TECHNICAL DATA SHEET

Document number: TTDS-033
Issue: 7
Date: August 2014

HS/HC Heat shrinkable sleeves

MATERIAL DESCRIPTION:	Thin wall, flame retarded radiation cross-linked polyolefin heat-shrinkable tubing, assembled as organized cut sleeves on a paper carrier. HS products are 2:1 shrink ratio. HC products are 3:1 shrink ratio.
USE:	Identification of wires and cables by computer-based printing onto sleeves. Suited to a wide variety of applications, including those with military standard requirements.
PRINTING SYSTEM	Print Quality and Print Performance can only be guaranteed when specific TE printer and ribbons are used. The current list of printers and ribbons can be found in TE document 411-121005 '**Identification Printer Product Ribbon Matrix**' This document can be found at the TE document centre: http://www.te.com/commerce/DocumentDelivery/DDEController Cable markers are fully supported by WINTOTAL and PrintEasy label printing software, available from the TE product store: http://www.te.com/en/general/label-printing-software.html Contact a TE representative for further information
SPECIFICATIONS/APPROVALS:	TE Specification RW-2539 2:1 shrink ratio AMS-DTL-23053/C Class 1 (2:1), 3:1 shrink ratio AMS-DTL-23053/C Class 1 except dimensions.
SERVICE TEMPERATURE:	-55˚C to +135˚C (-67˚F to +275˚F).
MINIMUM SHRINK TEMPERATURE:	120˚C (248˚F).
SHELF LIFE:	Five years from date of manufacture. See TE document 408-121006 for guidance.
COLOURS:	White or yellow. Other colours available on request.

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FLAMMABILITY:	Self-extinguishing, non-flame propagating (ASTM D2671 Procedure B).
TENSILE STRENGTH:	18 MPa typical (ASTM D638).
ULTIMATE ELONGATION:	450% typical (ASTM D638).
DIELECTRIC STRENGTH:	20MV/m minimum (ASTM D2671).
VOLUME RESISTIVITY	10^{14} ohm-cm minimum (ASTM D876)
WATER ABSORPTION:	0.1% typical (ASTM D570).
HEAT SHOCK:	400% typical UE retained after 168 hours at 158˚C (316˚F). No cracking, dripping or flowing after 4 hours at 250˚C (392˚F).
LOW TEMPERATURE FLEX:	No cracking or splitting after 4 hours at -55˚C (-65˚F) (ASTM D 2671).

PRINT PERFORMANCE:	SAE AS5942, 20 rubs, 1Kg load	Legible, minimum print contrast 3
	MIL 202 METHOD 215, Solvents A, B, D, 30 strokes, tooth brush	Legible, minimum print contrast 3
	MIL STD 23053/5C, Resistance to fluids, 24 hours at 23˚C (75˚F), Crockmeter 20 rubs, 1kg load.	Legible, minimum print contrast 3
	BS 4G 198: Pt 3, Resistance to fluids, 24 hours, 25 wipes with tissue.	Legible, minimum print contrast 3

Further information and availability can be found through the TE Cable Identification web site:
http://www.te.com/catalog/labels-identification/menu/en/12933?BML=10576