

Active optical cable

100G QSFP28 to 4x 25G SFP28 application

Description:

OPTOKON **M100-AC-QP28-4xSP28** is an Active Optical Cable (AOC) designed for high data rates, effectively addressing the bandwidth limitations of conventional copper cables. This AOC is equipped with a QSFP28 module at one end and four SFP28 modules at the other.

The QSFP28 terminal enables the transmission of data through four independent channels and the reception of data through four channels, all facilitated by multimode ribbon fibers, each capable of handling 25 Gbps operations. The fiber ribbon then branches into four separate fiber cables, each concluding with an SFP28 module. Consequently, this product can achieve an aggregate data rate of 100 Gbps over distances of up to 100 meters, supporting ultra-fast data exchange for high-performance computing.



Applications:

- Network Switch Manufacturers supporting 100/25 Gbps Ethernet
- Server Manufacturers supporting 100/25 Gbps
- Data Centers with 25 Gbps requirements with Aggregation Architectures
- Infiniband EDR

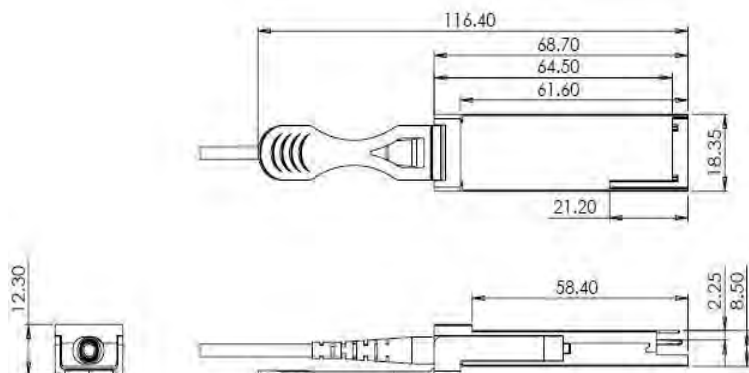
Features:

- 4 independent full-duplex channels
- Up to 28Gbps data rate per channel
- QSFP28 and SFP28 MSA compliant
- Up to 100m OM4 MMF transmission
- Operating case temperature: 0-70 °C
- Single 3.3 V
- Maximum power consumption of 3.5 W for QSFP28 terminal and 1 W for each SFP28 terminal
- Electrically hot-pluggable

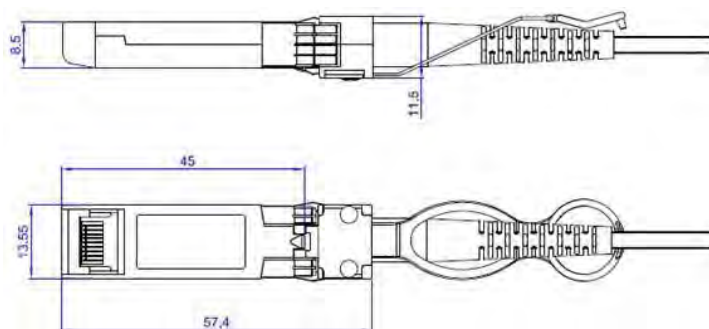
Standards:

- QSFP28 module compliant to SFF 8636 MSA
- SFP28 module compliant to SFF8472 MSA
- RoHS Compliant

Mechanical Dimensions:



Mechanical outline of QSFP28 terminal



Mechanical outline of SFP28 terminal

Ordering code:

M100-AC-QP28-4xSP28-XXX-D **XXX**.....Cable lengths on OM3 or OM4 Multimode Fiber

Standard distance and Examples of code:

XXX code	Distance
[-]	[m]
001	1
005	5
010	10
050	50
075	75
100	100

Table 1: Distance codes

Part number	Description
M100-AC-QP28-4xSP28-001-D	Active cable, 100G QSFP28 to 4x 25G SFP28, 1 m distance, temperature 0°C to 70°C
M100-AC-QP28-4xSP28-005-D	Active cable, 100G QSFP28 to 4x 25G SFP28, 5 m distance, temperature 0°C to 70°C
M100-AC-QP28-4xSP28-010-D	Active cable, 100G QSFP28 to 4x 25G SFP28, 10 m distance, temperature 0°C to 70°C
M100-AC-QP28-4xSP28-050-D	Active cable, 100G QSFP28 to 4x 25G SFP28, 50 m distance, temperature 0°C to 70°C
M100-AC-QP28-4xSP28-075-D	Active cable, 100G QSFP28 to 4x 25G SFP28, 75 m distance, temperature 0°C to 70°C
M100-AC-QP28-4xSP28-100-D	Active cable, 100G QSFP28 to 4x 25G SFP28, 100 m distance, temperature 0°C to 70°C

Table 2: Examples