

CAB-QSFP/4SFP-PxxM

40G QSFP+ to 4 10G SFP+ Breakout Direct-attach Cable

1. Overview

QSFP to 4x SFP+ Splitter Cable offers IT professionals a cost-effective interconnect solution for merging 40G QSFP and 10G SFP+ enabled host adapters, switches and servers.

For typical applications, users can install this splitter cable between an available QSFP port on their 40 Gigabit/s rated switch and feed up to four upstream 10GbE-SFP+ enabled switches. Each QSFP-SFP+ splitter cable features a single QSFP connector (SFF-8436) rated for 40-Gb/s on one end and (4) SFP+ connectors (SFF-8431), each rated for 10-Gb/s, on the other end.

AscentOptics is the manufacturer of QSFP to 4 SFP+ Splitter Cables that designs and sources every subassembly in-house guaranteeing complete control over product performance, quality and consistency. Examples include our widely respected board-as-connector platform which is direct-welded to the wire and encased in a robust Zinc-Nickel backshell for superior crosstalk and EMI performance.

Cable available in 0.5M (1.7ft), 1m (3.3ft), 2m (6.6ft), 3m (9.8ft) & 5m (16.4ft) lengths to accommodate your installation requirements.



2. Specifications:

- Connector A: (1) QSFP 40.0 Gbps Rated Connector (SFF-8436 Compliant)
- Connector B: (4) SFP+ 10.0 Gbps Rated Connectors (SFF-8431 Compliant)
- Economically Links up a QSFP port with an Upstream 10GbE-SFP+ Switch
- AWG30
- Protocol agnostic support of 40GbE, QDR InfiniBand, SAS & Fibre Channel
- Up to 10.3125 Gbps transfer rate per SFP+ channel (40 Gbps aggregate)
- Robust Zinc die-cast SFP+ & QSFP connectors with pull-to-release latching
- Bridge the gap between your 10G and 40G capable switches/host adapters
- Low cross-talk and pair-to-pair skew maintains signal integrity
- Fully compliant to the latest SFP+ & QSFP MSA (Multi-Source-Agreement)
- Supports all current 10-Gigabit Ethernet and 40-Gigabit Ethernet standards
- Designated form factor and electrical compliance for QDR InfiniBand
- The perfect direct attached storage splitter cable for Fibre Channel & SAS
- Enjoy a reduced power budget and lower port cost compared to optical
- Fully RoHS compliant for environmental protection

3. Applications

- InfiniBand SDR, DDR
- Ethernet 1G, 10G
- FibreChannel
- Rack-to-Rack, Shelf-to-Shelf Interconnect
- Networking
- Storage
- Hubs, switches, routers, servers

Table 1 - Absolute Maximum Ratings

Parameter	Parameter
Operating Voltage	300V
Operating Case Temperature	0°C to 70°C
Storage Ambient Temperature	-10°C to 75°C

Table 2 - Cable Specifications and Ordering Information

Maximum Reach @ 10Gb/s (m)	Cable Diameter QSFP+/SFP+	Part Number
1	6.1mm/4.5mm	QSFPX4SFP01
3	6.1mm/4.5mm	QSFPX4SFP03
5	9.3mm/6mm	QSFPX4SFP05

Table 3 - Operating Conditions

Parameter	Minimum	Typical	Maximum	Units
Supply Voltage	3.15	3.3	3.45	V
Data Rate per Lane	1		10.5	Gb/s