SFP10GB-CU-P

10GBASE, SFP+, Passive Copper Cable Assembly XXm



Features

- SFF-8431 Compliant
- Broadband serial data rate operation:10 Mbps to 12 Gbps
- Power Level I: 15 mW per cable end
- 100 Ohm differential impedance
- Retractable pin latch
- EEPROM signature
- Pull to Release latch design
- 360°cable braid crimp
- Enhanced EMI skirt design
- Color options for strain relief and pull tab
- Linear design for use with EDCs
- AC-coupled inputs and outputs
- 30AWG to 24AWG cable available

Applications

- 10 Gigabit Ethernet and Gigabit
- Ethernet (IEEE 802.3ae)
- Fiber Channel: 1, 2, 4, 8, and 10GFC
- Infiniband SDR, DDR, and QDR
- Fiber Channel over Ethernet (FCoE)
- Serial data transmission

1. Recommended Operation Conditions (Electrical)

Parameter	Symbol	Minimum	Typical	Max	Unit
Operating Temp.		0		70	°C
Input Voltage	VccT, VccR	1.8	3.3	5.5	Volts
Clock Frequency	fSCL			400	kHz
Maximum Power				15	mW
Maximum Average Current	Icc			4	mA
Data Rate		0.010		10.3125	Gbps

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2. WDP Specifications

Cable Gauge	Cable Length	WDPo (dB)	WDPi (dB)	dWDP
Spec Limit	--	--	--	6.75
30 AWG	3 meter	6.16	2.4	3.76
28 AWG	5 meter	7.49	2.4	5.09
24 AWG	7 meter	7.44	2.4	5.04

3. Time Domain

Item	Test Parameter	Specification (Proposal)
1	Intra-Skew*	30 ps Max
2	Impedance	100 +/- 10 Ohm
3	Insertion Loss* (SDD21)	a. 0.6GHz : -1.5 dB Max b. 1.25GHz : -2.15 dB Max c. 2.50GHz : -3.22 dB Max d. 3.25GHz : -3.95dB Max e. 5.0GHz : -5.52 dB Max

4. Mechanical Specifications

Parameter	Minimum	Typical	Maximum	Unit
Cable Diameter (24 AWG)		0.255		Inches
Bend Radius (24 AWG)	1.25			Inches
Cable Diameter (28 AWG)		0.185		Inches
Bend Radius (28AWG)	0.8			Inches
Cable Diameter (30 AWG)		0.175		Inches
Bend Radius (30 AWG)	0.7			Inches
Within Pair Skew			120	ps/10m
Cable Insertion Loss		10 d		B/10m
Bulk Cable Crosstalk			1	%
Bulk Cable Time Delay			4.3	ns/m
Cable Capacitance (intra-pair)			43	pF/m
Bulk Cable Impedance	95	100	105	Ohms

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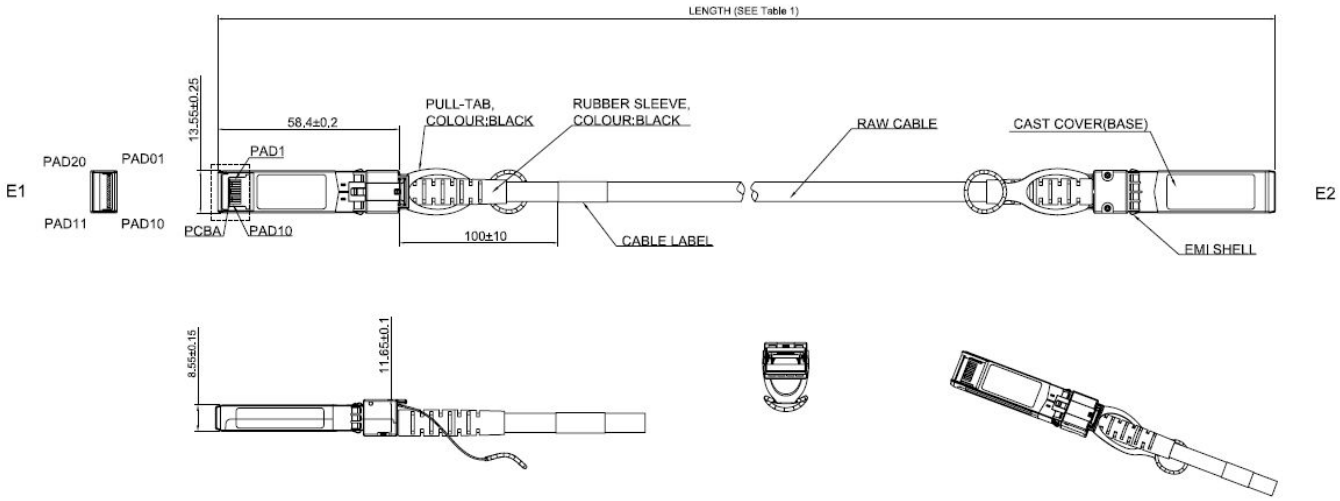
5. Mechanical Dimensions



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.

6. Ordering Information

OEM	Part Number	OEM	Part Number
Adtran	1179680G1-0.5M-L	Adtran	1710484F1-L
Adtran	1710484F1-1.5M-L	Adtran	1179830G1-L
Adtran	1179830G1-2.5M-L	Adtran	1710484F3-L
Adtran	1710484F5-L	Adtran	1710484F5-7M-L
Arista	CAB-SFP-SFP-0.5M-L	Arista	CAB-SFP-SFP-1M-L
Arista	CAB-SFP-SFP-1.5M-L	Arista	CAB-SFP-SFP-2M-L
Arista	CAB-SFP-SFP-2.5M-L	Arista	CAB-SFP-SFP-3M-L
Arista	CAB-SFP-SFP-5M-L	Arista	CAB-SFP-SFP-7M-L
Brocade	10G-SFPP-TWX-0.5-L	Brocade	10G-SFPP-TWX-0101-L
Brocade	10G-SFPP-TWX-01.5-L	Brocade	10G-SFPP-TWX-0201-L
Brocade	10G-SFPP-TWX-2.5M-L	Brocade	10G-SFPP-TWX-0301-L
Brocade	10G-SFPP-TWX-0501-L	Brocade	10G-SFPP-TWX-0701-L
Calix	100-01424-L	Calix	100-01793-L
Calix	100-01793-1.5M-L	Calix	100-01793-2M-L
Calix	100-01793-2.5M-L	Calix	100-01423-L
Calix	100-01423-5M-L	Calix	100-01423-7M-L
Cisco	SFP-H10GB-CU50CM-L	Cisco	SFP-H10GB-CU1M-L
Cisco	SFP-H10GB-CU1.5M-L	Cisco	SFP-H10GB-CU2M-L

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Cisco	SFP-H10GB-CU2.5M-L	Cisco	SFP-H10GB-CU3M-L
Cisco	SFP-H10GB-CU5M-L	Cisco	SFP-H10GB-CU7M-L
Dell	470-AAVK-L	Dell	470-AAVH-L
Dell	470-AAVH-1.5M-L	Dell	470-ABPS-L
Dell	470-ABPS-2.5M-L	Dell	470-AAVJ-L
Dell	470-AAVG-L	Dell	470-AAVI-L
Intel	XDACBL0.5M-L	Intel	XDACBL1M-L
Intel	XDACBL1.5M-L	Intel	XDACBL2M-L
Intel	XDACBL2.5M-L	Intel	XDACBL3M-L
Intel	XDACBL5M-L	Intel	XDACBL7M-L
Juniper	SFP-10GE-DAC-50CM-L	Juniper	SFP-10GE-DAC-1M-L
Juniper	SFP-10GE-DAC-1.5M-L	Juniper	SFP-10GE-DAC-2M-L
Juniper	SFP-10GE-DAC-2.5M-L	Juniper	SFP-10GE-DAC-3M-L
Juniper	SFP-10GE-DAC-5M-L	Juniper	SFP-10GE-DAC-7M-L
Mellanox	MC3309130-00A-L	Mellanox	MCP2100-X001A-L
Mellanox	MCP21J3-X01AA-L	Mellanox	MC3309130-002-L
Mellanox	MCP21J3-X02AA-L	Mellanox	MC3309130-003-L
Mellanox	MC3309124-005-L	Mellanox	MC3309124-007-L
MSA	LN-SFP-10G-P-50CM	MSA	LN-SFP-10G-P-1M
MSA	LN-SFP-10G-P-1.5M	MSA	LN-SFP-10G-P-2M
MSA	LN-SFP-10G-P-2.5CM	MSA	LN-SFP-10G-P-3CM
MSA	LN-SFP-10G-P-5M	MSA	LN-SFP-10G-P-7M
Palo Alto	PAN-SFP-PLUS-CU-0.5M-L	Palo Alto	PAN-SFP-PLUS-CU-1M-L
Palo Alto	PAN-SFP-PLUS-CU-1.5M-L	Palo Alto	PAN-SFP-PLUS-CU-2M-L
Palo Alto	PAN-SFP-PLUS-CU-2.5M-L	Palo Alto	PAN-SFP-PLUS-CU-3M-L
Palo Alto	PAN-SFP-PLUS-CU-5M-L	Palo Alto	PAN-SFP-PLUS-CU-7M-L