

# 3M™ Cable Assemblies for SFP+ Applications

## Low Profile, Highly Routable, High-Performance

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 extremely 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 enables efficient routing in tight spaces to achieve even greater density and help improve airflow.

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

### Key Features and Benefits

- Made with highly-flexible, high-performance 3M Twin Axial Cable technology
- Up to 10 Gbps per channel transmission up to 5 meters with 30 AWG passive copper assemblies
  - Passive solutions >5 meters in development
- Compatible with standard SFP/SFP+ interface
- Designed to meet the following industry standard protocols:
  - SFF-8431
  - 10 Gigabit Ethernet (10 GBASE-CU / IEEE 802.3ae)
  - 8G Fibre Channel
  - 10G Fibre Channel over Ethernet
- 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
- PVC / halogen-free\* jackets
- Available with low-profile (flat) cable; round version coming soon
- RoHS compliant\*\*



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### Target Markets and Applications

- Telecommunications Equipment
- High Capacity I/O Storage Applications
- Networking
- High-Bandwidth Switches, Routers and Servers
- Network Interface Cards (NICs)



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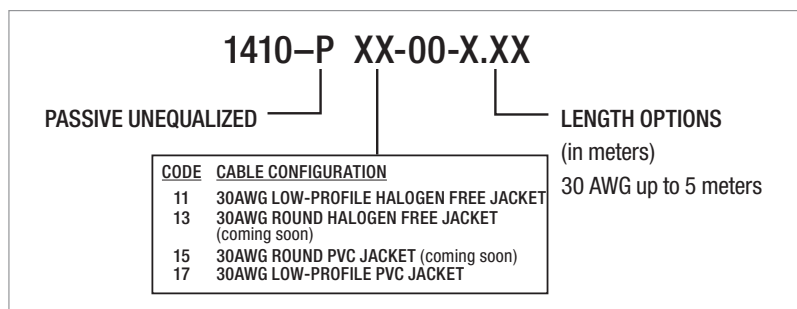
## Product Information

<b>Specifications</b>	Product	Available upon request (Doc#: PD-0077)
	Signal Integrity Data	Available upon request
<b>Materials</b>	Cable Type	2 twin axial pairs w/ copper foil EMI shield
	Cable Jacket	Halogen-Free* or PVC; Color: Black
	Cable Flammability Rating	UL VW-1 (PVC; Hal-Free in progress)
	Backshell	Diecast zinc – Cu underplate w/ Ni overplate
	EMI Girdle	Stainless steel
<b>Electrical</b>	Impedance (cable)	100Ω +/- 5 Ω
	Withstanding Voltage	300V DC
<b>Environmental</b>	Temperature Range	-30°C to +85°C (UL qualified)

## Ordering Information

The following parts configurations are available on customer drawing 78-5100-2418-1.

Please reference this drawing for additional details and availability.



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\*Advantages of LSZH insulation are the low smoke (IEC 61034-2:2005), low toxicity of combustion gases (NF X 70-100-2:2006), reducing the risk to firefighters and reducing the soot and corrosion damage to nearby equipment.

\*\*\*"RoHS Compliant 2002/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. 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.

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