

800G QSFP-DD Passive Direct Attach Copper Twinax Cable

QDD-800G-PCxxx



Application

- Ethernet

Features

- Maximum Link Length: up to 1.5m
- QSFP-DD Module Fully Compliant to the Latest IEEE 802.3ck QSFP-DD MSA
- Enables 800Gb/s Transmission
- Low Power Consumption $\leq 0.005W$
- Operating Temperature Range: 0°C to 70°C

Description

The 800G QSFP-DD Passive Direct Attach Copper Twinax Cable is designed for use in 800GBASE Ethernet. This cable is compliant with IEEE 802.3ck by Ethernet standard and QSFP-DD MSA Compliant.

With these features, this easy to install, high speed, cost-effective direct attach copper twinax cable is suitable for short-distance connectivity within a rack or between adjacent racks in data centers.

Product Specification

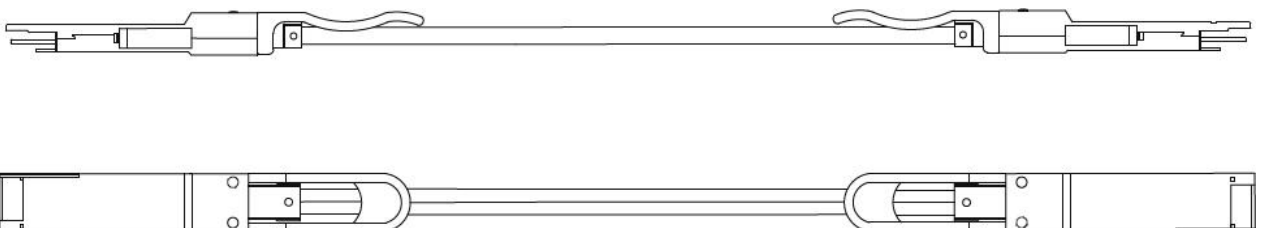
I. General Requirements

Item	Description	Parameter	Requirement
G1	Connection Testing (Capacitance Measurement)	$C_{TXy-RXy}$ (300 μ s@3V)	100nF \pm 10%
G2	Short Circuit Testing	$R_{XXy-XXy}$ (500 μ s@3V DC)	\geq 1M Ω

II. Signal Integrity Requirements¹

Item	Description	Parameter	Requirement
S1	Max. Insertion Loss@26.56GHz	S_{DD12} S_{DD21}	\leq 19.75dB
S2	Min. Cable Assembly ERL	ERL	\geq 8.25dB
S3	Differential to Common Mode Conversion (Up to 40GHz)	$S_{CD12}-S_{DD12}$ $S_{CD21}-S_{DD21}$	$\geq \begin{cases} 10 & 0.05 \leq f < 12.89 \\ 14 - 0.3108f & 12.89 \leq f \leq 40 \end{cases}$

III. Diagram Mechanical Drawing



Ordering Information

Part Number	Data Rate	Length	Wire Gauge	Connector Type	Temp. Range	Cable Jacket
QDD-800G-PC005	800G	0.5m	30AWG	Passive Copper	0-70°C	PVC
QDD-800G-PC01	800G	1m	28AWG	Passive Copper	0-70°C	PVC
QDD-800G-PC015	800G	1.5m	28AWG	Passive Copper	0-70°C	PVC