Direct Attach Fiber Optic and Copper Cable Assemblies

Custom Assemblies

With the amount of data transmission between servers and switches ever increasing, our selection of Direct Attach and Active Copper/Optical cable assemblies provide a cost-effective solution to meet the need for higher bandwidth with lower power consumption. The lineup of copper and fiber optics assemblies address: connection length, budget requirements, power consumption, and OEM compatibility.
Built to meet the rigors of your system's requirements.

Features / Coding

Assemblies are terminated with Direct Attach Connectors, eliminating the need for the purchase of adapters or converters.

Coding of connectors allows for compatibility with a wide variety of OEM equipment vendors, including: Cisco, Juniper, Arista, and other manufacturers. Assemblies may be Dual Coded for connecting mixed platforms.

Small Form Factor Connectors enable high density deployments. Incorporation of fiber optic cable allows for interconnects of extended lengths, while using the same transceiver hardware as copper cable. Assembly design eliminates the need to clean and inspect optical connections, saving precious time and budget during installation.

Available Options

Direct Attach Cables (DAC)

Suitable for short interconnection within a single rack or between adjacent racks. DAC Assemblies transmit information passively between the two connected ports.

Connectors	Speed	Maximum Length
SFP+ to SFP+	11 Gb/s	10 meters
QSFP+ to 4xSFP+	4x11 Gb/s	5 meters
QSFP+ to QSFP+	40 Gb/s	5 meters
SFP28 to SFP28	25 Gb/s	5 meters
QSFP28 to 4xSFP28	4x25 Gb/s	5 meters
QSFP28 to QSFP28	100 Gb/s	5 meters

Active Copper Cables (ACC)

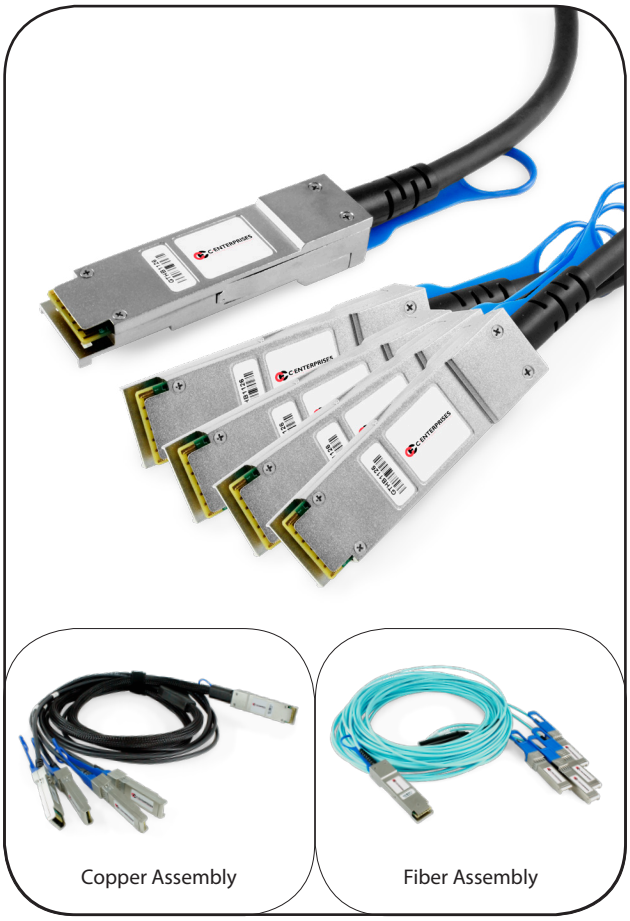
Active Copper Cables extends the reach of the signal by drawing power from the switch. This design incorporates the use of a thinner gauge cable.

Connectors	Speed	Maximum Length
SFP+ to SFP+	11 Gb/s	12 meters
QSFP+ to 4xSFP+	4x11 Gb/s	10 meters
QSFP+ to QSFP+	40 Gb/s	10 meters

Active Optical Cables (AOC)

The use of fiber optic cable greatly increases the maximum assembly length, ensuring a high speed connection between racks located at a considerable distance from one another.

Connectors	Speed	Maximum Length
SFP+ to SFP+	11 Gb/s	100 meters
QSFP+ to 4xSFP+	4x11 Gb/s	100 meters
QSFP+ to QSFP+	40 Gb/s	100 meters
SFP28 to SFP28	25 Gb/s	100 meters
QSFP28 to 4xSFP28	4x25 Gb/s	100 meters
QSFP28 to QSFP28	100 Gb/s	100 meters



Copper Assembly

Fiber Assembly

Application

Assemblies interconnect Storage Area Networks (SANs) and Network Attached Storage (NAS) directly, elimating the need for intermediate patch panels.
An ideal component for Top-of-Rack (ToR) and Middle-of-Rack (MoR) server architecture.

Durability

Copper and Fiber Optic cables used in assemblies carry flame ratings appropriate for the server room environment.

Cables are factory tested and carry a lifetime manufacturer's warranty.

Agency / Standard Compliance

Fiber Optic Assembly:
- RoHS Compliant
- MSA
- SFF
- IEEE 802.3
- Riser or LSZH Rated Cable Jacket

Copper Assembly:
- RoHS Compliant
- MSA
- SFF
- IEEE 802.3
- CEC/C(UL): CL2
- CSA: FT4

ISO 9001:2008 REGISTERED

RoHS COMPLIANT

RF INDUSTRIES
email: rfindustries.com | phone: 800.233.1728
16868 Via Del Campo Court, Suite 200
San Diego, CA 92127