

TECHNICAL DATA SHEET

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Document number: TTDS-019
Issue: 3
Date: April 2004

RPS™ heat-shrinkable sleeves

MATERIAL DESCRIPTION:	Thin wall, flame retarded 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 many commercial applications.
PRINT METHOD/RIBBON:	Dot matrix: Epson LQ870, Tyco TMS-SYSTEM-SIX-RIBBON-A Dot matrix: AM6310, Tyco 1892BK04-RIBBON Thermal transfer: Tyco T312M-PRINTER, Tyco TMS-RJS-RIBBON-4RPSCE Thermal transfer: Tyco T200 Series, Tyco TMS-101-RIBBON-4RPSCE Thermal transfer: Tyco T408M-PRINTER, Tyco TMS-RJS-RIBBON-4RPSCE Thermal transfer: Tyco T612M-DS-PRINTER, Tyco TMS-RJS-RIBBON-4RPSCE
SERVICE TEMPERATURE:	-30°C to +105°C (-22°F to +221°F).
COLORS:	White or yellow.
FLAMMABILITY:	Average burn time <1 minute (UL 224, all tubing flame test).
LONGITUDINAL CHANGE:	20% maximum on shrinking.
TENSILE STRENGTH:	8MPa minimum (ASTM D2671).
ULTIMATE ELONGATION:	150% minimum (ASTM D2671).
MOLD GROWTH:	Print legible after 56 day incubation (ISO 846B) – tensile strength and ultimate elongation maintained after testing.
DIELECTRIC STRENGTH:	20MV/m minimum.

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MAXIMUM STORAGE TEMPERATURE: 40C (104F)

PRINT PERMANENCE: Print legible after 50 rubs (SAE AS81531, 4.6.2)
 Print legible after 30 strokes (MIL-STD-202F, method 215J)

FLUID RESISTANCE:

THREAT	TEST	EFFECT
Isopropyl Alcohol	24 hours at 23°C (73°F), SAE AS81531 4.6.2 (20 rubs)	Print legible
Gasoline (unleaded)	24 hours at 23°C (73°F), SAE AS81531 4.6.2 (20 rubs)	Print legible
Diesel Fuel, DF2	24 hours at 23°C (73°F); SAE AS81531 4.6.2 (20 rubs)	Print legible
Auto Engine Oil, SF 10W-40 (SAE J 183, SAE J 300)	24 hours at 23°C (73°F); SAE AS81531 4.6.2 (20 rubs)	Print legible
Motor Vehicle Brake Fluid, SAE J 1703	24 hours at 23°C (73°F); SAE AS81531 4.6.2 (20 rubs)	Print legible
Ethylene Glycol	24 hours at 23°C (73°F); SAE AS81531 4.6.2 (20 rubs)	Print legible
Vertrel XF	24 hours at 23°C (73°F), SAE AS81531 4.6.2 (20 rubs)	Print legible

Notes: See Tyco specification RT 1804 for full RPS performance & dimensional details.

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

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