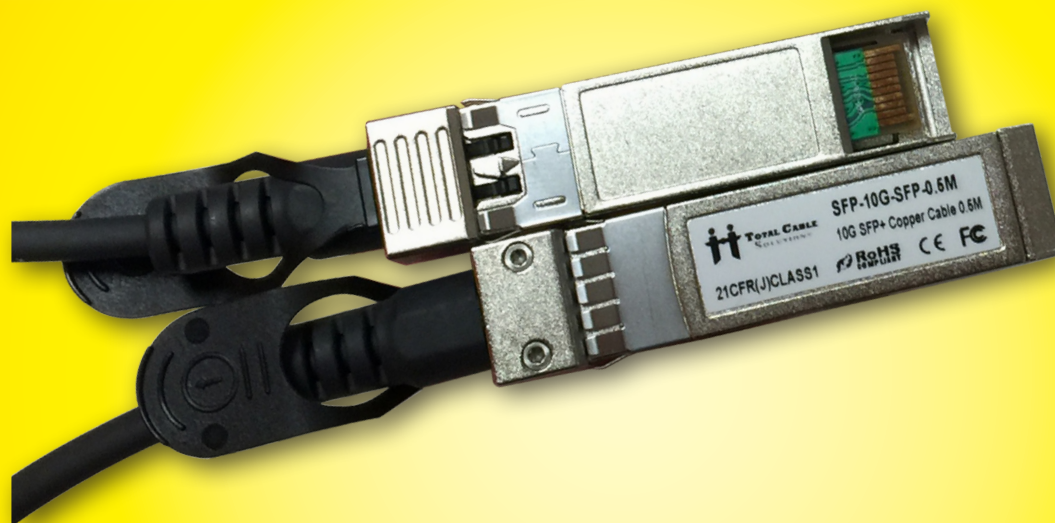




# DAC SFP+ Twinax CABLE



## Multi-vendor Support

Works with most brands of switches and equipment\*

## Low Power Consumption

Assists in making the passive copper cable assembly an economical solution for single rack or rack-to-rack applications

## High Quality

Final test assures that SFP+ cables meet the harshest external operating conditions conforming to the high-speed electrical requirements in industry specifications

## Hot Pluggable

## Standards Compliance

- Electrical: SFF-8431, SFF-8083
- Mechanical: SFF-8432
- EEPROM: SFF-8472
- RoHS Compliant

## Applications

- 10G Ethernet
- Infiniband, Fiber Channel 4G/8G/16G
- Sonet Multiplatform Support
- High Performance Computing Clusters
- High End Servers
- Metro Network Switch/Cross Connect

Cable Length	Wire Gauge	Cable Diameter	Mini Outer Radius
1-3m	30AWG	4.5mm	22.5mm
4-5m	28AWG	4.7mm	23.5mm
5-6m	26AWG	5.0mm	25mm
6-15m	24AWG	6.0mm	30mm

## Ordering Information

Part Number: SFP-10G-SFP-xxM

"xx" equals 2-digit length in meters (example: 01, 0.5, 10)

\*Compatible with industry standard SFP cages and switches (See TCS Compatibility Chart)

## Standards Compliance

Test Type	Test Item	Target	Reference
Electrical Characteristics	Differential mode return loss (SDDII)	$0.01 < f < 4.1; < -12 + 2 \cdot \sqrt{f}$ $4.1 < f < 11.1; < 6.3 + 13 \cdot \log_{10}(f/5.5)$ Where f is in GHz Measurements units: dB	SFF 8431
	Common mode return loss (SCCII)	$0.01 < f < 2.5; < -7 + 1.6(f)$ $2.5 < f < 11.1; < -3$ Where f is in GHz Measurements units: dB	SFF 8431
	NEXT	$< -26\text{dB}$ from 1MHz to 11GHz	
	Cable assembly impedance	100+/-100hm Rise time of 30ps (20~80%)	20~80%
	Insertion loss deviation	$-1\text{dB} \leq \text{ILD} \leq 1\text{dB}$ $300\text{KHz} \leq f \leq 6\text{GHz}$	
Environmental Characteristics	Operating temperature	-40~85°C	Cable operating temp. range
	Thermal shock	Electrical performance meets the specification requirement	EIA-364-32D. Method A. TC-1. -55 10 85C, 100 cycles, 15 min, dwells
	Cyclic temp. & humidity	Electrical performance meets the specification requirement	EIA-364-31 Method III, Test cond. A
	Salt spray	48 hours salt spraying after shell corrosive area less than 5%	EIA-364-26
	Temperature life	Performance meets the specification requirement	EIA-364-17B w/RH, damp heat 85C at 85% RH for 500hrs
Mechanical Characteristics	Mechanical Vibration	Performance meets the specification requirement	EIA-364-28E. 11 TC-VII, Test cond. D 15 minutes in X, Y, Z axis.
	Cable plug retention in cage	90N (min.)	No functional damage to cable plug below 90N. Per SFF-8432 Rev 5.0
	Cable plug retention in plug	90N (min.)	EIA-455-6B
	Mechanical shock	Performance meets the specification requirement	Clamp and shock per EIA-364-27B, TC-G, 3 times in 6 directions, 100g, 6ms
	Cable plug insertion	18N (max.)	SFF-8432 Rev 5.0
	Cable plug extraction	12.5N (max.)	SFF-8432 Rev 5.0
	Durability	50 time. No evidence of physical damage	EIA-364-09; perform plug & unplug cycles Plug and receptacle mate rate: 250 times/hr