40GbE QSFP+ Passive DAC Cable

Overview

The Wave2Wave QSFP+ Passive Direct-Attach Copper (DAC) Cable delivers a cost-effective, high-density interconnect optimized for 40GbE and InfiniBand applications. Designed to support four InfiniBand channels at 10Gbps per lane, it provides a total bandwidth of 40Gbps, ideal for top-of-rack and rack-to-rack deployments in modern data centers.



Engineered for high-performance computing (HPC) and enterprise environments, the QSFP+ DAC combines exceptional signal integrity, low latency, and zero power consumption, ensuring efficient, reliable connectivity for bandwidth-intensive workloads.

Fully compliant with QSFP+ MSA, IBTA (InfiniBand Trade Association), and IEEE 802.3ba (40Gbps) standards, Wave2Wave QSFP+ Passive DAC cables guarantee interoperability and plug-and-play compatibility across industry-leading switches, routers, and network devices.

Features and Benefits

- Supports serial data rates up to 40Gbps
- Ultra-low crosstalk for enhanced performance and signal quality
- 3× port density of standard SFP solutions — saves rack space and power
- Available in 24AWG–30AWG copper cable options
- Zero power consumption for maximum efficiency

Applications

- Enterprise storage systems
- High-density, high-speed I/O environments
- Multi-channel interconnects
- Switch, router, and HBA connectivity
- Data center networks
- InfiniBand 4× SDR, DDR, and QDR links

Cable Diagram

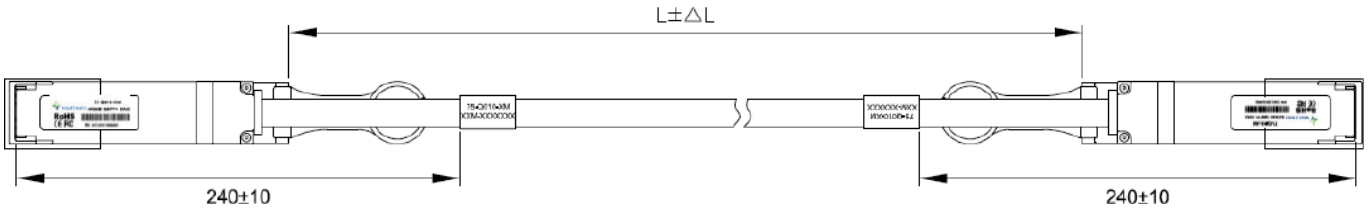


Table 1 – Absolute Maximum Ratings	
Parameter	**Range**
Operating Voltage	6V
Operating Case Temperature	-40°C to +85°C
Storage Ambient Temperature	-40°C to +85°C

Table 2 – Operating Conditions				
Parameter	**Minimum**	**Typical**	**Maximum**	**Units**
Supply Voltage	3.13	3.3	3.465	V
Data Rate per Lane	1		10	Gb/s

Table 3 – Physical Data			
Parameter	**30AWG**	**24AWG**	**Units**
Cable Diameter	6.6	10	mm
Bend Radius, Minimum Sustained Bend	35	50	mm

Standards Compliance

- Electrical: IBTA V2 Revision 1.2.1
- IEEE 802.3ba
- EEPROM: SFF-8436
- QSFP+ MSA
- RoHS

RoHS

Product Selection

Part Number: 75-Q010-XX		Length	AWG
xx	1M	1 meter cable	30
	2M	2 meter cable	30
	3M	3 meter cable	30
	4M	4 meter cable	24
	5M	5 meter cable	24
	6M	6 meter cable	24
	7M	7 meter cable	24

Custom Cable Lengths and Colors also Available