

**TECHNICAL DATA SHEET**

Document number: TTDS-021

Issue: 3

Date: Nov' 2008

**CM-SCE  
CABLE MARKER**

<b>DESCRIPTION:</b>	Extruded radiation cross-linked flame retarded polyolefin sheet, formed into punched organized cable markers.
<b>USE:</b>	Identification of cables and wire bundles by computer-based printing onto markers. Markers are attached using cable ties. Suitable for many applications, including military and aerospace applications. Print permanence is improved when product is permatished.
<b>PRINT METHOD &amp; RIBBON:</b>	Dot Matrix. Epson LQ590 printer with Tyco Electronics TMS-SYSTEM-SIX-RIBBON-A AM6310 printer with Tyco Electronics 1982BK04-RIBBON Laser. LMS6000, LMS9000 or other approved Nd:YAG laser marking system
<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>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>COLOUR:</b>	White or yellow. Other colours available on request.
<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).

Page 1 of 2

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**CORROSIVE EFFECT  
(COPPER MIRROR):**

Non corrosive (16 hours at 175°C (347°F), ASTM D2671 Procedure A).

**PRINT PERMANENCE:**

Print legible after 50 rubs (SAE AS81531, 4.6.2).

Print legible after 50 strokes (MIL-STD-202F, method 215J).

**FLUID RESISTANCE:**

THREAT	TEST	EFFECT
JP-8 aircraft fuel	24 hours at 23°C (73°F); SAE AS81531 4.6.2 (20 rubs)	Print legible
Skydrol 500 B4	24 hours at 23°C (73°F); SAE AS81531 4.6.2 (20 rubs)	Print legible
MIL-PRF-5606 hydraulic fluid	24 hours at 23°C (73°F); SAE AS81531 4.6.2 (20 rubs)	Print legible
MIL-PRF-7808 lubricating oil	24 hours at 23°C (73°F); SAE AS81531 4.6.2 (20 rubs)	Print legible
SAE-AS-8243 anti-icing fluid	24 hours at 23°C (73°F); SAE AS81531 4.6.2 (20 rubs)	Print legible
Aviation gasoline (100/130)	24 hours at 23°C (73°F); SAE AS81531 4.6.2 (20 rubs)	Print legible
5% salt water	24 hours at 23°C (73°F); SAE AS81531 4.6.2 (20 rubs)	Print legible

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

Page 2 of 2

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