

OSFP CONNECTORS, CAGES & CABLE ASSEMBLIES

TE Connectivity's (TE) Octal Small Form Factor Pluggable (OSFP) connectors, cages and cable assemblies address next-generation data center needs by supporting aggregate data rates of 200 Gbps, and up to 400 Gbps. These products are designed for both 28G NRZ and 56G PAM-4 protocols, with a roadmap to 112G PAM-4 for future system upgrades. By utilizing integrated thermal heatsink technology in the plug, OSFP products provide superior thermal performance and the signal integrity needed to support 400G data rates. OSFP products offer high port density and can fit up to 36 ports of an 8 lane interface in a 1RU switch form factor, aligning with current and next-generation silicon roadmaps.

Key Features

- Designed for both 28G NRZ and 56G PAM-4 protocols
- Designed for up to 15W thermal loads with low airflow
- Capable of fitting up to 36 ports in a 1RU switch form factor

Key Benefits

- Supports data rates of 200 Gbps, and up to 400 Gbps
- Superior thermal and signal integrity performance
- High port density

Applications

- Switches
- Servers
- Routers
- Storage equipment

Cage Assemblies

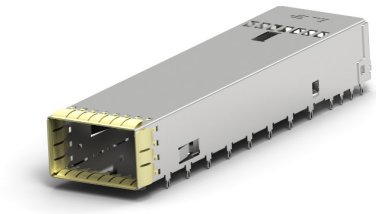
- 1 x 1 and 1 x 4 cages to support both multi and single port applications
- Low cost, stainless steel cage with tuned airflow venting supports module cooling and optimal system airflow
- Traditional EMI containment at the bezel and port opening
- Flat rock PCB assembly

Connector

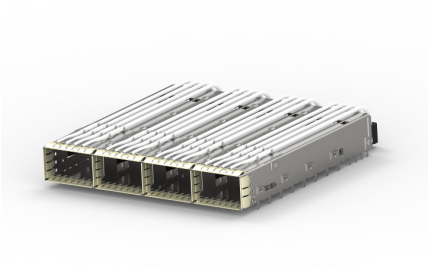
- 8-lane high density connector, footprint and mating interface per OSFP MSA spec
- Proven .6mm pitch, 60 contacts total
- Simple, low cost wafer design with 2 rows of contacts
- Belly-to-belly capable via in-ground alignment for low PCB cost and noise
- Proven to 56G PAM-4, with roadmap to 112G PAM-4

Part Number Information

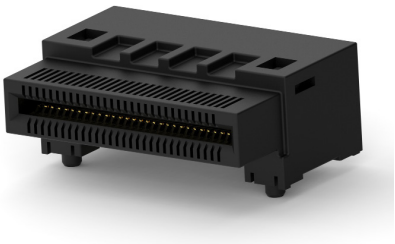
Description	TE Part Number
1x1 OSFP Cage Assembly	2317416-1
1x4 OSFP Cage Assembly	2338495-1
OSFP SMT, PDNI Connector Assembly	2324869-1
OSFP SMT w/ Holdown, PDNI Connector Assembly	2324869-2
1x4 OSFP Cage w/ Open Back	2338495-3
1x4 OSFP Cage w/ Grid, 1 LP Per Port	1-2338495-1
1x4 OSFP Cage w/ Open Back, 1 LP Per Port	1-2338495-3
1x4 OSFP Cage w/ Grid, 2 LP Per Port	2-2338495-1
1x4 OSFP Cage w/ Open Back, 2 LP Per Port	2-2338495-3
1x4 OSFP Cage w/ Grid, 4 LP Per Port	4-2338495-1
1x4 OSFP Cage w/ Open Back, 4 LP Per Port	4-2338495-3
1x4 Lightpipe Assembly, 4 LP Per Port	2325080-4
1x4 Lightpipe Assembly, 2 LP Per Port	2325080-5
1x4 Lightpipe Assembly, 1 LP Per Port	2325080-6
1x4 Cage for Lightpipes	2338495-5
1x4 OSFP Cage w/ Grid, No EMI Springs	2315853-2
1x4 OSFP Cage w/ Open Back, No EMI Springs	2315853-4
Dust and EMI Plug	2317857-2
Dust Plug	2324698-1



1x1 OSFP Cage Assembly



1x4 OSFP Cage Assembly with Lightpipes



OSFP SMT Connector

Cable Assemblies

- Module designed to be in the range of MSA specification impedance
- Allows airflow through the module shell to cool downstream electronics in front-to-back airflow systems, or exhaust for back-to-front airflow

Product Offering

- OSFP to OSFP straight cables
- OSFP to 2 or 4 QSFP56 breakout cables
- OSFP to 8 SFP56 breakout cables
- Other custom cable configurations will be considered
- Up to 26 AWG supported in the OSFP form factor
- Maximum cable reach of 3 meters meets IEEE 802.3cd SDD21 requirement of - 17.16 dB at 13.28 GHz

Part Number Information

Description	TE Part Number
OSFP - OSFP, 1 meter, 30AWG	2821906-5
OSFP - OSFP, 2 meter, 30AWG	2821906-7
OSFP - OSFP, 3 meter, 26AWG	2336065-3
OSFP - 2 QSFP, 1 meter, 30AWG	2324441-2
OSFP - 2 QSFP, 2 meter, 30AWG	2324441-4
OSFP - 2 QSFP, 3 meter, 26AWG	2335033-3
OSFP - 4 QSFP, 1 meter, 30AWG	2324442-2
OSFP - 4 QSFP, 2 meter, 30AWG	2324442-4
OSFP - 4 QSFP, 3 meter, 26AWG	2336063-3
OSFP - 8 SFP, 1 meter, 30AWG	2324443-2
OSFP - 8 SFP, 2 meter, 30AWG	2324443-4
OSFP - 8 SFP, 3 meter, 26AWG	2336064-3



OSFP to OSFP



OSFP to 2 QSFP



OSFP to 4 QSFP



OSFP to 8 SFP

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Netherlands:	31.0.73.6246.999
China:	86.0.400.820.6015

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