

STANDARD AND CUSTOM BOARD LEVEL SHIELDING (BLS)

As complexity and functionality increases, there is a growing need for thinner devices with multiple antennas, higher data rates and increased operating frequencies. EMI (Electromagnetic Interference) shields from TE Connectivity (TE) are stamped one and twopiece metal cages that help provide isolation of board level components, minimize crosstalk and reduce EMI susceptibility without impacting system speed.

DATA AND DEVICES /// STANDARD AND CUSTOM BOARD LEVEL SHIELDING

ON DEMAND OR AT YOUR COMMAND

Whether you need a custom design or an off-the-shelf solution that is immediately available, we've got you covered. Our new standard BLS portfolio is available in both industry-standard cold rolled steel (CRS) and aluminum material. Aluminum offers enhanced benefits which include:



Weight Savings

- Aluminum is 1/3 the density of CRS material while still offering similar EMI suppression



 Improved Thermal Conductivity
Aluminum can provide up to 5 times better thermal conductivity than CRS

TE CONNECTIVITY BLS ADVANTAGE

- NEW standard portfolio on-demand in CRS and aluminum material
- Proven designed-in features
- Core competencies of stamping, plating and automation for more than 50 years
- Rapid turn tooling/prototyping within each region (3-5 day)
- Streamlined, automated and continuous production line
- Local FAE support
- Complex custom high volume support
- In house EMI expertise
- One of the largest suppliers of connectivity solutions addressing a range of industries
- Global scale and low cost manufacturing
- · Broad portfolio enables vendor reduction for your project

APPLICATIONS:

Anywhere board level EMI suppression is needed, including:

- Mobile phones & Tablets
- 2-in-1 notebooks
- Game consoles
- Routers (commercial & enterprise)
- Point of Sale (POS) equipment
- Wireless meters

- Wireless speakers
- Wearables & IoT
- Drones
- Virtual Reality (VR) headsets
- Femto cell
- Servers

DESIGN DIMENSIONS *

- Minimum size: 5mm(L) x 5mm(W) x 0.80mm(H)
- Maximum size: 100mm(L) x 100mm(W) x 5mm(H)

PACKAGING

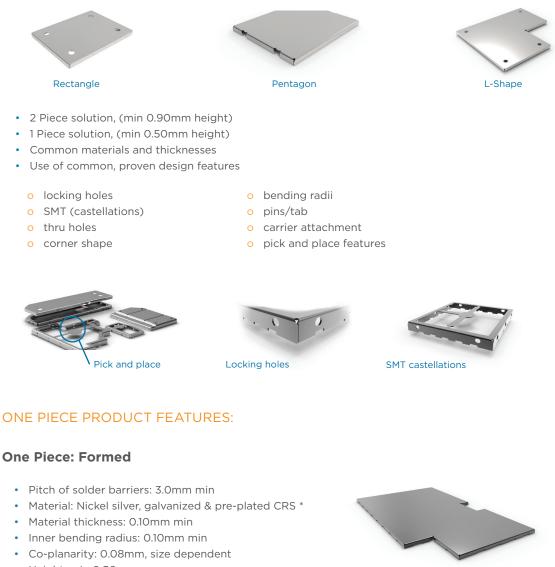
- Tape & reel
- Vacuum formed tray

* Contact TE for other size requirements.

CUSTOMIZED SOLUTIONS

SHARED FEATURES OF TWO PIECE AND ONE PIECE SHIELDS

Basic shapes have been defined to enable 24-hour generation of 2D and 3D drawings, as well as efficient, rapid prototyping within 72 hours.

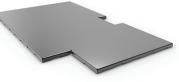


• Height: min 0.50mm

One Piece: Deep Drawn

- Material: Nickel silver, galvanized steel *
- Material thickness: 0.15mm min
- · Co-planarity: 0.1mm, size dependent
- Height: max 3.00mm

* Other material may be available, please consult with your TE representative.





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STANDARD BLS OFFERING

ONE PIECE SHIELDS				PACKAGING		
CRS	Aluminum	Thickness (mm)	Size (L x W x H) (mm)	Diameter (mm)	Pcs/Reel	Pcs/Box
2118706-2	2118706-4	0.20	13.66 x 12.70 x 2.54	330	900	3600
2118707-2	2118707-4	0.20	16.50 x 16.50 x 3.60	330	550	1650
2118708-2	2118708-4	0.20	26.21 x 26.21 x 5.08	380	280	840
2118709-2	2118709-4	0.20	32.00 x 32.00 x 6.00	380	166	498
2118710-2	2118710-4	0.20	38.10 x 25.40 x 6.00	380	216	648
2118711-2	2118711-4	0.20	36.83 x 33.68 x 5.08	380	186	558
2118712-2	2118712-4	0.20	44.37 x 44.37 x 9.75	380	90	180







Two Piece Shields

TWO PIECE SHIELDS - COVER				PACKAGING	
CRS	Aluminum	Thickness (mm)	Size (L x W X H) (mm)	Туре	Pcs/Box
2118713-2	2118713-4	0.15	14.06 x 13.10 x 2.00	Bulk/Bag	3000
2118715-2	2118715-4	0.15	16.90 x 16.90 x 2.00	Bulk/Bag	3000
2118717-2	2118717-4	0.15	26.71 x 26.71 x 2.00	Bulk/Bag	3000
2118719-2	2118719-4	0.15	32.50 x 32.50 x 2.00	Bulk/Bag	3000
2118721-2	2118721-4	0.15	38.60 x 25.90 x 2.00	Bulk/Bag	3000
2118723-2	2118723-4	0.15	37.33 x 34.18 x 2.00	Bulk/Bag	1800
2118725-2	2118725-4	0.20	44.97 x 44.97 x 2.00	Bulk/Bag	1800
2118727-2	2118727-4	0.20	29.96 x 19.10 x 2.00	Bulk/Bag	3000
2118729-2	2118729-4	0.20	44.60 x 31.10 x 2.00	Bulk/Bag	1800
2118731-2	2118731-4	0.15	51.30 x 38.60 x 2.00	Bulk/Bag	1200

TWO PIE	CE SHIELDS - FRAME	PACKAGING			
CRS	Thickness (mm)	Size (L x W x H) (mm)	Diameter (mm)	Pcs/Reel	Pcs/Box
2118714-2	0.20	13.66 x 12.70 x 2.54	330	900	3600
2118716-2	0.20	16.50 x 16.50 x 3.60	330	550	1650
2118718-2	0.20	26.21 x 26.21 x 5.08	380	280	840
2118720-2	0.20	32.00 x 32.00 x 6.00	380	166	498
2118722-2	0.20	38.10 x 25.40 x 6.00	380	216	648
2118724-2	0.20	36.83 x 33.68 x 5.08	380	186	558
2118726-2	0.20	44.37 x 44.37 x 9.75	380	90	180
2118728-2	0.20	29.36 x 18.50 x 7.00	380	280	840
2118730-2	0.20	44.00 x 30.50 x 3.00	380	340	1020
2118732-2	0.20	50.80x 38.10 x 5.08	380	170	340

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PRODUCT TYPE: TWO PIECE

Frame Component

- Pitch of castellation: 3mm min
- Pitch of locking holes: 3mm min
- Material: Nickel silver, galvanized & pre-plated CRS *
- Material thickness: 0.10mm min
- Inner bending radius: 0.10mm min
- Co-planarity: 0.08mm, size dependent

Cover Component

- Pitch of dimples: 3mm min
- Material: Stainless steel, galvanized steel, pre-plated CRS & aluminum
- Material thickness: 0.08mm min
- Inner bending radius: 0.10mm min

* Other material may be available, please consult with your TE representative.

CUSTOM BLS DESIGN SPECIFICATIONS

We offer a wide array of customized solutions for various applications, so we have created this form to help you gather the requirements we need to better understand your customized project(s).

Prototype schedule and quantity:	Desired material, plating and thickness:		
Mass production schedule and projected quantity:	Drawings needed:		
Program Life:	2D print Both		
Size requirements:	Co-planarity requirement:		
Length:	Frequency to be shielded:		
Width:	Engineering Point of Contact:		
Height:	Name:		
Access needed beneath shield? 🗌 Yes 🗌 No	Email:		





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