
	TTR-100-300-BK-2020	Black

### Print Performance of Solvents:

Specifications:

MIL-STD-202G test method 215

Passed with the following ribbon:

2020 Series Ribbon

### Material:

Diesel Resistant Polyolefin

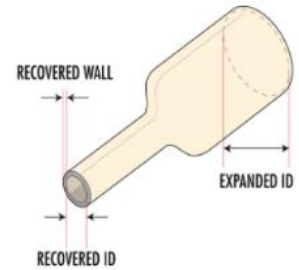
### Operating Temperature:

-55°C to +135°C

## Application Method – Shrink on

The Sumitag DR (Diesel Resistant) is specifically designed for marking of cables. It complies with multiple Rail and Aerospace standards (See Product Properties Table). The standard range comprises of 2 colours. The markers are supplied on rolls for thermal transfer printing, which means production, storage and picking are easy and convenient. Ideally used where resistance to organic fluids, common fuels, lubricants, and solvents properties are required. Typical use in mass transit, aerospace, industrial installations. Can also be supplied on spools for continuous printing applications.

- Flame Retardant
- Self-Extinguishing
- Print Performance to Military requirements
- Two colours- white-yellow
- 12.5mm, 25mm & 50mm Sleeve Lengths



## Order Information

### 2:1 Sleeving

Minimum Diameter Supplied (ID)	Maximum Diameter Recovered (ID)	Sleeve Length (mm)	Markers Across	Minimum Markers/ Box	Colour (**)	Order Code
2.4	1.2	50	1	1000	YW = Yellow	DRD-024-500-**-S-3X_V2
3.2	1.6	50	1	1000	WE = White	DRD-032-500-**-S-3X_V2
4.8	2.4	50	1	1000		DRD-048-500-**-S-3X_V2
6.4	3.2	50	1	1000		DRD-064-500-**-S-3X_V2
9.5	4.8	50	1	500		DRD-095-500-**-S-3X_V2
12.7	6.4	50	1	500		DRD-127-500-**-S-3X_V2
19.1	9.5	50	1	500		DRD-191-500-**-S-3X_V2
25.4	12.7	50	1	300		DRD-254-125-**-S-3X_V2
38.1	19.1	50	1	100		DRD-381-500-**-S-3X_V2

### 3:1 Continuous Sleeving

Nominal ID Supplied mm	Nominal ID Recovered mm	Wall Thickness Recovered (mm) (Nom.)	Minimum Spool Length (m)	Colour (**)	Order Code
2.4	0.8	0.5	30	YW = Yellow	DRC-024-30M-**-3X
3.2	1.1	0.5	30	WE = White	DRC-032-30M-**-3X
4.8	1.6	0.55	30		DRC-048-30M-**-3X
6.4	2.1	0.55	30		DRC-064-30M-**-3X
9.5	3.2	0.6	30		DRC-095-30M-**-3X
12.7	6.4	0.4	30		DRC-127-30M-**-3X
19.1	9.5	0.46	30		DRC-191-30M-**-3X
25.4	12.7	0.5	20		DRC-254-20M-**-3X
38.1	19.1	0.65	20		DRC-381-20M-**-3X

Please contact us for any sizes not listed.....

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## Product Properties

Property	Result	Test Method
Operating Temperature	-55 up to 135°C	SAE- AMS- DTL-23053
Min. Shrink Temperature	135°C	Arrhenius- Plot
Shrink Starts at	100°C	Arrhenius- Plot
Longitudinal change	-4%	IEC60684-2 (Section 9) SAE- AMS- DTL-23053
Tensile Strength	17 MPa average	IEC60684-2 (Section 19)
Ultimate Elongation	441% average	IEC60684-2 (Section 19) ASTM D 638
Specific gravity	1.255 average	ASTM D792 SAE 23053
Split Testing	100% of tested part free of splitting or cracking	ECM220475
Workmanship Standard	Pass	AMS AS5942 EN 6059-407
Heat Shock	Pass - contrast C8	EN 60684-2 section 6 (19.1 & 19.2) AS5942 & EN 6059-407
Tensile Strength after exposure Elongation after exposure	17.7 MPa average 441% average	
Heat Resistance	Pass - contrast C8	EN 60684-2 section 39 (19.1 & 19.2) AS5942 & EN 6059-407
Tensile Strength after exposure Elongation after exposure	17.5 MPa average 474% average	
Thermal Cycling	Resistance to bending. Min contrast C3	ECM220475
Elongation after heat ageing (175°C x 168h)	≥ 300%	ASTM D 638
Bending at low temperature	No evidence of cracking, detachment of coating or delamination	SAE- AMS- DTL-23053 EN 60684-2 section 14 AS5942 & EN 6059-407
Copper (mirror) Corrosion	0% Corrosion	BS EN 60684- 2 Section 33 SAE- AMS- DTL-23053
Water Absorption	0.06% average	BS EN 60684- 2 Section 40 ASTM D 570
UV Resistance	UVA mark adherence – Passed with Contrast level C8 UVB mark adherence – Passed with Contrast level C8	ASTM G-154
Bend Test	Bend test – passed with no evidence of cracking	
2% Secant Modulus	284 MPa average	BS EN 60684- 2 Section 19.5
Fluid Resistance	Pass	BS EN 60684- 2 Section 19.4 SAE- AMS- DTL-23053
Diesel oil resistance Tensile Strength	Pass	NF F00-608 (V=100±5 mm/ min)
Diesel oil resistance Elongation	Pass	NF F00-608
Mineral oil resistance	Pass	NF F00-608
Ozone resistance	Pass	NF F 00-608
Flammability	Burn Length – 31mm After flame time – 0 Sec. After flame time of drips – 0 Sec. No Drips	ABD0031 AITM2-0038 (B) ASTM D 2671
Smoke Density	Pass	ABD0031 AITM2-0007 (B)
Toxic Gas	Nitrogen Oxides (NOx) 5 Sulphur Dioxide (SO2) 13 Hydrogen Chloride (HCl) 1 Hydrogen Fluoride (HF) 0 Hydrogen Cyanide (HCN) 1	ABD0031 AITM 2-0008 (B)
Breakdown Voltage	Nominal Recovered wall thickness - Breakdown Voltage 0.45mm – 9kV 0.50mm – 10.0kV 0.55mm – 10.5kV 0.65mm – 12.0kV 0.75mm – 13.5kV 0.85mm – 15.0kV 0.90mm – 16.0kV 1.00mm – 17.5kV 1.10mm – 18.5kV 1.15mm – 19.0kV 1.25mm – 20.0kV 1.40mm – 22.0kV	BS EN 60684-2 Method 21.2
Volume Resistivity	10 <sup>11</sup> Ω minimum after damp heat 10 <sup>12</sup> Ω minimum room temp.	BS EN 60684-2 Method 23 ASTM D 876
Marking Adherence	Pass – Contrast C10	SAE-AS5942 EN 6059-407
Solvent Resistance	Pass	MIL-STD-202G Method 215K
Colour Fastness to Light	Colourfastness number 5	IEC60684-2 section 34

## Business Management Accreditations



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