

# Board to Board

**Amphenol**  
Commercial Products



## Features:

- Strong signal integrity support.
- High contact force ensures mating reliability.
- Polarization key at pin edge.
- Robust mating providing strong connection.
- Optimized high speed performance at all stacking height can meet SAS, SAS-3, 12 GT/s and is in process in SAS-4, 24 GT/s, electrical requirements.
- 8, 15, 30 u" gold plating improves contact resistance, and prevents corrosion.
- Caps & mylar options are available. Positioning bosses for correct board orientation.
- 0.8mm BTB connectors at all stacking heights can meet the PCI Express GEN3, 8GT/s & GEN4, 16GT/s, electrical requirements.

## Overview:

Amphenol's High-Speed Board to Board connectors provide high contact force reliability ensuring strong connectivity, forced insertions, and removals. Design flexibility enables 13 types of stack heights, with 20 to 200 position options available for high density applications.



## Applications:

- High end computers
- Test card and card extenders
- Routers
- Servers
- IP phone
- Telecom/Datacom equipment
- Test and Measurement Equipment



To learn more about BTB connectors:

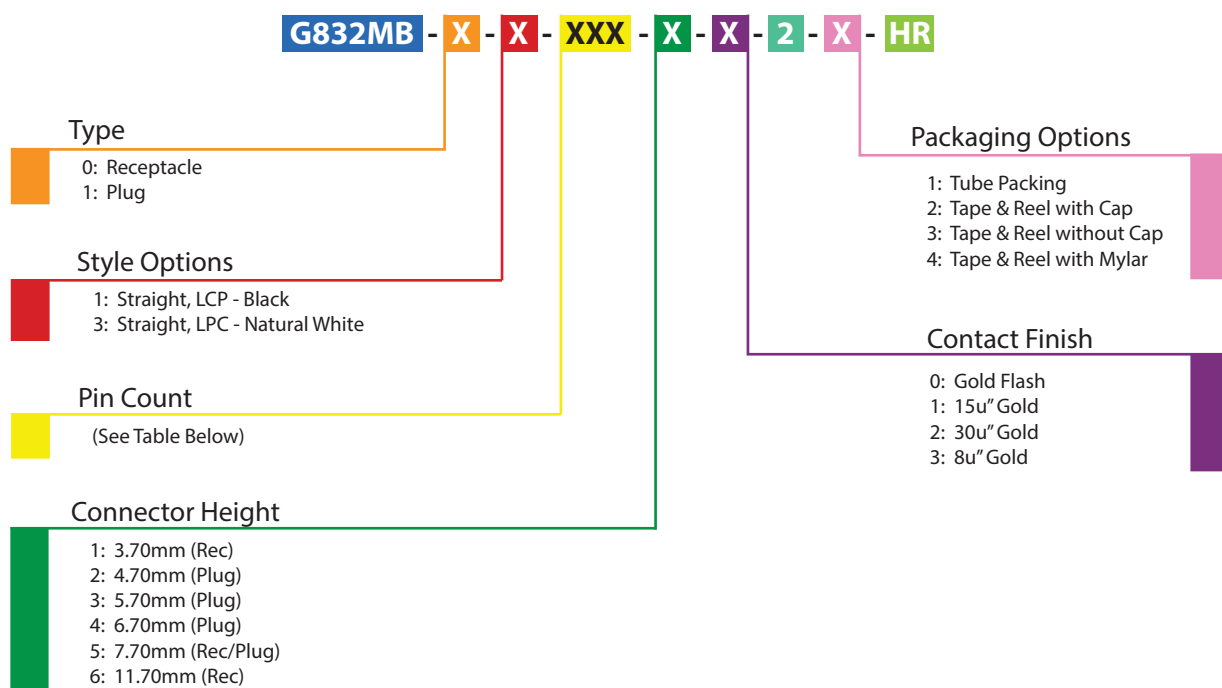
web: [amphenolcanada.com](http://amphenolcanada.com)

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## Technical Characteristics:

| Material |                                                                                                                                                                      |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Housing  | High Temperature Thermoplastic, UL 94V-0,<br>Colour - Optional                                                                                                       |
| Contact  | Copper Alloy, 0.15mm Thickness,<br>Selective Gold Plated on Contact Area,<br>100u" Min. Matte Tin Plated on Soldering Tail,<br>50u" Min. Nickel Under-Plated Overall |
| Cap      | Stainless Steel, 0.20mm thickness                                                                                                                                    |

## Ordering Information:



| Pin Count  |     |     |     |     |     |     |    |    |    |    |       |       |
|------------|-----|-----|-----|-----|-----|-----|----|----|----|----|-------|-------|
| Receptacle | 200 | 180 | 160 | 140 | 120 | 100 | 80 | 64 | 60 | 30 | 40    | 20    |
| Plug       | 200 | 180 | 160 | 140 | 120 | 100 | 80 | 60 | 40 | 20 | ----- | ----- |

\* Please visit [amphenolcanada.com](http://amphenolcanada.com) to find drawings for other products in this series.

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