

TECHNICAL DATA SHEET

www.tycoident.com

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:	Passes UL 224, all tubing flame test: average burn time <1 minute; no burning, falling particles; does not support spread of flame
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.

Page 1 of 2

Business locations:

☎ N America: + 1 650 361 3860 (West Coast)
☎ France: +33 (0) 476 099696 (Labels)
☎ Germany: + 49 (0) 6074 89080
☎ UK: + 44 (0) 1495 244000 (Labels)
☎ Japan: + 81 (0) 44 900 5102

☎ N America: + 1 401 751 6505 (East Coast)
☎ France: + 33 (0) 134 20 21 22 (Other products)
☎ UK: + 44 (0) 1793 528171 (Other products)
☎ Singapore: + 65 (0) 4866 151

All the above information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their application. Tyco Electronics makes no warranties as to the accuracy or completeness of the information and disclaims any liability regarding its use. Tyco Electronics only obligations are those in the Standard Terms and Conditions of Sale for this product and in no case will Tyco Electronics be liable for any incidental, indirect or consequential damages arising from the sale, resale, use or misuse of the product. Tyco Electronics Specifications are subject to change without notice. In addition Tyco Electronics reserves the right to make changes in materials or processing, without notification to the Buyer, which do not affect compliance with any applicable specification.

TECHNICAL DATA SHEET

www.tycoident.com

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

RPS™ heat-shrinkable sleeves

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 petrol)	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
Hydrofluorocarbon solvent; Vertrel XF®	24 hours at 23°C (73°F), SAE AS81531 4.6.2 (20 rubs)	Print legible

® Vertrel XF is a registered trademark of DuPont

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.

Page 2 of 2

Business locations:

☎ N America: + 1 650 361 3860 (West Coast)
 ☎ France: +33 (0) 476 099696 (Labels)
 ☎ Germany: + 49 (0) 6074 89080
 ☎ UK: + 44 (0) 1495 244000 (Labels)
 ☎ Japan: + 81 (0) 44 900 5102

☎ N America: + 1 401 751 6505 (East Coast)
 ☎ France: + 33 (0) 134 20 21 22 (Other products)
 ☎ UK: + 44 (0) 1793 528171 (Other products)
 ☎ Singapore: + 65 (0) 4866 151

All the above information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their application. Tyco Electronics makes no warranties as to the accuracy or completeness of the information and disclaims any liability regarding its use. Tyco Electronics only obligations are those in the Standard Terms and Conditions of Sale for this product and in no case will Tyco Electronics be liable for any incidental, indirect or consequential damages arising from the sale, resale, use or misuse of the product. Tyco Electronics Specifications are subject to change without notice. In addition Tyco Electronics reserves the right to make changes in materials or processing, without notification to the Buyer, which do not affect compliance with any applicable specification.