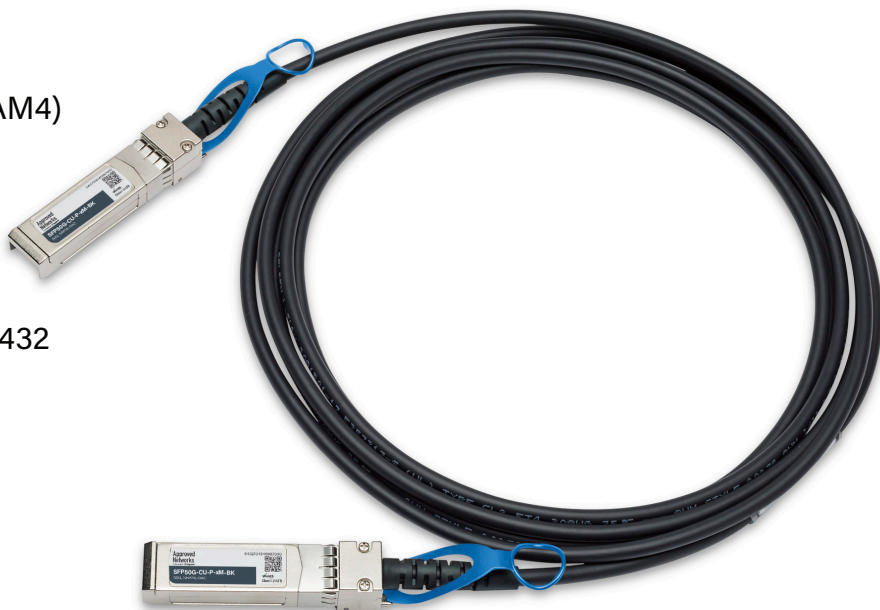


Features

- Up to 56Gb/s (Support 28GBaud/s PAM4)
- Up to 3 meter transmission
- Hot-pluggable SFP 20PIN footprint
- Compatible to SFP28 MSA and SFF-8432
- Compatible to IEEE802.3cd
- Power consumption <0.1 W
- Temperature Range: 0~ 70 °C
- RoHS Compatible



Applications

- 50G/25G Ethernet
- Infiniband QDR/FDR/EDR/HDR
- Switch / router / HBA
- Enterprise network
- Data Center Network

1. Recommended Operating Conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
Storage Temperature		-40		+85	°C
Operating Case Temperature	Tc	0		+70	°C
Power Supply Voltage	VCC3	3.14	3.3	3.47	V
Power consumption				0.1	W

2. High Speed Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Differential Impedance	TDR	90	100	110	Ω	
Insertion loss	SDD21	-16.06			dB	At 13.28 GHz
Differential Return Loss	SDD11			See 1	dB	At 0.05 to 4.1 GHz
	SDD22			See 2	dB	At 4.1 to 19 GHz

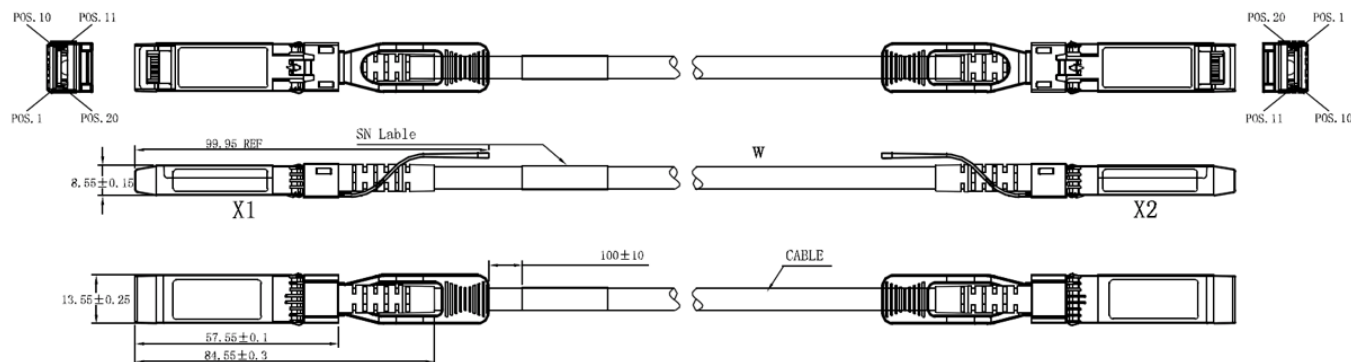
Common-mode to common-mode output return loss	SCC11 SCC22			-2	dB	At 0.2 to 19 GHz
Differential to common-mode return loss	SCD11 SCD22			See 3	dB	At 0.01 to 12.89 GHz
				See 4		At 12.89 to 19 GHz
Differential to common Mode Conversion Loss	SCD21-IL			-10	dB	At 0.01 to 12.89 GHz
				See 5		At 12.89 to 15.7 GHz
				-6.3		At 15.7 to 19 GHz

Notes:

1. Reflection Coefficient given by equation $SDD11(dB) < -16.5 + 2 \times \text{SQRT}(f)$, with f in GHz
2. Reflection Coefficient given by equation $SDD11(dB) < -10.66 + 14 \times \log_{10}(f/5.5)$, with f in GHz
3. Reflection Coefficient given by equation $SCD11(dB) < -22 + (20/25.78)*f$, with f in GHz
4. Reflection Coefficient given by equation $SCD11(dB) < -15 + (6/25.78)*f$, with f in GHz
5. Reflection Coefficient given by equation $SCD21(dB) < -27 + (29/22)*f$, with f in GHz

3. Mechanical Specifications

The connector is compatible with the SFF-8432 specification.



Length (m)	Cable AWG	Length (m)	Cable AWG
0.5	30	2	26
1	30	2.5	26
1.5	30	3	26

Note: External physical characteristics are subject to variation. This may include, but is not limited to, external case designs, pull tab colors and/or shapes, removal latch styles or colors, and label sizes and placement. These variations do not affect the function or characteristics of the transceivers.

4. Ordering Information

OEM	Part Number	OEM	Part Number
Arista	C-S50-S50-0.5M	Arista	C-S50-S50-1M
Arista	C-S50-S50-1.5M	Arista	C-S50-S50-2M
Arista	C-S50-S50-2.5M	Arista	C-S50-S50-3M
MSA	AN-SFP50G-P-0.5M	MSA	AN-SFP50G-P-1M
MSA	AN-SFP50G-P-1.5M	MSA	AN-SFP50G-P-2M
MSA	AN-SFP50G-P-2.5M	MSA	AN-SFP50G-P-3M

5. Contact Information

Tel: 800.590.9535

Web: <http://www.approvednetworks.com>