

TECHNICAL DATA SHEET

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D-SCE heat-shrinkable sleeves

MATERIAL DESCRIPTION:	Thin wall, thermally-stabilized 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 sleeves meet the requirements of SNCF specification NFF 00.608 Categories A & H, and also meet the material and performance requirements of SAE-AMS-DTL-23053/6 Class 1.
PRINT METHOD/RIBBON:	Thermal transfer: Tyco T312M-PRINTER, Tyco 1966-Ribbon and TMS-RJS-RIBBON-4DSCE Thermal transfer: Tyco T200 Series , Tyco TMS-101-RIBBON-4DSCE Thermal transfer: T612M-DS-Printer, Tyco TMS-RJS-RIBBON-4DSCE Dot matrix: Epson LQ870, Tyco TMS-SYSTEM-SIX-RIBBON-A Dot matrix: AM6310, Tyco 1892BK04-RIBBON
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:	15MPa tensile strength with 300% ultimate elongation retained and print legible after 168 hours at 150°C (302°F).
HEAT SHOCK:	No cracking, dripping or flowing and print legible after 4 hours at 215°C (419°F).
LOW TEMPERATURE FLEXIBILITY:	No cracking after 4 hours at -75°C (-103°F), 10X mandrel bend.

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- HUMIDITY RESISTANCE:** Print legible after 168 hours at 85°C (185°F) and 85% RH.
- UV RESISTANCE:** Print legible after 250 hours (ASTM G53).
- MOLD GROWTH:** Rating 3 maximum (IEC 68-2-10 Variant 1).
- FLAMMABILITY:** Burn time 30 seconds maximum (ASTM D2671 Procedure B).
- WATER ABSORPTION:** 2% maximum (ISO 62 Procedure A).
- LIMITED OXYGEN INDEX:** 24 minimum (ISO 4589 Part 2).
- DIELECTRIC STRENGTH:** 20MV/m minimum (IEC 243).
- PRINT PERMANENCE:** Print legible after 30 rubs (SAE AS81531, 4.6.2).
Print legible after 50 strokes (MIL-STD-202F, method 215J).

FLUID RESISTANCE:

THREAT	TEST	EFFECT
Diesel fuel (BS 2869 Class A1)	168 hours at 70°C (158°F); SAE AS81531 4.6.2 (20 rubs)	Print legible
IRM 902 transformer oil (BS 148)	72 hours at 50°C (122°F); SAE AS81531 4.6.2 (20 rubs)	Print legible
MIL-T-83133 aircraft fuel (JP-8)	24 hours at 24°C (75°F); SAE AS81531 4.6.2 (20 rubs)	Print legible
Aviation gasoline (100/130)	24 hours at 24°C (75°F); SAE AS81531 4.6.2 (20 rubs)	Print legible
Skydrol™ 500 hydraulic fluid	24 hours at 24°C (75°F); SAE AS81531 4.6.2 (20 rubs)	Print legible
MIL-A-8243 anti-icing fluid	24 hours at 24°C (75°F); SAE AS81531 4.6.2 (20 rubs)	Print legible

Notes: See Tyco 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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