

40G QSFP+ to 4x SFP+ Splitter Cable Assemblies

THE MOST RELIABLE 40G TO 4X 10G I/O SPLITTER CABLE SOLUTION IN THE INDUSTRY

Amphenol ICC's 40G QSFP+ to 4x SFP+ splitter cable assemblies are designed to meet emerging data center and high performance computing application needs for a high density cabling interconnect system capable of delivering aggregate data bandwidths of 40Gb/s at QSFP end and 10G at SFP end. This interconnect system is fully compliant with existing industry standard specifications such as the QSFP MSA and SFP MSA. The 40G QSFP+ to 4x SFP+ cables support the bandwidth transmission requirements as defined by IEEE802.3ba (40Gb/s) and IEEE802.3ae standards.

Amphenol ICC offers cable assemblies that enable the use of a copper based interconnect system for applications with cable lengths up to 6 meter with passive design and 12 meter with active design. The SFP end also has a push-to-release version (clean back) as a backup option for customers.

- 40G/10G Ethernet, 6G SAS, 8G FC, InfiniBand & SONET multi-platform support
- Exceeds 40G/10G Ethernet with optimized PCB and auto soldering
- Enjoy a reduced power budget and lower port cost compared to optical
- Supports up to a maximum 12 meter length for passive plus active copper solution
- Fully compatible with different I/O connector brands in the industry

FEATURES

- Fully compliant to the latest MSA of QSFP+/SFP+
- Optimized PCB with auto soldering process
- Robust zinc die cast connectors with pull-to-release latching & stamped EMI spring girdle
- EEPROM in cable assembly
- Enables 10Gb/s per channel transmission
- 33AWG – 26AWG cable sizes
- Active or micro-controller capability
- RoHS2 compliant



TARGET MARKETS



BENEFITS

- Support to connect any Security-Free QSFP+/SFP+ Port
- Exceeds 10G/channel electrical performance requirement
- Assure 360° EMI shielding and easy latch release
- Industry memory map compliance or customized
- Supports industry standards like 10GbE, FC, etc.
- Supports cable length from 0.25 meter to 12 meter
- Lower loss or coded EEPROM access support
- Environmentally friendly

▶ 40G QSFP+ to 4x SFP+ Splitter Cable Assemblies

TECHNICAL INFORMATION

MATERIAL

- Nickel plated zinc die cast shells & latching mechanism parts
- EM-888k laminated PCB with gold finger pads and solder pads
- Differential 8-pair cable with EMI shielding braid and LSZH or PVC jacketing
- Thermoplastic cable pull tab (pull-to-release only)

ELECTRICAL PERFORMANCE

- Differential Impedance: 100Ω +/- 10Ω
- SI performance per 40G Ethernet
- Dielectric Withstanding Voltage per EIA 364-20

MECHANICAL PERFORMANCE

- Durability: 50 cycles
- Mating Force: 40N max.
- Latch Strength; Axial Load: 180N min.
- Cable Axial Strain Relief: 90N min.
- Cable Flex: 180° flex; 15 cycles per EIA 364-41

ENVIRONMENTAL

- Thermal shock: EIA 364-32, Condition 1, 25 cycles, -55°C to 85°C
- Temperature life: EIA 364-17, Method A, Condition 2, Time Condition C, 500 hours, 70°C

APPROVALS AND CERTIFICATIONS

- Ethernet Alliance Interoperability compliance
- IBTA Interoperability compliance
- RoHS2 compliant

SPECIFICATION

- Product Specification: 61064xxxx cable assemblies, passive un-equalized, 60876xxxx cable assemblies, full active equalized

PACKAGING

- Individually packed in anti-static bags
- Cable ends packaged with dust covers

TARGET MARKETS/APPLICATIONS



Adapter Card
Routers
Switches
Wireless BBU



Data Center
High Performance Computing (HPC)
Server
Storage

PART NUMBERS

Description	Type	Length	Part Numbers
40G Ethernet QSFP+ to 4x SFP+ Splitter Copper Cable	Pull-to-Release, 30AWG, passive	0.5 meter	610640000
40G Ethernet QSFP+ to 4x SFP+ Splitter Copper Cable	Pull-to-Release, 30AWG, passive	1.0 meter	610640001
40G Ethernet QSFP+ to 4x SFP+ Splitter Copper Cable	Pull-to-Release, 30AWG, passive	1.5 meter	610640008
40G Ethernet QSFP+ to 4x SFP+ Splitter Copper Cable	Pull-to-Release, 30AWG, passive	2.0 meter	610640002
40G Ethernet QSFP+ to 4x SFP+ Splitter Copper Cable	Pull-to-Release, 30AWG, passive	2.5 meter	610640007
40G Ethernet QSFP+ to 4x SFP+ Splitter Copper Cable	Pull-to-Release, 28AWG, passive	3.0 meter	610640003
40G Ethernet QSFP+ to 4x SFP+ Splitter Copper Cable	Pull-to-Release, 28AWG, passive	4.0 meter	610640004
40G Ethernet QSFP+ to 4x SFP+ Splitter Copper Cable	Pull-to-Release, 26AWG, passive	5.0 meter	610640005
40G Ethernet QSFP+ to 4x SFP+ Splitter Copper Cable	Pull-to-Release, 26AWG, passive	6.0 meter	610640006
40G Ethernet QSFP+ to 4x SFP+ Splitter Copper Cable	Pull-to-Release, 30AWG, active	1.0 meter	608760001
40G Ethernet QSFP+ to 4x SFP+ Splitter Copper Cable	Pull-to-Release, 30AWG, active	3.0 meter	608760003
40G Ethernet QSFP+ to 4x SFP+ Splitter Copper Cable	Pull-to-Release, 30AWG, active	5.0 meter	608760005
40G Ethernet QSFP+ to 4x SFP+ Splitter Copper Cable	Pull-to-Release, 30AWG, active	7.0 meter	608760007
40G Ethernet QSFP+ to 4x SFP+ Splitter Copper Cable	Pull-to-Release, 30AWG, active	10.0 meter	608760010
40G Ethernet QSFP+ to 4x SFP+ Splitter Copper Cable	Pull-to-Release, 28AWG, active	12.0 meter	608760012

HS1040GQSFPSPPLITTERCA018EA4