



QSFP+ Fine Wire 33AWG Cable Assemblies

TE has expanded the QSFP+ cable assembly product family to include options that solve a number of data communication cabling issues. In addition to the standard 30, 28 and 26AWG QSFP+ 10 Gb/s TurboTwin product offering, TE offers QSFP+ assemblies with fine wire TurboTwin 33AWG 8-pair cable. This fine wire bulk cable satisfies the need for ultra-thin, light weight and highly flexible passive cabling solutions in high density intra-rack applications.

APPLICATIONS

- Switches
- Servers
- Routers
- Storage

STANDARDS

- 40GbE
- InfiniBand QDR
- Fibre Channel
- SFF 8635
- Serial Attached SCSI (SAS)

FEATURES AND BENEFITS

- Supports aggregate data rates of 40 Gb/s
- 3X port density over SFP
- Optimized design to minimize insertion loss and cross talk
- Enhanced EMI suppression
- 33AWG fine wire –more flexible, easier to route, lighter weight, and achieves better airflow
- ½ meter through 2.5 meters
- Uses Madison Cable brand TurboTwin parallel pair bulk cable
- RoHS compliant

ELECTRICAL / MECHANICAL

- Impedance: 100Ω ± 10Ω
- Data Rate: 10Gbps
- Durability: 100 cycles minimum
- Latch Retention Force: 90N maximum
- Outside Cable Diameter: 4.6mm (33AWG)

ENVIRONMENTAL

- Operating Temp: 0° to 70°C
- Storage Temp: -40° to 80°C
- Safety Certifications: RoHS compliant, UL Type CL2, CSA Certified

MATERIALS

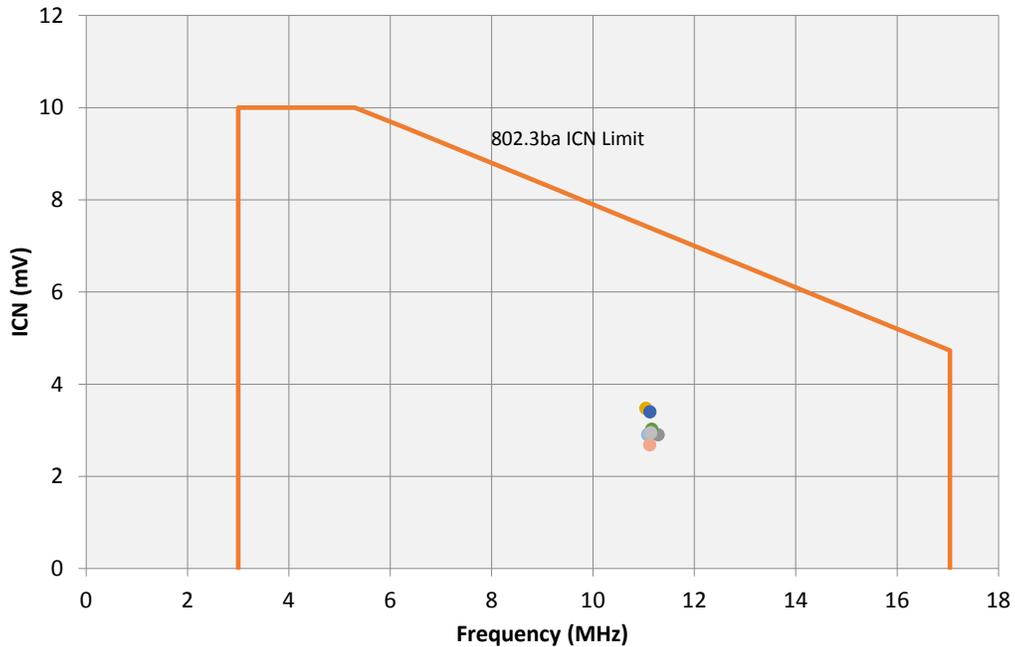
- PCB: SOLA FR-408HR
- Contact: 30u Gold plated contact pads
- Backshell: Tin plated zinc diecast
- Pull tab: Molded thermoplastic
- Bulk cable: Flexible PVC jacket, Aluminum/poly tape shielded pairs, solid silver plated copper conductor

PRODUCT OFFERING

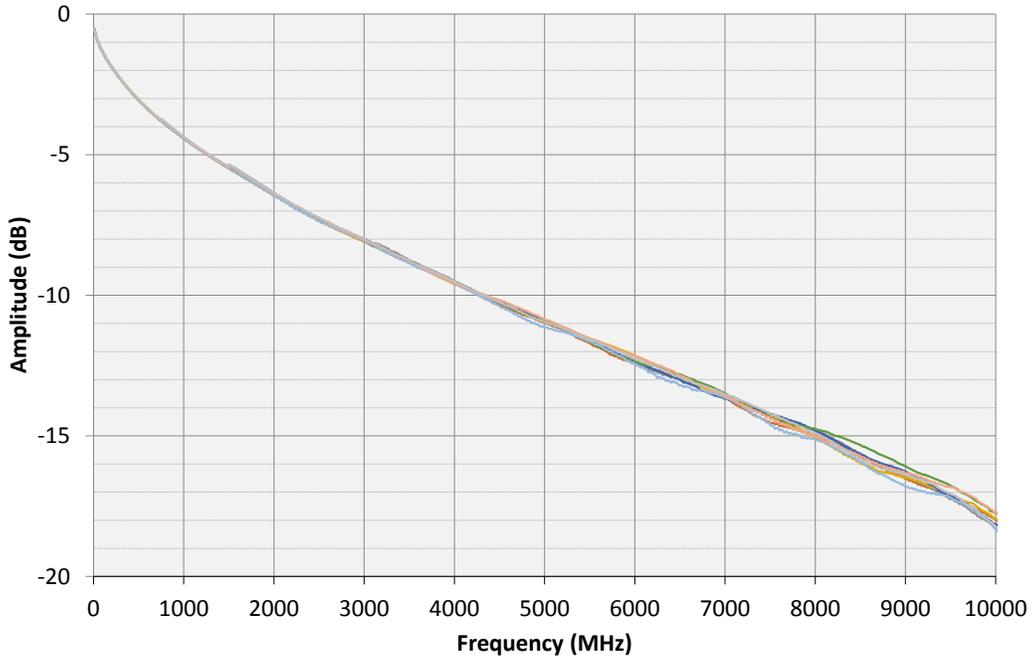
Part Number	Description
3-2053638-0	QSFP+ Passive Assembly 33AWG 0.5m
3-2053638-1	QSFP+ Passive Assembly 33AWG 1.0m
3-2053638-2	QSFP+ Passive Assembly 33AWG 1.5m
3-2053638-3	QSFP+ Passive Assembly 33AWG 2.0m
3-2053638-4	QSFP+ Passive Assembly 33AWG 2.5m

SIGNAL INTEGRITY PLOTS

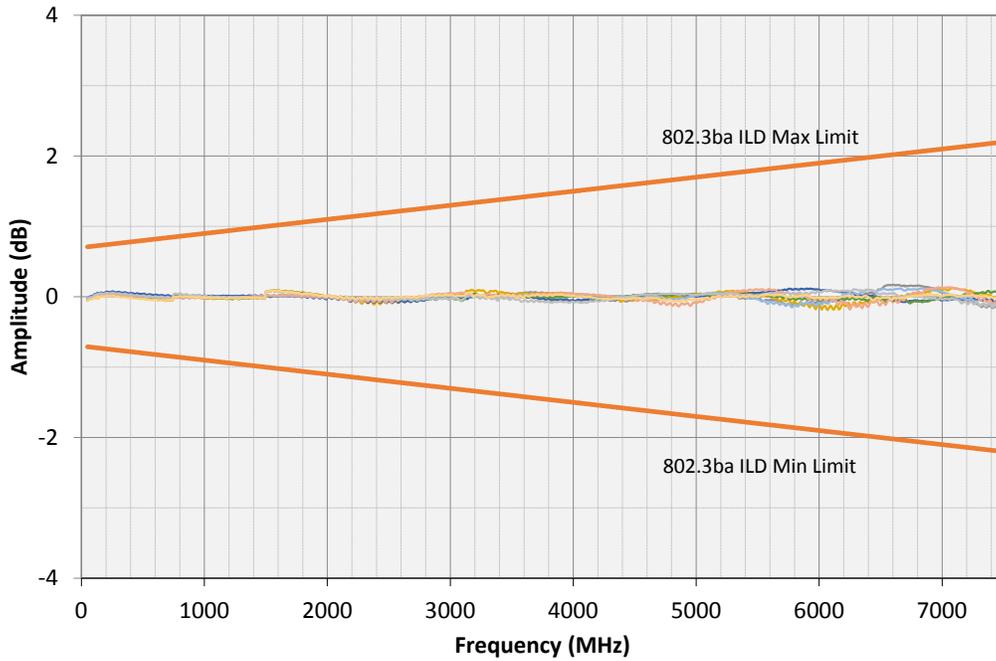
Integrated Crosstalk Noise of 2 Meter 33AWG QSFP+ Assembly (PN 3-2053638-3)



Insertion Loss of 2 Meter 33AWG QSFP+ Assembly
(PN 3-2053638-3)



Insertion Loss Deviation of 2 Meter 33AWG QSFP+ Assembly
(PN 3-2053638-3)



FOR MORE INFORMATION

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