



Achieve high speed without the high costs with Belden's QSFP+ Direct Attach Copper (DAC) assemblies. These solutions are designed and tested to perform with a wide range of industry equipment at a significantly lower cost than standard high-speed assemblies, reducing operating costs for years to come. Available in Q to Q and QSFP+ to breakout styles.



BENEFITS

- Significant cost savings versus traditional fiber optic solutions
- Power savings of up to 50% versus traditional twisted pair copper
- Compatible with a wide range of industry equipment, including Cisco, Juniper and Dell



FEATURES

- Manufactured with Belden Lightskew™ Series twinax cables
- Easy pull-to-release latching mechanism for high-density deployments
- Available in generic or Cisco-compatible EEPROM



KEY APPLICATIONS

- 40G Ethernet
- Top of Rack (ToR) switching
- Middle of Row (MoR) switching

CABLE ASSEMBLY

Characteristics	Specifications
Operating Temperature	0° to +70° C
Storage Temperature	-40° to +80° C
Application	Ethernet 1G,10G and 40G InfiniBand SDR,DDR and QDR FibreChannel
Difference Wave form Distorsion Penalty (dWDP)	6.75 dB max
VMA Loss (L)	4.4 dB max
Differential Ouput / Input Reflection Coefficient (SDDxx)	Meets/Exceeds SFF-8431
Common Mode Ouput / Input Reflection Coefficient (SCCxx)	Meets/Exceeds SFF-8431
VMA Loss to Crosstalk Ratio	32.5 dB min
Differential to Common Mode Coefficient (SCDxx)	Meets/Exceeds SFF-8431
Impedance	100 ohms +/- 10 ohms
Intra-Pair Skew	<=15 ps/m

CONNECTORS

Characteristics	Specifications
Backshell Material	Nickel Plated Zinc Alloy Diecast
Electrical Contact Material	Gold Plated Contacts
Latch Mechanism	Pull to Release
Wire Terminations	Laser-Cut Wires & Temperature Controlled Welding
Contact Resistance	50 mohms
Insulation Resistance	1000 mohms
Dielectric Withstanding Voltage	300 V
ESD	1 kV (high-speed contacts) 2 kV (low-speed contacts) 15 kV (air discharge to module) 8 kV (direct discharge to module)
Durability (Insertion/Extraction)	100 cycles
Insertion Force to Cage	40 N max
Withdraw Force from Cage	30 N max
Cable Retention Force	90 N min
Cable Flexing	100 cycles min
UL Rating	UL94-V0
Physical Dimensions	SFF-8661
Electrical Standards	SFF-8431, SFF-8679

ORDERING INFORMATION

Length	Cable	AWG	Belden Part Number "Generic EEPROM"	Belden Part Number "CISCO Compatible"
QSFP+ Direct Attach Copper Cable Assemblies, 40Gb/s				
0.5 m	QSFP+ 8-pairs Belden Lightskew	30	QSSFP-P00M5-1	—
1 m	QSFP+ 8-pairs Belden Lightskew	30	QSSFP-P01M0-1	QSSFP-P01M0-2
2 m	QSFP+ 8-pairs Belden Lightskew	30	QSSFP-P02M0-1	—
3 m	QSFP+ 8-pairs Belden Lightskew	30	QSSFP-P03M0-1	QSSFP-P03M0-2
5 m	QSFP+ 8-pairs Belden Lightskew	26	QSSFP-P05M0-1	QSSFP-P05M0-2
QSFP+ to 4/SFP+ Breakout Direct Attach Copper Cable Assemblies, 4x10Gb/s				
0.5 m	4x SFP+ 2-pairs Belden Lightskew	30	QSSFP-P00M5-1	—
1 m	4x SFP+ 2-pairs Belden Lightskew	30	QSSFP-P01M0-1	QSSFP-P01M0-2
2 m	4x SFP+ 2-pairs Belden Lightskew	30	QSSFP-P02M0-1	—
3 m	4x SFP+ 2-pairs Belden Lightskew	30	QSSFP-P03M0-1	QSSFP-P03M0-2
5 m	QSFP+ 8-pairs "Octopus" Belden Lightskew	26	QSSFP-P05M0-1	QSSFP-P05M0-2

For more information, call
1.800.BELDEN.1 (1.800.235.3361)
 or visit www.belden.com

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