

Cable Product Testing & Sample Report

Verified Performance. Documented Compliance.

Coolgear relies on advanced Total Phase equipment to rigorously validate every cable's continuity, DC resistance, and high-speed signal integrity to ensure uninterrupted data transmission for your most critical applications.



Our cables are tested beyond USB 3.2 Gen 1 minimum compliance thresholds:

- Ensured for a stable 5 Gbps data transmission in demanding environments
- Tested on professional-grade Total Phase equipment
- Validated to Reduce Operational Risk



Testing removes doubts of cable issues to avoid:

- Data corruption during high-speed transfers
- Intermittent disconnects caused by signal instability
- Voltage drop issues affecting powered devices
- Unexpected system downtime in critical installations



Compliance & Regulatory Support:

Coolgear designs and manufactures products to meet a range of regulatory and environmental requirements, including RoHS, REACH, and CE (where applicable). Documentation available upon request.

[Find the Cable for Your Next Install →](#)

Download Validation Documents at Coolgear.com

Many Coolgear cable configurations include downloadable test reports directly on our website. Additional documentation is being added as part of our ongoing expansion. If your selected cable's report is not yet listed, contact our team and we will provide validation documentation.

Designing in Coolgear? [Visit Coolgear.com](#) to download reports or request documentation tailored to your application.

Sample Test Report

Test Started: 2026-02-12 12:08:09

Test Status: Pass

Test Run Time: 12.28s

Test Profile: A-C / SS Gen1 / 3A / SI Test

for a Standard-A to Type-C cable that can support USB 3.1 Gen 1 (5 Gbps).

Requires all four SuperSpeed pairs and the USB 2.0 D+/D- pair. Signal integrity testing at 5 Gbps on the SuperSpeed pairs and 518 Mbps on the high-speed pair is performed.



Model No. [USB3-SLAC-3FT](#)



Continuity

Connector Orientation		
Port	Connector Type	Orientation
"U" Port	USB 3.1 Type-C	Normal
"D" Port	USB 3.1 Standard-A	Normal

V _{BUS} Voltage Reference		
	Voltage	Valid Range
✓	4.86 V	4.75 - 5.10 V

Power Shorts		
	Wires	Shorts
✓	V _{BUS} to GND	None
✓	CC to GND	None
✓	CC to V _{BUS}	None

Functional Signals		
	Wire	Present
✓	CC	Present
✓	V _{CONN}	Absent
✓	V _{CONN} Thru	Absent
✓	SBU	Absent
✓	DP/DM1	Present
✓	DP/DM2	Absent
	Wire	Present
✓	SOP'	Absent
✓	SOP''	Absent
✓	TX1	Present
✓	RX1	Present
✓	TX2	Absent
✓	RX2	Absent
✓	R _P	Present
✓	R _D	Absent

Physical Wiring		
	"D" Port Pin	"U" Port Pin
✓	DM1	DM1
✓	DP1	DP1
✓	DM2	No Connection
✓	DP2	No Connection
✓	SBU1	No Connection
✓	SBU2	No Connection
	"D" Port Pin	"U" Port Pin
✓	TX1	RX1
✓	RX1	TX1

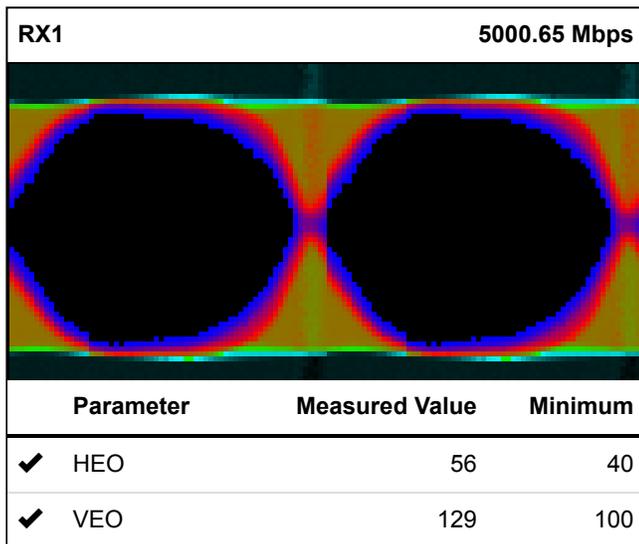
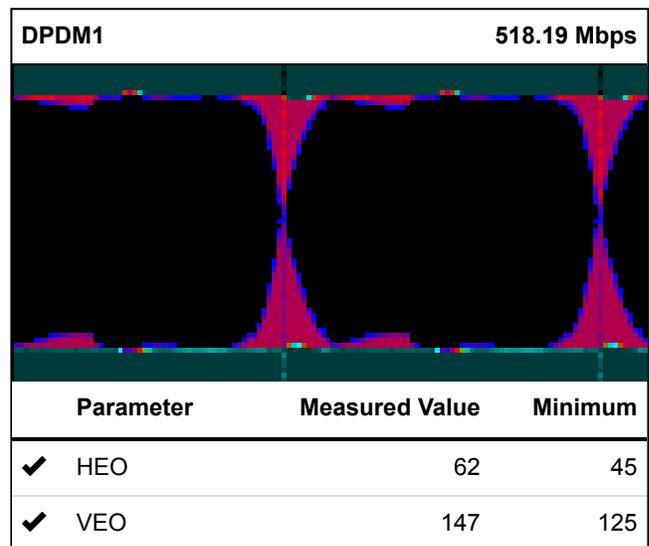
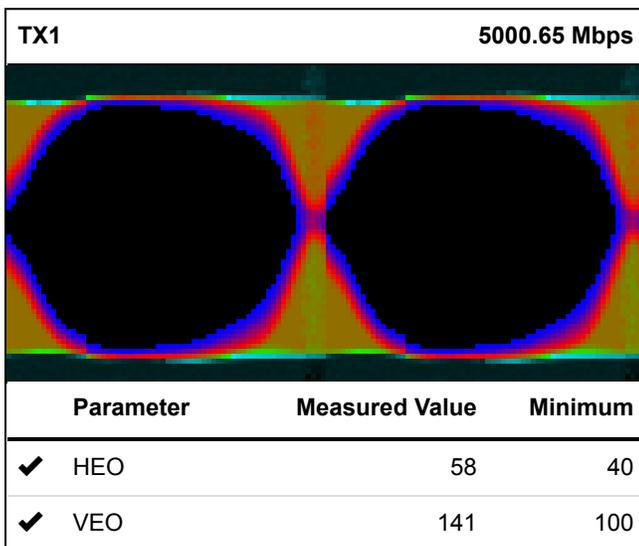
DC Resistance

Power Wires			
	Wire	Measured Value	Maximum
✓	GND	43.81 mΩ	83.00 mΩ
✓	V _{BUS}	80.49 mΩ	167.00 mΩ

GND Pins			
	Pin	Measured Value	Maximum
✓	U-A1	7.79 mΩ	40.00 mΩ
✓	U-A12	8.76 mΩ	40.00 mΩ
✓	U-B1	6.66 mΩ	40.00 mΩ
✓	U-B12	6.25 mΩ	40.00 mΩ

V _{BUS} Pins			
	Pin	Measured Value	Maximum
✓	U-A9	10.49 mΩ	40.00 mΩ
✓	U-B4	9.48 mΩ	40.00 mΩ
✓	U-B9	9.21 mΩ	40.00 mΩ
✓	U-A4	9.05 mΩ	40.00 mΩ

Signal Integrity



Equipment

Device Information	
Name	Value
Promira Serial Platform Serial Number	2416-620554
Advanced Cable Tester Serial Number	2468-191878
Hardware Version	0.93
Firmware Version	1.12
Web Version	1.12

Connector Test & Insertion Counts		
Port	Connector	Counts
Upstream	USB 3.1 Type-C	538
Downstream	USB 3.1 Type-C	663
Upstream Adapter	None	
Downstream Adapter	USB 3.1 Standard-A	166