



Doc. Number: TTDS-255

Issue: 3

Date: Jan' 2013

TECHNICAL DATASHEET

UV-SCE UV Resistant Heat Shrinkable Identification

UV-SCE is a thin walled, flexible, flame retarded, identification tubing supplied as an assembled "ladder" configuration for ease of printing using the recommended TE printer and ribbon combinations and software.

The compound is formulated to give flame retardant properties and UV resistance and yet it still maintains good physical performance and mark permanence when exposed to various environments. Operating temperature -55 to 200°C.

Material	The tubing is fabricated from irradiated, thermally stabilised and flame retarded modified polymer compound.	
Dimensions	Size range: Minimum expanded internal diameter 3/32" (2.4mm), 1/8" (3.2mm), 3/16" (4.8mm), 1/4" (6.4mm), 3/8" (9.5mm), 1/2" (12.7mm), 3/4" (19.0mm), 1" (25.4mm) and 1-1/2" (38mm). Shrink Ratio: All 2 to 1 except 2.4 which is 3:1 Colors: White and yellow as standard.	
Print System	Thermal transfer printable	See document 411-121005 – "Customer printer ribbon matrix", for current recommended printer / ribbon systems
Weathering properties	UV-A / moisture exposure. Samples still legible at 25000 hours. No Chalking, crazing or cracking evident when assessed to ASTM D 660, ASTM D 661 & ASTM D 4214. Legible after UV-A / moisture exposure and Mark adherence test ¹	Continuous cycle of 8hr UV-A 340 340µm followed by 4hr condensation in Q-Panel U-V-O-meter RW-2534 Clause 4.3.14.1 (In accordance with SAE-AS 5942)
	Simulated Solar radiation (Xenon arc) Print legible. Legible after exposure and Mark adherence	IEC 60068-2-5, procedure B RW-2534 Clause 4.3.14.2 (In accordance with SAE-AS 5942)
	Resistance to Ozone cracking. Samples legible. Legible after exposure and Mark adherence	NFT N46-019, Method A RW-2534 Clause 4.3.16 (In accordance with SAE-AS 5942)

¹ there is color fade of the yellow product to a sandstone yellow after 1 year at these conditions

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Salt Spray Resistance	Legible after exposure and Mark adherence	BS EN 60068-2-11 followed by RW-2534 Clause 4.3.14.2 (In accordance with SAE-AS 5942)
Mark Adherence	Legible after 100 rubs	RW-2534 Clause 4.3.7.1 (In accordance with SAE-AS 5942)
Fluid Resistance		
Diesel	Legible	24hr Immersion @ 23°C
Hydraulic Fluid (MIL PRF 5606)	Legible	RW-2534 Clause 4.3.16
Lubricating Oil (MIL PRF 7808)	Legible	Note: tested as printed, not after UV exposure
Lubricating Oil (MIL PRF 23699)	Legible	
Salt water (5% solution)	Legible	
Anti-icing fluid (SAE AS 8243)	Legible	
Isopropyl Alcohol	Legible	
JP8	Legible	
Skydrol 500 B4	Legible	
Solvent Resistance	Legible after 100 brushes	RW-2534 Clause 4.3.7.2 (In accordance with MIL-STD-202G method 215K)
Thermal Properties		
Heat Shock 240min at 250°C	No dripping, flowing or cracking Legible	In accordance with IEWI-007 RW-2534 Clause 4.3.5
Heat Ageing 168hrs at 200°C	No dripping flowing or cracking Legible	In accordance with IEWI-008 RW-2534 Clause 4.3.6
Low Temperature Flex 240min at -55°C	No cracking	In accordance with IEWI-006 RW-2534 Clause 4.3.4

Note- IEWI = TE Connectivity Ident Engineering Work Instruction available in DM.TEC under the name 109-121***

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Electrical Properties

Dielectric Strength	23.6 kV/mm minimum	In accordance with IEWI-006 RW-2534 Clause 4.3.9
Volume Resistivity	10 ¹² Ω cm minimum	In accordance with IEWI-017 RW-2534 Clause 4.3.10

Other Properties

Flammability:	Pass	UL224 – VW-1 RW-2534 Clause 4.3.13.1
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Copper Corrosion: 16 hours at 175°C	Non corrosive	In accordance with IEWI-009 RW-2534 Clause 4.3.11
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Water Absorption: 24hrs at 23°C	1.0% maximum	In accordance with IEWI-016 RW-2534 Clause 4.3.12
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FOR FULL PRODUCT PERFORMANCE DETAILS SEE TE CONNECTIVITY PRODUCT SPECIFICATION RW-2534 UV-SCE

Product is compliant to EU RoHS Directive 2002/95/EC. This compliance information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information provided by our suppliers. This information is subject to change. For the latest compliance status, visit the TE Connectivity RoHS Customer Support Center - www.tycoelectronics.com/customersupport/rohssupportcenter

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