QSFP+ to 4SFP+ Passive DAC Cables

Overview

The Wave2Wave QSFP+ to 4×SFP+ Passive DAC enables efficient 40G-to-4×10G breakout connectivity for data center and enterprise networks. It allows a single 40GbE QSFP+ port to connect to four individual 10GbE SFP+ ports, supporting flexible switch-to-server and switch-to-switch deployments.

Designed for short-reach, low-latency links, this passive copper cable requires no power, helping reduce heat and energy usage in dense environments. With low EMI, low crosstalk, and reliable signal integrity, it delivers consistent performance for rack-level interconnects and optimized cable management.

Compliant with SFF-8436 and SFF-8431, it ensures seamless interoperability across major Ethernet and InfiniBand platforms. Its combination of simplicity, cost efficiency, and dependable performance makes it ideal for scalable cloud, enterprise, and storage infrastructure.



Features and Benefits

- Cost-effective breakout from one QSFP+ port to four 10G SFP+ ports
- High-performance 24–30AWG copper for reliable signal integrity
- Supports 40GbE, 10GbE, InfiniBand, SAS and Fiber Channel
- Delivers 10.3125Gbps per lane (40Gbps aggregate)
- Durable zinc die-cast housings with pull-tab release
- Low crosstalk, low skew, and controlled impedance for stable performance
- Interoperable with industry-standard Ethernet & InfiniBand equipment
- Lower power and lower cost than optical transceivers

Applications

- InfiniBand SDR, DDR
- Ethernet 1G / 10G / 40G
- Fiber Channel environments
- Rack-to-rack and shelf-to-shelf connections
- Data center networking
- Enterprise storage systems
- Switches, routers, servers, hubs

Cable Diagram

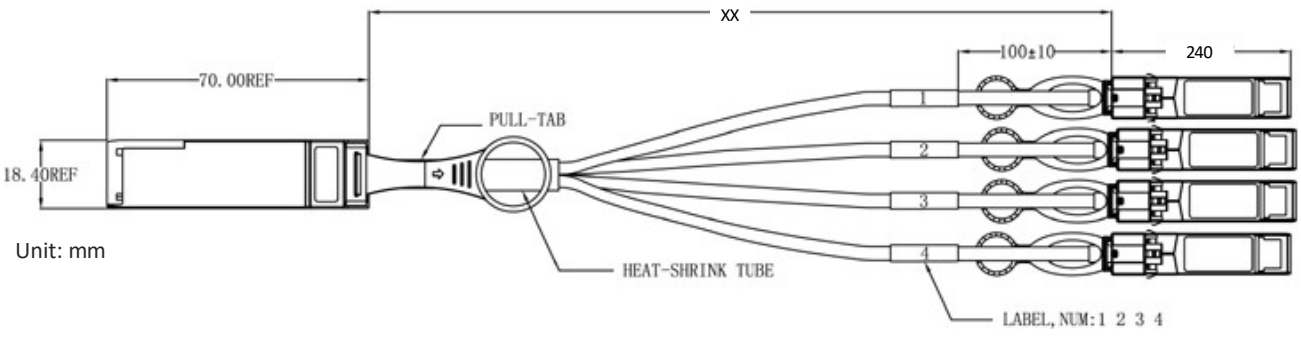


Table 1 – Absolute Maximum Ratings	
Parameter	**Range**
Operating Voltage	6V
Operating Case Temperature	-40°C to +85°C
Storage Ambient Temperature	-40°C to +85°C

Table 2 – Operating Conditions				
Parameter	**Minimum**	**Typical**	**Maximum**	**Units**
Supply Voltage	3.13	3.3	5.25	V
Data Rate per Lane	1			Gb/s

Table 3 – Physical Data			
Parameter	**24AWG**	**24AWG**	**Units**
Cable Diameter	4.5	6.5	mm
Bend Radius, Minimum Sustained Bend	22.5	32.5	mm

Standards Compliance

- Electrical: IBTA V2 Revision 1.2.1
- IEEE 802.3ba
- EEPROM: SFF-8436 and SFF-8431
- QSFP+ MSA & SFP+ MSA
- RoHS

RoHS

Product Selection			
Part Number: 75-QS040-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