

## 40 Gb/s QSFP+ Direct Attach Twinaxial Passive Cable

### Features

- Multiple conductor sizes for optimized performance
- Positive retention pull-release latch system
- High-density QSFP+ connector
- Ultra-low crosstalk for enhanced performance
- Cost-effective and optimized for high-speed data center interconnects.

### Applications

- Ethernet 40G
- RapidIO
- Myrinet 40G
- Rack-to-Rack, Shelf-to-Shelf Interconnect
- Networking
- Storage
- Hubs, switches, routers, servers

### Specifications

- IEEE 802.3ba
- Electrical: IBTA V2 Revision 1.2.1

### Regulatory Compliance

- EEPROM: SFF-8472

### Physical and Environmental

- RoHS-6 compliant (lead-free)
- Operating temperature: 0°C to 70°C
- Wire Gauge: 30 AWG
- Insulation Resistance: 1000 Mohms
- Min. Dielectric Withstand Voltage: 300 VDC
- Current Rating: 0.5 Amp Min/Signal Contact
- Insertion Force: 40N Max.
- Withdrawal Force: 30N Max.
- Retention Force: 90N Max.
- Plug Durability: 250 Cycles

### Compatible Adapters

- T580-OCP-SO
- T580-SO-CR
- T580-CR
- T580-LP-CR

### Overview

Chelsio's QTAPCABLE1M 40Gb/s QSFP+ (Quad Small Form-factor Pluggable Plus) Direct Attach Twinaxial Passive Cables are designed and certified for use with Chelsio's 40-Gigabit Ethernet Unified Wire Adapters. The Twinaxial cables offer a cost-effective and power-efficient cabling solution for high-speed data applications.



The Chelsio QTAPCABLE1M 1meter copper cable is compatible with Chelsio's T5-based Unified Wire Adapters. The T5 adapters support PCI Express 3.0 host bus interface, and are optimized for storage, cloud computing, HPC, virtualization and other data center applications. The fifth-generation T5 ASIC technology from Chelsio provides the highest performance while dramatically lowering host-system CPU and memory overhead with on-board hardware that offloads TCP/IP, iSCSI, FCoE and iWARP RDMA processing. As a result, the system benefits from higher bandwidth, lower latency and reduced power consumption.

### Characteristics

Chelsio's QTAPCABLE1M QSFP+ cables are fully compliant with IEEE 802.3ba and IBTA specifications and adhere to RoHS and SFF-8472 standards. The QSFP+ form factor (Quad SFP+) can replace up to four standard SFP+ connections, providing greater density and reduced system cost.

The T5 Adapters with QTAPCABLE1M cables enable a unified wire for LAN, SAN, and cluster traffic. Built upon a combination of high bandwidth and low latency architecture, the T5 solution offers a complete set of storage and cluster protocols operating over Ethernet (iSCSI, FCoE and iWARP). T5 solution's port-to-port and adapter-to-adapter failover features are ideal for critical applications that require redundancy and high-availability capabilities. Full Software suite was run with these cables and Chelsio recommends using these cables only with Chelsio Adapters to allow the Adapter warranty and support structure to remain intact.

### Ordering Information

Model: QTAPCABLE1M

INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH CHELSIO PRODUCTS. NO LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE, TO ANY INTELLECTUAL PROPERTY RIGHTS IS GRANTED BY THIS DOCUMENT. EXCEPT AS PROVIDED IN CHELSIO'S TERMS AND CONDITIONS OF SALE FOR SUCH PRODUCTS, CHELSIO ASSUMES NO LIABILITY WHATSOEVER, AND CHELSIO DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, RELATING TO SALE AND OR USE OF CHELSIO PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT. CHELSIO PRODUCTS ARE NOT INTENDED FOR USE IN MEDICAL, LIFE SAVING, OR LIFE SUSTAINING APPLICATIONS. CHELSIO MAY MAKE CHANGES TO SPECIFICATIONS AND PRODUCT DESCRIPTIONS AT ANY TIME WITHOUT NOTICE.

Copyright © 2016 - Chelsio Communications - All Rights Reserved.