Stewart Connector

QSFP Series

Connectors, Cages & Cable Assemblies

Stewart Connector's QSFP-DD cages are constructed from a robust metal alloy, ensuring the secure placement of the QSFP module's electrical and optical components. Additionally, the cage aids in thermal management, maintains signal integrity, and minimizes interference.

The high-speed I/O surface mount card edge connector features 76 gold plated pins, and operates at a temperature range of -40°C to +85°C, supporting aggregate data rates of 400 Gbps.

Our QSFP-DD passive copper cable assembly includes eight differential copper pairs, providing four data transmission channels with speeds up to 56 Gbps (PAM4) per channel. It complies with 400G Ethernet and InfiniBand Enhanced Data Rate (EDR) standards. This 400G copper cable assembly is available in wire gauges 30 AWG and 28 AWG and features low insertion loss and minimal cross talk.

Features & Benefits

- High-Speed I/O Card Edge Connector with 76 Pins
- Stainless steel press fit 1x1 cages with EMI springs (with or without heat sink)
- Cage Temperature Range: -40°C to +85°C
- 400G copper cables
- Cable Temperature Range: 0°C to +70°C
- Supports aggregate data rates of 400 Gbps
- Optimized construction to minimize insertion loss and cross talk
- EEPROM provides information about the cable to the host system
- RoHS Compliant

Applications

- Networking Devices – Switches, Patch Panels
- Computing Devices – Servers
- Data Center Interconnections
- Cloud Computing and Artificial Intelligence (AI)
- High Density Networks

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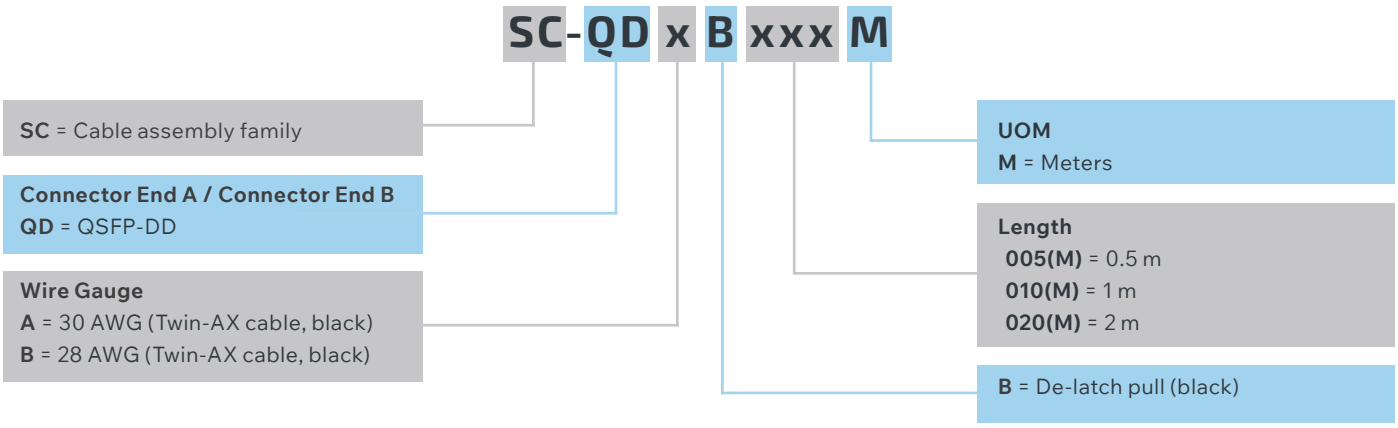
Connectors

Part Number	Port Configuration	Mounting Style	Orientation	Gender	LED
SS-79300-003	1x1	PCB Mount	Right Angle	Female	No

Cages

Part Number	Port Configuration	Termination Method to PCB	EMI Springs	Heat Sink	Light Pipes
SS-79300-001	1x1	Press-Fit	Yes	No	No
SS-79300-002	1x1	Press-Fit	Yes	Yes	No

Cable Assemblies



Part Number	Connector End A	Connector End B	Length	Wire Gauge
SC-QDAB005M	QSFP-DD	QSFP-DD	0.5 m	30 AWG
SC-QDAB010M	QSFP-DD	QSFP-DD	1.0 m	30 AWG
SC-QDBB020M	QSFP-DD	QSFP-DD	2.0 m	28 AWG

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