



TECHNICAL DATA SHEET

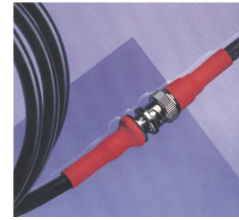
SFTW-203

Base material

Polyolefin

Color

Standard and special colors



Typical Properties

Physical	Value	Standard	Test Method
Shrink ratio	3:1		
Tensile strength	18 N/mm ² min.	-	IEC 60684-2-19
Elongation at break	400 % min.	-	IEC 60684-2-19
Longitudinal change	+0/ -5 %	-	IEC 60684-2-9
Concentricity	70 % min.	-	IEC 60684-2-3
Secant Modulus	100 N/mm ² min.	-	IEC 60684-2-37
Relative Density	1.29 g/cm ³	-	IEC 60684-2-4

Thermal	Value	Standard	Test Method
Continuous Operating Temperature	-55 °C to +135 °C	-	IEC 60684-2-37
Shrink Temperature	110 °C min. 280 °C max.		
Heat Shock 200 °C / 4 hrs		-	IEC 60684-2-6
Tensile strength	18 N/mm ² min.	-	IEC 60684-2-19
Elongation at break	400 % min.	-	IEC 60684-2-19
Heat Aging 150 °C / 168 hrs		-	IEC 60684-2-39
Elongation at break	350 % min.	-	IEC 60684-2-19
Low Temperature Flexibility	No cracking after bending	-	IEC 60684-2-14
Copper Corrosion	No corrosion	-	IEC 60684-2-33
Flammability	Self extinguishing	-	IEC 60684-2-26

Electrical	Value	Standard	Test Method
Dielectric Strength	300 kV/cm	-	IEC 60684-2-21
Volume resistivity	1*10 ¹⁵ Ohm/cm	-	IEC 60684-2-23

Chemical	Value	Standard	Test Method
Chemical Resistance	Good	-	IEC 60684-2-36

Environmental	Value	Standard	Test Method
Halogen free	No	BS 6853	N/a
Fungus growth	No ingrowth		ISO 846
RoHS compliant	Yes	2002/95/EEC Incl. Exemption Oct. 13, 2005 EU 2005/717/EC	N/a
Decabromo diphenylether (PBDE) Free	No		N/a

Technical Information provided consists of typical product data and should not be used for specification purposes. Unless otherwise specified in the test method, all tests are performed at room temperature.

Important note to the purchaser.

All statements, technical information and recommendations contained herein are based on tests 3M believes to be reliable, but their accuracy and completeness are not guaranteed.

The user shall be responsible for determining the suitability of the products for his particular application.

To discuss your application requirements please contact your representative

Issue date 13/9/2005
Replacing 1/8/2004
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SFTW-203

Documentation

UL-224 125°C 600 V, File E48398

Bundesamt für Wehrtechnik und Beschaffung (BWB) certificate K16/99085

VDE certificate 94972

SAE-AMS-DTL 23053/5 class 1

IEC 60684-3-212 type C



Product Guide - Table 1

Part Number	Expanded ID (min.)		Recovered ID (max.)		Total Recovered Wall Thickness (nominal)		Recovered Adhesive Wall Thickness (nominal)	
	mm.		mm.		mm.		mm.	
1.5	1.5		0.5		0.45			
3.0	3.0		1.0		0.55			
6.0	6.0		2.0		0.65			
9.0	9.0		3.0		0.75			
12.0	12.0		4.0		0.75			
18.0	18.0		6.0		0.75			
24.0	24.0		8.0		1.00			
39.0	39.0		13.0		1.15			

Storage Conditions

Temperature: min. -50 °C
max. +50 °C

Moisture: max. 75 % (packaging)

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