

3M™ Cable Assemblies for SFP+ Applications

Low profile, highly routable, high-performance

Introduction

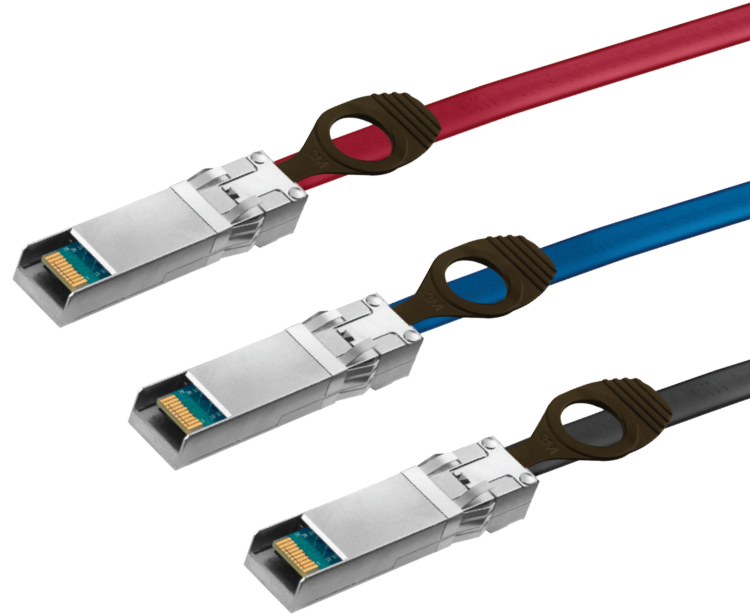
The 3M Cable Assembly for SFP+ Applications is a passive copper cable assembly which utilizes 3M™ Twin Axial Cable technology to create a highly-flexible, foldable, high-performance solution, with up to 10 Gbps for storage, networking, high-performance computing and data center applications.

The unique 3M core cable technology allows 3M cable assemblies to be low profile and lightweight while virtually eliminating high-frequency resonance, allowing the cable to fold and bend with minimal to no impact on performance. The cable's very small bend radius and low profile enables efficient routing in tight spaces to achieve even greater density and help improve airflow and front-of-rack cable organization.

3M passive copper cable assemblies for SFP+ applications are cost-effective I/O solutions offering excellent routability, low power and low latency.

Target Markets and Applications

- High-bandwidth switches, routers and servers
- Data Center networks
- Telecommunications equipment
- High capacity I/O storage applications
- Network Interface Cards (NICs)



Key Features and Benefits

- Made with highly-flexible, high-performance 3M Twin Axial Cable technology
- Delivers data rates up to 10 Gbps per channel with passive copper assemblies:
 - Up to 5 meters with 30 AWG
 - 4 to 7 meters with 26 AWG
- Compatible with standard SFP/SFP+ interface
- Designed to meet the following industry standard protocols:
 - SFF-8431 and SFF-8432
 - 10G Ethernet applications
- Excellent crosstalk and insertion loss performance
- Foldable and bendable with minimal to no performance impact
- Improved EMI shielding achieved with spring metal strap on the backshell
- EEPROM for cable information and system communications
- Configurable pull tab (on top or bottom of the cable) to enable belly-to-belly mounting
- Available in black, red or blue PVC jacket options
- RoHS 2011/65/EU compliant*

3M™ Cable Assemblies for SFP+ Applications

Product Information		
Specifications	Product	Available upon request (Doc#: PD-0077 for black jacket; Doc# PD-0114 for red or blue jacket)
	Signal Integrity Data	Available upon request
Materials	Cable Type	2 twin axial pairs w/copper foil EMI shield
	Cable Jacket	PVC; Color: Black , Red or Blue
	Backshell	Diecast zinc – Cu underplate w/Ni overplate
	EMI Girdle	Stainless steel
Electrical	Impedance (cable)	100Ω +/- 5 Ω
	Withstanding Voltage	300V DC
Environmental	Temperature Range	-30°C to +85°C (UL qualified)

Ordering Information

The following parts configurations are available on customer drawings 78-5100-2418-1 for black-jacketed cable and 78-5100-2649-1 for red or blue-jacketed cable. Please reference these drawings for additional details and availability.

141X-PXX-0X-X.XX

Code	Cable Configuration
1410-P17-00	30 AWG Black Jacket
1412-P20-06	30 AWG Red Jacket
1412-P21-06	30 AWG Blue Jacket
1410-P30-00	26 AWG Black Jacket
1412-P31-06	26 AWG Red Jacket
1412-P32-06	26 AWG Blue Jacket

Length Options

(in meters)

30 AWG up to 5 meters
26 AWG for 4 to 7 meters

* RoHS 2011/65/EU compliant: the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values (“MCVs”) in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, and/or in the recast RoHS Directive 2011/65/EU, Annex II, unless the substance is in an application that is exempt under the RoHS Directive 2002/95/EC, as amended, and/or under Annex III or Annex IV to the recast RoHS Directive 2011/65/EU. The MCVs are by weight in homogeneous materials. This information represents 3M’s knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.

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