



# TECHNICAL DATA SHEET

## CM-SCE-TP

## THERMAL TRANSFER PRINTABLE CABLE MARKER

Document number: TTDS-113  
Issue: 3  
Date: January 2013

<b>DESCRIPTION:</b>	Extruded radiation cross-linked flame retarded polyolefin sheet, formed into punched organized cable markers. TP version has punched out sensor slots for thermal transfer printing.
<b>USE:</b>	Identification of cables and wire bundles by computer-based printing onto markers. Markers are attached using cable ties. Suitable for many end uses, including military and aerospace applications. For thermal transfer, print on the smooth side of the marker.
<b>PRINTING SYSTEM:</b>	Refer to TE document 411-121005 IDENTIFICATION PRINTER PRODUCT RIBBON MATRIX for the recommended printer/product/ribbon combination
<b>FORMAT</b>	Size ¼", and ½" 6 holes (6H), and 4 holes (4H)
<b>SERVICE TEMPERATURE:</b>	-55°C to +135°C (-67°F to +275°F).
<b>MAXIMUM STORAGE TEMPERATURE:</b>	40°C (104°F).
<b>HEAT AGEING:</b>	No cracking and print legible after 168 hours at 175°C (347°F).
<b>HEAT SHOCK:</b>	No cracking, dripping or flowing and print legible after 4 hours at 250°C (482°F).
<b>COLOR:</b>	White, yellow, and pink.
<b>TENSILE STRENGTH:</b>	10.3MPa minimum (ASTM D638).
<b>ULTIMATE ELONGATION:</b>	200% minimum (ASTM D638).
<b>MOLD GROWTH:</b>	Rating 1 maximum (ASTM G21).
<b>CORROSIVE EFFECT (COPPER MIRROR):</b>	Non corrosive, 16 hours at 175°C (347°F), ASTM D2671 Procedure A.

If the document is printed it becomes uncontrolled  
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**PRINT PERMANENCE<sup>1</sup>:** Print legible after 50 rubs (SAE AS5942 Marking Durability).  
Print legible after 50 strokes (MIL-STD-202G, Method 215).

**FLUID RESISTANCE:** Fluid immersion for 24 hours at 23 ± 2°C (73°F) followed by SAE AS5942, 1kg load, 20 rubs.

Sodium chloride  
(5% by weight in water) Print legible

MIL-T-83133 Aircraft fuel  
(JP-8) Print legible

MIL-L-23699 Lubricating oil Print legible

Propylene glycol de-icing  
fluid  
(50% solution in water) Print legible

Aviation gasoline (100/130) Print legible

Skydrol<sup>TM</sup> 500<sup>2</sup> hydraulic fluid Print legible

Note: see Tyco specification RW 2513 for full CM-SCE performance & dimensional details.

<sup>1</sup> Obsolete standard AS81531 has been replaced by SAE AS5942. The print permanence of the mark has not changed.

<sup>2</sup> Skydrol is a registered trade mark of Solutia