

STRADA WHISPER ABSOLUTE CONNECTORS

PRODUCT DESCRIPTION

TE Connectivity's (TE) new STRADA Whisper Absolute backplane connectors enable 112G network architectures. The new design minimizes skew with noise isolation and 360 degree grounding capabilities. These products are manufactured with a fully automated assembly process, helping reduce operating cycle times, operating cost and enhance machine productivity. The backward-compatible interface enables a reduction in mechanical design churn when the focus is to only upgrade internal components.

APPLICATIONS

- Data Center
- Servers and Storage
- Wireless Infrastructure (e.g., 5G BBU)
- Optical Transport
- Core routing
- Switching
- Networking
- Base Stations
- Hardware acceleration
- Satellite

BENEFITS

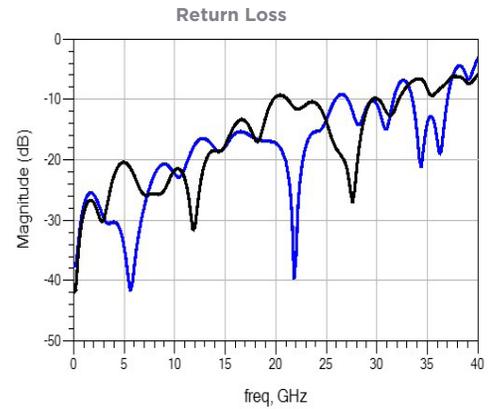
- Enable 112G Network Architecture - New footprint design provides excellent cross talk, return loss, insertion loss performance to address 112G channel requirements. Provides quad-routability for signal traces. The mating interface is backward-compatible to existing 56G STRADA Whisper portfolio.
- Design for 112G PAM-4 backplane applications - Best in class crosstalk and insertion loss performance. 92 Ohm impedance supporting both 85 Ohm and 100 Ohm applications. Minimize skew with noise isolation, 360 degree grounding design. 1.75 mm wipe length, ensuring acceptable electrical performance with 1.0mm of un-mate condition.
- Cost effective solution- Backward-compatible mating interface reduces engineering design effort when upgrading from 56G to 112G system. Manufactured with fully automated assembly process helping reduce operating cycle times, operating cost and enhance machine productivity.

STRADA WHISPER ABSOLUTE CONNECTORS

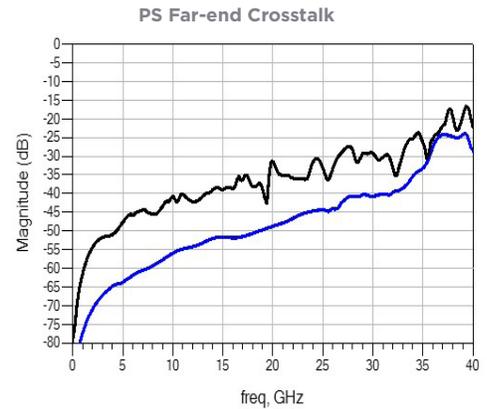
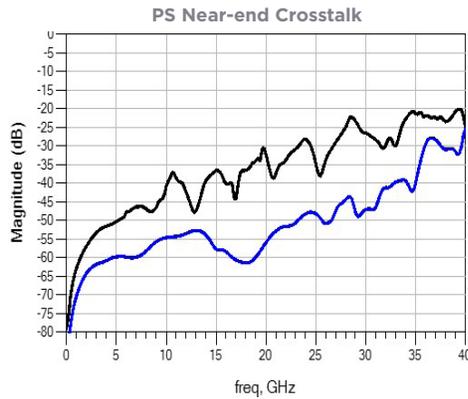
PRODUCT SPECIFICATIONS

- Data Rate: 112G PAM-4
- Impedance: 92 Ohm impedance supporting both 85 Ohm and 100 Ohm applications
- PCB Termination: Press-fit
- Electrical:
 - Signal LLCR Max Initial: 300 M-Ohm
 - Insulation Resistance: 1000 M-Ohm min
 - Voltage Rating: 80 Vac
 - Current Rating: 0.3A per contact
- Mechanical:
 - Wipe Length: 1.75 mm, 1mm un-mate
 - Mating Force: 1.90 N max per differential pair including ground
 - Unmating Force: 0.55 N min per differential pair including ground
 - Press-fit insertion force: 17.8 N max per contact
- Application Tooling: Yes, required for this press-fit product

STRADA Whisper Connector to STRADA Whisper Absolute Connector Evolution



Crosstalk performance improves 10+ dB at 112G PAM-4 Nyquist (28GHz)



Graph Key

STRADA Whisper V1 & R connector

STRADA Whisper Absolute connector

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04/21 1415 Original