OSFP 224G COPPER CABLE ASSEMBLIES

DIRECT ATTACH CABLES (DAC), ACTIVE COPPER CABLE (ACC) AND ACTIVE ELECTRICAL CABLE (AEC)

TE Connectivity's (TE) OSFP (Octal Small Form Factor Pluggable) copper cable assemblies further advance connectivity for high-speed data centers, enabling cutting-edge 1.6T bandwidth applications. These assemblies offer compatibility with a wide range of signaling protocols, from 25G/Lane NRZ to ultra-high-speed 224G/Lane PAM4, ensuring adaptability as technology evolves.

With the ability to deliver aggregate bandwidths of 200G, 400G, 800G, and up to 1.6T per cable assembly, TE's OSFP solutions meet the increasing demands of modern network infrastructure. Engineered for both performance and efficiency, these cables provide the robust data transmission required for next-generation systems while maintaining flexibility for various port configurations and customer-specific requirements.

TARGET MARKETS

- AI / ML
- Datacenters
- Cloud Computing
- High Performance Computing

APPLICATIONS

- Servers
- Switches
- Storage
- Routers

KEY FEATURES AND BENEFITS

High Speed & Density

- Offers 1.6Tbps aggregate data rates at 224Gbps lane speeds to support high-density data center applications
- Meets IEEE standard signal performance requirements

Design Flexibility

- Straight and breakout configurations are supported, providing flexibility in the design
- Wild range of gauge size (25 – 32 AWG) offers versatility in deployment scenarios in dense racks
- EEPROM in cable provides programmability and enhanced management capabilities

Seamless Integration & Cost Savings

- Supporting both legacy and next-generation bandwidth port capabilities
- Helps seamless integration with existing infrastructure without the need for costly upgrades

Extended Length

- Supports longer reach within data center racks
  - DAC can reach up to 1.3 meters
  - ACC extend the range from 1.2 to 2.5 meters
  - For distances beyond 2.5 meters, AEC is the solution

STANDARD PART NUMBER OFFERING

Cable Type	Form-Factor	Subtype/ Guage	Closed Top	RHS	RHS-RHS	HIS-IHS	Length
DAC	OSFP 224G	25 AWG	2497439-X	2506284-X	–	–	0.5-3m
			–	–	2505727-X	–	0.5-2m
		28 AWG	–	–	–	2505739-X	0.5-2m

Cable Type	Form-Factor	Subtype/ Guage	Closed Top	DEE IHS	FEE IHS	DEE RHS	LoopBack	Length
ACC	OSFP 224G	26 AWG	2500281-X	2500282-X	–	–	–	1-9m
			–	–	2505123-X 2505125-X	2505126-X	–	0.75-3.5m
			2500283-X	2500284-X	–	2505124-X	–	1-3.5m
			–	–	–	–	2504383-X	–
		30 AWG	2503748-X 2506027-X	2503749-X 2506028-X	2508399-X 2508401-X	2508400-X 2508402-X	–	0.75-3.5m

IHS: Integrated Heatsinks
RHS: Riding Heatsinks
FEE: Far End Equalization
DEE: Dual End Equalization

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