

Features

- SFF-8431 Compliant
- Broadband serial data rate oper 10 Mbps to 12 Gbps
- Power Level I: 15 mW per cable
- 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

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

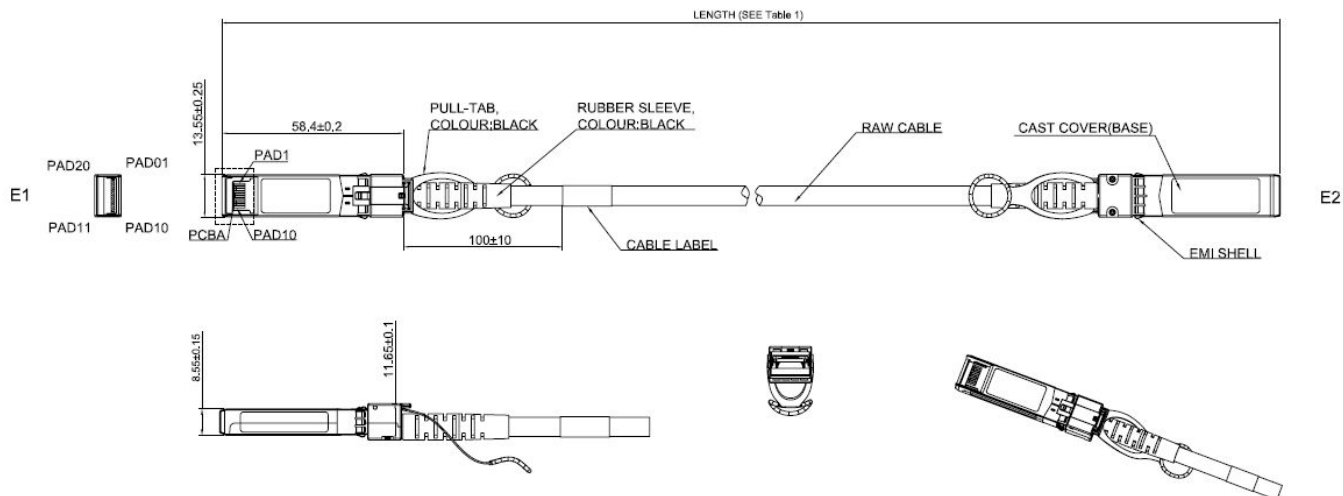
3. Time Domain

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

5. Mechanical Diagram



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
Calix	100-01423-5M-A	Arista	CAB-SFP-SFP-5M-A
Calix	100-01423-7M-A	Arista	CAB-SFP-SFP-7M-A
Calix	100-01423-A	Juniper	EX-SFP-10GE-DAC-1M-C1
Calix	100-01424-A	Juniper	EX-SFP-10GE-DAC-3M-C1
Calix	100-01793-1.5M-A	Juniper	EX-SFP-10GE-DAC-50CM-C1
Calix	100-01793-2.5M-A	Juniper	EX-SFP-10GE-DAC-5M-C1
Calix	100-01793-2M-A	Juniper	EX-SFP-10GE-DAC-7M-C1
Calix	100-01793-A	Mellanox	MC3309124-005-A
Brocade	10G-SFPP-TWX-0.5-A	Mellanox	MC3309124-007-A
Brocade	10G-SFPP-TWX-01.5-A	Mellanox	MC3309130-002-A
Brocade	10G-SFPP-TWX-0101-A	Mellanox	MC3309130-003-A
Brocade/Ruckus	10G-SFPP-TWX-0101-C1	Mellanox	MC3309130-00A-A
Brocade	10G-SFPP-TWX-0201-A	Mellanox	MCP2100-X001A-A
Brocade	10G-SFPP-TWX-0301-A	Mellanox	MCP21J3-X01AA-A
Brocade/Ruckus	10G-SFPP-TWX-0301-C1	Mellanox	MCP21J3-X02AA-A
Brocade	10G-SFPP-TWX-0501-A	Palo Alto	PAN-SFP-PLUS-CU-0.5M-A
Brocade	10G-SFPP-TWX-0701-A	Palo Alto	PAN-SFP-PLUS-CU-1.5M-A
Brocade	10G-SFPP-TWX-2.5M-A	Palo Alto	PAN-SFP-PLUS-CU-1M-A

MSA Champion ONE	10G-SFPP-TWX-P-0101-C1	Palo Alto	PAN-SFP-PLUS-CU-2.5M-A
Cisco	10GESPDC-01-CSC	Palo Alto	PAN-SFP-PLUS-CU-2M-A
HP	10GESPDC-01-HP	Palo Alto	PAN-SFP-PLUS-CU-3M-A
Aruba	10GESPDC-03-ARB	Palo Alto	PAN-SFP-PLUS-CU-5M-A
Cisco	10GESPDC-03-CSC	Palo Alto	PAN-SFP-PLUS-CU-7M-A
HP	10GESPDC-03-HP	Palo Alto	PAN-SFP-PLUS-CU-7M-A
MSA Champion ONE	10GSFP+E-DA01	Juniper	SFP-10GE-DAC-1.5M-A
MSA Champion ONE	10GSFP+E-DA03	Juniper	SFP-10GE-DAC-1M-A
Adtran	1179680G1-0.5M-A	Juniper	SFP-10GE-DAC-2.5M-A
Adtran	1179830G1-2.5M-A	Juniper	SFP-10GE-DAC-2M-A
Adtran	1179830G1-A	Juniper	SFP-10GE-DAC-3M-A
Adtran	1710484F1-1.5M-A	Juniper	SFP-10GE-DAC-50CM-A
Adtran	1710484F1-A	Juniper	SFP-10GE-DAC-5M-A
Adtran	1710484F3-A	Juniper	SFP-10GE-DAC-7M-A
Adtran	1710484F5-7M-A	Cisco	SFP-H10GB-CU0.5M-C1
Adtran	1710484F5-A	Cisco	SFP-H10GB-CU1.5M-A
Dell	470-AAVG-A	Cisco	SFP-H10GB-CU10M-C1
Dell	470-AAVH-1.5M-A	Cisco	SFP-H10GB-CU1M-A
Dell	470-AAVH-A	Cisco	SFP-H10GB-CU1M-C1
Dell	470-AAVI-A	Cisco	SFP-H10GB-CU2.5M-A
Dell	470-AAVJ-A	Cisco	SFP-H10GB-CU2M-A
Dell	470-AAVK-A	Cisco	SFP-H10GB-CU2M-C1
Dell	470-ABPS-2.5M-A	Cisco	SFP-H10GB-CU3M-A
Dell	470-ABPS-A	Cisco	SFP-H10GB-CU3M-C1
Molex	74752-1208-A	Cisco	SFP-H10GB-CU50CM-A
MSA	AN-SFP-10G-P-1.5M	Cisco	SFP-H10GB-CU5M-A
MSA	AN-SFP-10G-P-1M	Cisco	SFP-H10GB-CU5M-C1
MSA	AN-SFP-10G-P-2.5CM	Cisco	SFP-H10GB-CU7M-A
MSA	AN-SFP-10G-P-2M	MSA Champion ONE	SFP-H10GB-CU7M-C1
MSA	AN-SFP-10G-P-3CM	Broadcom/Ubiquiti	SFP10G-BCUB-CU-2M-C1
MSA	AN-SFP-10G-P-50CM	Broadcom/Ubiquiti	SFP10G-BCUB-CU-4M-C1
MSA	AN-SFP-10G-P-5M	Brocade/Intel	SFP10G-BRIN-CU-5M-C1
MSA	AN-SFP-10G-P-7M	Cisco/Intel	SFP10G-CSIN-CU-3M-C1
MSA Champion ONE	CAB-SFP-10GB-DACP-0.5M-C1	Cisco/Meraki	SFP10G-CSMK-CU-1M-C1
MSA Champion ONE	CAB-SFP-10GB-DACP-1M-C1	Cisco/Meraki	SFP10G-CSMK-CU-3M-C1
MSA Champion ONE	CAB-SFP-10GB-DACP-2M-C1	Intel	XDACBL0.5M-A
MSA Champion ONE	CAB-SFP-10GB-DACP-3M-C1	Intel	XDACBL1.5M-A

Arista	CAB-SFP-SFP-0.5M-A	Intel	XDACBL1M-A
Arista	CAB-SFP-SFP-1.5M-A	Intel	XDACBL2.5M-A
Arista	CAB-SFP-SFP-1M-A	Intel	XDACBL2M-A
Arista	CAB-SFP-SFP-2.5M-A	Intel	XDACBL3M-A
Arista	CAB-SFP-SFP-2M-A	Intel	XDACBL5M-A
Arista	CAB-SFP-SFP-3M-A	Intel	XDACBL7M-A

7. Contact Information

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