

IP68 Rated Cable Assemblies

Fiber Optic Cable Assemblies

IP68 Rated Cable Assemblies have weatherproof metal ruggedized connectors and are available in 2-24 fibers.

Based on the N-Type RF threaded connector housing, this interconnect system provides superior optical performance in outdoor environments using LC-style 1.25mm ceramic ferrules for ODLC connectors and MT-style ferrules for ODMC-12/24 connectors.

The corrosion resistant metal housing provide a durable and environmentally protected solution for optical connectivity in areas exposed to elements such as rain, snow, dirt, and other types of contamination.

These assemblies mate using a socket and plug interface.



Formats



ODLC-2



ODLC-4



ODMC-12/24

Features

- Meets IP68 Standards and designed for harsh environment applications
- The threaded locking mechanism requires no tools for insertion or removal ensuring an easy and safe installation
- Indoor/outdoor or outdoor rated cable available in 5.0 or 7.0mm jacket sizes with singlemode or multimode fiber
- Compact socket and plug design
- Fulfills performance standard IEC 61753-1 Cat. E
- Waterproof, dust proof and corrosion resistant
- Waterproof protection caps
- EMI protected
- RoHS compliant



Applications

- Outdoor events, shows, or anywhere rugged or weatherproof connectivity is required
- FTTH or FTTMDU
- FTTA cell tower Remote Radio Units (RRU) or RRH
- Industrial machinery or diagnostic equipment

IP68 Rated

Solid Particle Protection

IP First Digit Rating Level: 6

Totally protected against dust ingress (dust-tight).

Liquid Ingress Protection

IP Second Digit Rating Level: 8

Protected from water ingress while immersed in deep water.



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Specifications

Housing Material	Nickel-Plated Brass
Plug Mechanical Performance	≤ 800 N Tensile Load and ≤ 30 N Static Side Load
Socket Mechanical Performance	≤ 30 N Tensile Load
Installation Torque Force	Min. 1 Nm and Max. 2 Nm
Operating Temperature (IEC 61300-2-22)	-40 up to +85 °C
Mating Durability	1000 Cycles
Ingress protection (mated) (IEC 60529)	IP 68
Salt mist (IEC 61300-2-26)	Passed 30 days
Vibration (IEC 61300-2-1)	Passed 10 to 500 Hz/10 g
Shock (IEC 61300-2-9)	Passed 100 g
ODLC-2/4 Insertion Loss (IEC 61300-3-34)	Typical: ≤ 0.20 dB, Max: 0.35 dB
ODMC-12/24 Insertion Loss (IEC 61300-3-34)	Typical: ≤ 0.35 dB, Max: 0.45 dB
ODLC-2/4 Return Loss (SM Only)	Typical: -55 dB, Max: -50 dB
ODMC-12/24 Return Loss (SM Only)	Typical: -65 dB, Max: -60 dB

Socket and Plug Interface



Mating



Mount the socket, remove the dust caps, align the keys, insert the plug, and tighten the nut.

Accessories



Click Cleaner for ODLC Connectors
P/N: 12910



Click Cleaner for ODMC Plug
Connectors P/N: IBC-ODMC-P



Click Cleaner for ODMC Socket
Connectors P/N: IBC-ODMC-S



Security Sleeve and Tool to Prevent
Unauthorized Disconnections
P/N: ODLC-SECURITYSLEEVEKIT



Extra ODLC/ODMC Plug Dust Cap
P/N: ODLC-PLUG-DUSTCAP



Extra ODLC/ODMC Socket Dust Cap
P/N: ODLC-SOCKET-DUSTCAP

