

S10GB-CU

SFP+ Copper Twinax cable Passive DAC 10G

1. Product overview

GLOBALfiber S10GB-CU is a passive direct attach copper cable assembly for short-distance host interconnection.

2. Key features

SFP+ to SFP+; passive copper twinax; up to 10 Gb/s. Power: <0.5 W.

3. Applications

10GbE; 1/2/4/8G Fibre Channel; InfiniBand QDR/DDR/SDR; SAN and data center links.

4. Technical data

Parameter	Specification	Parameter	Specification
Min. Dielectric Withstand Voltage	300 VDC	Bend Radius	5X Cable OD
Insulation Resistance	1000 Mohms	Differential impedance	24AWG: 100±5ohm @ TDR; 26AWG: 100±5ohm; 28AWG: 100±5ohm; 30AWG: 100±5ohm @ TDR
Current Rating	0.5 Amp Min/Signal Contact	Mutual capacitance	All listed gauges: 14 pF/ft nominal
Operating Temperature	0 to 70 °C	Time delay	24AWG: 1.31ns/ft nominal, (4.3ns/m) nominal; 26AWG: 1.35ns/ft nominal; 28AWG: 1.35ns/ft nominal; 30AWG: 1.35ns/ft nominal, (4.3ns/m) nominal
Flammability Rating	UL 94 V-0	Time delay skew (within pairs)	24AWG: 80ps/10m maximum; 26AWG: 120ps/8.5m maximum; 28AWG: 120ps/7m maximum; 30AWG: 50ps/5.5m maximum
Green Features	RoHS, Lead-Free	Time delay skew (between pairs)	24AWG: 350ps/10m maximum; 26AWG: 500ps/8.5m maximum; 28AWG: 500ps/7m maximum; 30AWG: 350ps/5.5m maximum
Shield	Braid/Foil	Attenuation	24AWG: 10dB/10m maximum @ 1.25Ghz; 26AWG: 10dB/8.5m maximum @ 1.25Ghz; 28AWG: 10dB/7m maximum @ 1.25Ghz; 30AWG: 8.4dB/5.5m maximum @ 1.25Ghz
Marking	Mfg Name, Part#, Date Code	Conductor DC Resistance	24AWG: 0.026ohm /ft maximum @ 20°C; 26AWG: 0.04ohm /ft maximum @ 20°C; 28AWG: 0.06ohm/ft maximum @20°C; 30AWG: 0.01ohm/ft maximum @20°C
Backshell Material	Nickel-Plated Zinc Diecast	Conductors (two pair)	24 / 26 / 28 / 30 AWG solid silver-plated copper, matching cable gauge
Contact Material	PCB with Gold-Plated Pads	Outer diameter	24AWG: 6.0mm; 26AWG: 5.2mm; 28AWG: 4.7mm; 30AWG: 4.2mm
Latch	Positive Latching w/Pull	26AWG Solid, Silver plated copper	24AWG: 28AWG Solid, Silver plated copper; 26AWG: 30AWG Solid, Silver plated copper; 28AWG: 30AWG Solid, Silver plated copper
Insertion Force	30N Max		
Withdrawal Force	20N Max		
Retention Force	90N Max		
Durability	50 Cycles Min		
Conductor	Solid		
Wire Gauge	AWG30, AWG28, AWG26, AWG24		
Impedance	100± 5 ohms		
Cable OD	AWG 30 :4.2mm		
Cable OD (continued)	AWG 28 :4.7mm		
Cable OD (continued)	AWG 26:5.2mm		
Cable OD (continued)	AWG 24: 6.0mm		
Jacket Type	PVC		

5. Recommended operating conditions

Parameter	Specification
Power consumption	<0.5 W
Operating Case Temperature	Min: 0; Typ.: 25; Max: 70; Unit: °C
Relative Humidity	Min: 5; Max: 95; Unit: %
Supply Voltage	Min: 3.15; Typ.: 3.3; Max: 3.45; Unit: v
Data Rate Per Lane	Min: 1; Typ.: 10.5; Unit: Gbp/s

Simplified functional illustration - not to scale



S10GB-CU

6. Optical characteristics

Not applicable. This is a passive copper cable; optical wavelength, launch power and receiver sensitivity do not apply.

7. Digital diagnostics and management

Host identification depends on selected coding; no optical diagnostics apply to passive copper.

8. Safety and regulatory

SFP+ MSA; SFF-8431; improved pluggable form factor; RoHS / lead-free. Use ESD-safe handling and observe the stated cable bend limits.

9. Ordering information

Parameter	Specification
GLOBALfiber product number	S10GB-CU
Product description	SFP+ Copper Twinax cable Passive DAC 10G
Selectable lengths	0,5 m, 1 m, 1,5 m, 2 m, 2,5 m, 3 m, 4 m, 5 m, 7 m
Available coding	Arista, Cisco, Custom, Dell, Extreme, Fortinet, Generic, HP, Huawei, Juniper EX, NVIDIA-Mellanox(ETH)

Confirm equipment model, port mode and software version when ordering. Coding availability does not guarantee support for every platform or mode.

Cable variants documented in the technical source:

Parameter	Specification
0.5m, 1m, 1.5m, 2m, 2.5m, 3m	Data Rate: Up to 10.5G; Wire Gauge: AWG30; Connector Type: Passive Copper; Temp. Range: 0-70°C; Cable Jacket: PVC
4m, 5m, 6m, 7m	Data Rate: Up to 10.5G; Wire Gauge: AWG24; Connector Type: Passive Copper; Temp. Range: 0-70°C; Cable Jacket: PVC