

Introducing
**Lightweight Composite
EMI Shields (LCES)**



Lightweight Composite EMI Shields (LCES)



Cost Effective

Relative to machined metal shields

Weight Savings

40% lighter than aluminum

Increased EMI Suppression

Carbon composite

EMI absorbing

Exposed composite absorbs EMI instead of simply reflecting EMI back towards the board

DESCRIPTION

Today's military enclosures have ever increasing size, weight and power (SWaP) demands and shape complexity. TE Connectivity (TE) is a global provider of high performance polymer composites and molding processes for military and aerospace enclosures.

Composite EMI covers provide a light-weight, cost effective alternative to metal board level EMI covers. TE LCES shields are custom molded for your specific RF applications and available in electroplated and carbon-composite options.

APPLICATIONS

Ideal for a broad range of applications, where EMI shielding of PCBs is required such as:

- Radios
- Commercial and Military Avionics
- Radars
- RF applications

MECHANICAL

Carbon reinforced composite, similar strength to aluminum

40% lighter than aluminum

Temperature Range: -75°C to +125°C

ELECTRICAL

Carbon composite with electroplating to meet your EMI and mechanical requirements.

Conductive composites for enhanced EMI absorption

Shielding effectiveness: >100dB SE (1-5 GHz) and >80dB SE (up to 20GHz)

Sheet resistance: <0.6 milliOhm/sq. (5 um Ni, 10um Cu)

MATERIAL

Carbon composite with electroplating

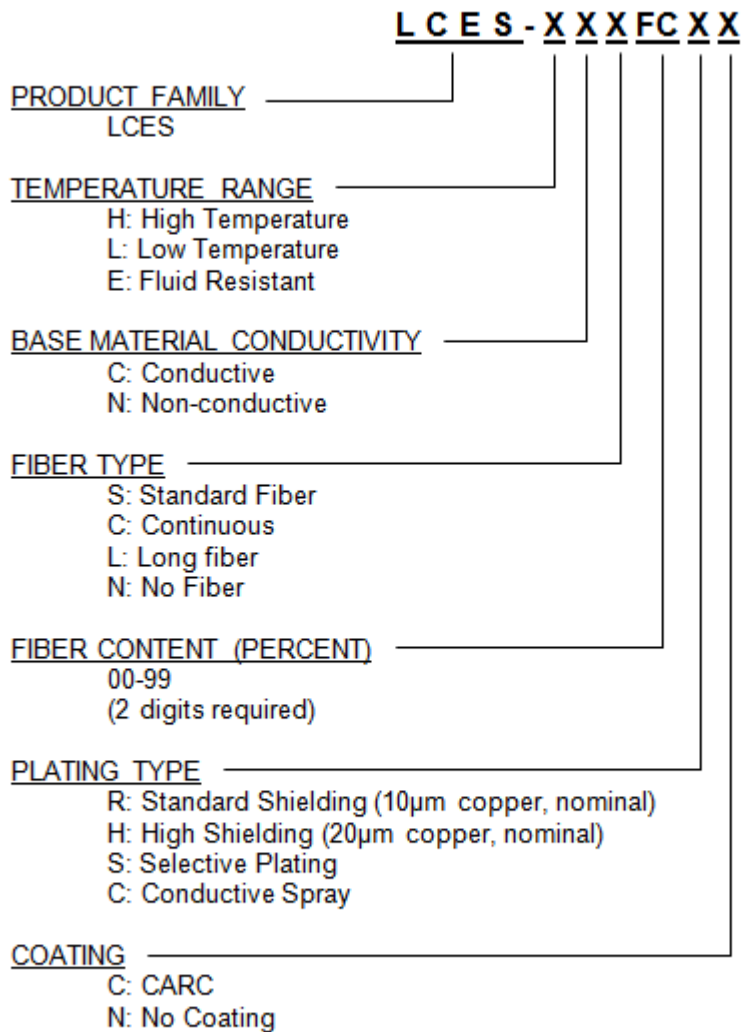
Cost effective relative to machined or cast aluminum

STANDARDS & SPECIFICATIONS

Designed and tested to IEEE-299 specification

PART NUMBERING SYSTEM

PART NUMBERING SYSTEM:



Part Numbering Example: LCES-HCS30RN

FOR MORE INFORMATION

Technical Support

Internet:	www.te.com/ADM
North America:	+1 (800) 522 6752
Asia Pacific:	+86 0 400 820 6015
Austria:	+43 1 905 601 228
Baltic Region:	+46 8 5072 5000
Benelux:	+31 73 6246 999
Czech Republic:	+420 800 701 462
France:	+33 1 34 20 86 86
Germany:	+49 6251-133 1999
Hungary:	+36 809 874 04
Italy:	+39 011-401 2632
Nordic:	+46 8 5072 5000
Poland:	+48 800 702 309
Russia:	+7495 790 790 2
Spain/Portugal:	+34 93-2910366
Switzerland:	+41 52 633 66 26
United Kingdom:	+44 800 267 666

Follow us on Twitter for all the latest product news @TEConnectivity, and on Facebook, TEConnectivity.

Connect with one of our Subject Matter Experts at www.DesignSmarterFaster.com

www.te.com/ADM

© 2013 Tyco Electronics Corporation. All Rights Reserved.

1-1773713-8 ADM/RRD 2.5M 12/2013

TE (logo), TE Connectivity and the TE connectivity (logo) are trademarks of the TE Connectivity Ltd. family of companies.

Other products, logos, and company names mentioned herein may be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information herein, nothing herein constitutes any guarantee that such information is error-free, or any other representation, warranty or guarantee that the information is accurate, correct, reliable current. The TE entity issuing this publication reserves the right to make any adjustments to the information contained herein at any time without notice. All implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose are expressly disclaimed. The dimensions herein are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

