TECHNICAL DATA SHEET

Document number: TTDS-017
Issue: 5
Date: November 2011

D-SCE heat-shrinkable sleeves

MATERIAL DESCRIPTION:	Thin wall, thermally-stabilised radiation cross-linked polyolefin heat-shrinkable tubing, assembled as organized cut sleeves in a "ladder" configuration. 3:1 shrink ratio.
USE:	Identification of wires and cables by computer-based printing onto sleeves. Sleeves can also provide terminal insulation and strain relief. Suitable for applications where exposure to organic fluids, especially oils, is required for long periods at elevated temperatures. Especially suited to rail rolling stock and aerospace applications. Printed sleeve meets the requirements of SNCF specification NF F 00608 Categories A & H and BS EN50343 Appendix H and also meets the material and performance requirements of SAE-AMS-DTL-23053/6 Class 1.
PRINT METHOD/RIBBON:	Refer to TE 'Identification TT Printer Product Ribbon Matrix' Document 411-121005.
SERVICE TEMPERATURE:	-55°C to +135°C (-67°F to +275°F).
MINIMUM RECOVERY TEMPERATURE:	135°C (275°F).
MAXIMUM STORAGE TEMPERATURE:	40°C (104°F).
COLORS:	Yellow. Other colors available on request.
HEAT AGEING:	168 hours at 150°C (302°F) Tensile Strength 15MPa minimum; Ultimate Elongation 300% minimum Print legible AMS AS5942 - 20 rubs.
HEAT SHOCK:	4 hours at 215°C (419°F) No cracking, dripping or flowing, Print legible; AMS AS5942 - 20 rubs.
HUMIDITY RESISTANCE:	168 hours at 85°C (185°F) and 85% RH, Print legible AMS AS5942 - 20 rubs.

Business locations:
☎ France: +33 (0) 476 099696 (Labels)
☎ Germany: + 49 (0) 6074 89080
☎ UK: + 44 (0) 1495 244000 (Labels)
☎ Japan: + 81 (0) 44 900 5102
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UV RESISTANCE:	250 hours (ASTM G154: 8 hours UVB at 1.35 W/M^2/nm followed by 4 hours condensation at 50°C): Print Legible AMS AS5942 20 rubs
FUNGUS RESISTANCE:	Rating 3 maximum (BS EN 60084-1-10 Variant 1).
FLAMMABILITY:	Burn time 30 seconds maximum (ASTM D2671 Procedure B).
WATER ABSORPTION:	2% maximum (BS EN ISO 62 Procedure A).
LIMITED OXYGEN INDEX:	24% minimum (BS EN ISO 4589 Part 2).
DIELECTRIC STRENGTH:	20MV/m minimum (ASTM D2671)
PRINT PERMANENCE:	AMS AS5942 Clause 4.1 Adherence, 50 rubs. MIL-STD-202 Method 215, Solvent Resistance. NF F 00608 Sleeve Marking Adhesion, Types A and H BS EN 50343 Appendix H
FLUID RESISTANCE:	Fluid immersion followed by AMS AS5942 Adherence, 20 rubs:

THREAT	TEST	EFFECT
Diesel fuel (BS 2869 Class A1)	168 hours at 70°C (158°F)	Print legible
IRM 902 Transformer oil (BS 148)	72 hours at 50°C (122°F)	Print legible
JP-8 Aircraft fuel (MIL-T-83133)	24 hours at 24°C (75°F)	Print legible
Aviation gasoline (100/130)	24 hours at 24°C (75°F)	Print legible
Skydrol™ 500 hydraulic fluid	24 hours at 24°C (75°F)	Print legible
MIL-A-8243 Anti-icing fluid	24 hours at 24°C (75°F)	Print legible

See TE Connectivity specification RW 2028 for full D-SCE performance & dimensional details.

Some types of neoprene insulation used in jackets contain additives that can migrate to the surface and discolor the polyolefin D-SCE sleeves. Any discoloration is dependent on the composition of the neoprene, combined with application conditions. Users should independently evaluate the suitability of D-SCE sleeves for applications involving neoprene-jacketed cables.

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Mouser Electronics

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TE Connectivity:

D-SCE-1K-3.2-50-1-CS8766 D-SCE-1K-3.2-50-4-CS8766 D-SCE-1K-3.2-50-9-CS7834 D-SCE-1K-6.4-50-9-CS7834