HERMAPHRODITIC CONNECTORS WITH GOLD PLATING

TE Connectivity (TE) introduces the standard Hermaphroditic Blade and Receptacle connectors with selective gold plating. The gold plated connectors are suitable for harsh environments where moisture and high vibration may be present. The Wire-to-Board connectors are also available that accept select gold-plated contacts and mates to the new part number series of the surface mount Hermaphroditic Blade and Receptacle board to board connectors. The connector provides power to the first LED printed circuit board and between adjacent LED printed circuit boards in a linear lighting fixture.



Applications

- LED lighting modules
- LED lighting strips
- Channel lettering
- Commercial refrigeration LED lighting
- · Rail, bus and airplane LED lighting

Electrical

• Operating Current: 6 AMPS

• Operating Voltage: 125VAC/125VDC

• Dielectric Withstanding

Voltage: 1500VAC

Mechanical

• Operating Temperature: $-40^{\circ}\text{C} \text{ to } +105^{\circ}\text{C}$

• Mating cycles: 10

Product Specifications

• Product Specification: 108-2342 for

Hermaphroditic Products

• Application Specification: 114-13225 for Hermaphroditic

Board-to-Board Products

• Application Specification: 114-13252 for Hermaphroditic

Wire-to-Board Products

Materials

• Housing: UL 94V0 high temperature

resistant thermoplastic

• Contact: Gold over Nickel at separable

interface (tin over Nickel for the remainder)

Key Benefits

- Available in 2, 4 and 6 positions to connect power, signal and data
- Board to board connectors mate to themselves vertically and horizontally to simplify assembly and service
- Wire to board connectors provide positive latching
- Low profile, flat design with rounded corners eliminate shadowing
- Tape and reel packaged product is compatible with high speed SMT and reflow solder process
- Select gold plating eliminates the potential for fretting corrosion caused by micro motion in harsh LED lighting environments



Product Selection Information

BOARD-TO-BOARD PRODUCTS

	Housing Features	Positions	Housing Color	TE Part Number
#25.13m	Standard	2	Natural	<u>2213613-1</u>
			Black	<u>1-2213613-1</u>
		4	Natural	2213613-2
			Black	1-2213613-2
		6	Natural	2213613-3
			Black	<u>1-2213613-3</u>
	with Single Latch	2	Natural	<u>2213614-1</u>
# 15±100			Black	<u>1-2213614-1</u>
700 37		4	Natural	2213614-2
			Black	1-2213614-2
		6	Natural	2213614-3
			Black	<u>1-2213614-3</u>
812.1.38 Marie 113	with Dual Latch	2	Natural	<u>2213877-1</u>
R. C.			Black	1- 2213877-1
	with Post	2	Natural	<u>2213616-1</u>
953.1 us			Black	<u>1-2213616-1</u>
The second second		4	Natural	2213616-2
			Black	1-2213616-2
		6	Natural	2213616-3
			Black	<u>1-2213616-3</u>
A SALLEY AND THE SALL	with Latch and Post	2	Natural	<u>2213617-1</u>
			Black	<u>1-2213617-1</u>
		4	Natural	2213617-2
			Black	1-2213617-2
		6	Natural	2213617-3
			Black	1-2213617-3

WIRE-TO-BOARD

Contact Style	TE Part Number	
Wire-to-Board Socket Contact, Select-Gold	<u>2213373-1</u>	
Wire-to-Board Blade Contact, Select-Gold	<u>2213374-1</u>	

Housing Features	Positions	Housing Color	TE Part Number
with Single Latch	2	Natural	<u>2058299-1</u>
		Black	<u>1-2058299-1</u>
	4	Natural	2058299-2
		Black	1-2058299-2
	6	Natural	2058299-3
		Black	<u>1-2058299-3</u>
with Dual Latch	2	Natural	<u>2213709-1</u>
		Black	1-2213709-1



Dimensions 7.10 [0.280] TYP 1.00 2.00±0.10 [0.079±0.003] TYP Ø0.800^{+0.050} 2.00±0.10 [0.079±0.003] TYP [0.0315+0.0019] 12.25 [0.482] TYP 4.75 [0.187] REF 1.50±0.10 [0.059±0.003] 3.50±0.08 [0.138±0.003] · 1.95 [0.077] REF 7.10 [0.280] 2 Position 4 Position 6 Position 4.00 [0.157] REF . 8.70 [0.343] 0.10 ш 0.13 [.005] MAX PERMISSIBLE MISALIGNMENT BETWEEN BOARD EDGE AND CONNECTOR FACE 1.95 [0.077] [0.077] [0.075] REF CENTER OF GRAVITY 0.80 [0.032] REF - 1.00 [0.039] 4.13 [0.163] ₿ 2 Position 4 Position 6 Position 24.70 [0:972] 1.60 [0.063] REF 16.50 [0.650] 15.50 [0.610] 鬈 20.40 [0.803] DIM A 12.40 [0.488] 28.40 [1.118] 0.05 ΗВ 髻 Z 霆 2 Position 4 Position 6 Position I.00 [0.039] TYP 19.50 w.Wo 2 Position

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