

Direct Attach Cable (DAC)

100G QSFP28 / 4x 25G SFP28

Description:

OPTOKON 100G QSFP28 to 4x 25G SFP28 passive copper cable assembly feature eight differential copper pairs, providing four data transmission channels at speeds up to 28 Gbps per channel, and meets 100G Ethernet, 25G Ethernet and InfiniBand Enhanced Data Rate (EDR) requirements. Available in a broad range of wire gages-from 26AWG through 30AWG-this 100G copper cable assembly features low insertion loss and low cross talk.

Designed for applications in the data center, networking and telecommunications markets that require a high speed, reliable cable assembly, this next generation product shares the same mating interface with QSFP+ form factor, making it backward compatible with existing QSFP ports. QSFP28 can be used with current 10G and 14G applications with substantial signal integrity margin.



Product Applications:

- Switches, servers and routers
- Data center networks; Storage area networks
- High performance computing; Telecommunication and wireless infrastructure
- Medical diagnostics and networking
- Test and measurement equipment

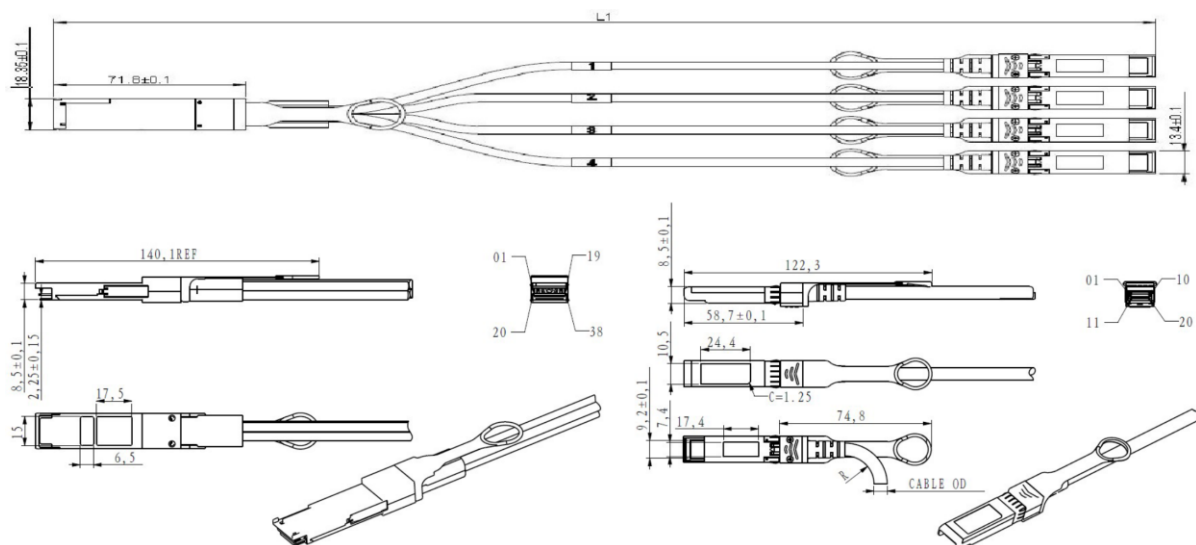
Features and Benefits:

- 4 independent duplex channels operating at 25 Gbps
- AC coupled inputs and outputs
- QSFP28 and SFP28 MSA compliant
- 100 Ohm differential impedance
- All-metal housing for superior EMI performance
- Operating case temperature: 0-70 °C
- Single power supply 3.3 V
- Low power consumption
- RoHS Compliant and Lead Free

Industry Standards:

- 100G Ethernet (IEEE 802.3bj)
- 25G Ethernet (IEEE 802.3by)
- InfiniBand EDR
- SFF-8665 QSFP+ 4x 28G (QSFP28)
- SFF-8402 SFP+ 1x 28 Gbps (SFP28)

Mechanical Dimensions:



All Dimensions Are $\pm 0.2\text{mm}$ Unless Otherwise Specified Unit: mm

Ordering code:

M100-DAC-QP28-4xSP28-XX-D XX.....Cable lengths on AWG cable

Standard distance and Examples of code:

Length (m)	AWG cable
1	30
2	30
3	30/26
4	26
5	26

Table 1: Distance codes

Part number	Description
M100-DAC-QP28-4xSP28-01-D	DAC cable, 100G QSFP28 to 4x 25G SFP28, 1 m distance, temperature 0°C to 70°C
M100-DAC-QP28-4xSP28-02-D	DAC cable, 100G QSFP28 to 4x 25G SFP28, 2 m distance, temperature 0°C to 70°C
M100-DAC-QP28-4xSP28-03-D	DAC cable, 100G QSFP28 to 4x 25G SFP28, 3 m distance, temperature 0°C to 70°C
M100-DAC-QP28-4xSP28-04-D	DAC cable, 100G QSFP28 to 4x 25G SFP28, 4 m distance, temperature 0°C to 70°C
M100-DAC-QP28-4xSP28-05-D	DAC cable, 100G QSFP28 to 4x 25G SFP28, 5 m distance, temperature 0°C to 70°C

Table 2: Examples

Remark: Full compatibility is conditioned by exact specification of the end device; compatibility of older SFPs is not guaranteed with new devices or updated SW.