100G QSFP28 Cable Assemblies

THE INDUSTRY LEADER IN 100G QSFP28 CABLE ASSEMBLIES

Amphenol ICC's QSFP28G cable assembly is designed to meet data center, networking and high performance computing application needs for high density cabling interconnect systems capable of 28Gb/s per channel transmission rates.

Designed to meet the requirements of Small Form Factor industry standard SFF-8665, Amphenol offers passive cable assemblies tailored to meet specific cable lengths while meeting all performance requirements.

The QSFP28G cable assembly supports the bandwidth transmission requirements as defined by 100G Ethernet (IEEE802.3bj), Infiniband IBTA FDR and EDR, Fibre Channel FC-PI-5 and FC-PI-6 standards and SAS-3 specifications. Amphenol's QSFP28G interconnect system increases small form factor based port bandwidth density well above existing QSFP systems.

TARGET MARKETS

FEATURES

- SFF-8665 industry standard compliance
- Optimized PCB interface board with auto soldering process
- EEPROM in cable assembly
- Enables 28Gb/s per channel transmission
- 32AWG – 26AWG cable sizes
- Controlled wire management and termination
- RoHS2 compliant

BENEFITS

- Fully compatible with all QSFP+ interfaces and mechanical requirements, backwards compatible with QSFP
- Optimized signal integrity performance
- Customized EEPROM access can be achieved
- Meets signal performance requirements up to 5 meter lengths
- Provides cost and performance optimized solutions across multiple cable assembly lengths
- Assures consistent cable performance
- Environmentally friendly

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TECHNICAL INFORMATION

MATERIAL

- Nickel plated zinc alloy die cast shell
- Engineered plastic pull tab
- VW1 rated bulk cable assemblies
- EM-888k board material
- 8 differential pair bulk cable with EMI shielding braid and LSZH or PVC jacketing

ELECTRICAL PERFORMANCE

- Differential Impedance: 100Ω ± 10Ω
- SI performance per 25G Ethernet

MECHANICAL PERFORMANCE

- Durability: 250 cycles SFF-8417
- Mating Force: Per SFF-8661 (40N max.)
- Module Retention: Per SFF-8661 (90N min., 125N no damage)
- Cable Axial Strain Relief: Test to 120N min.
- Cable Flex: 180° SFF-8417

ENVIRONMENTAL

- Thermal Shock: EIA-8417
- Temperature Life: EIA-364-17

APPROVALS AND CERTIFICATIONS

- RoHS2 Compliant

SPECIFICATION

- SFF-8665, SFF-8679, SFF-8636, SFF-8661
- Infiniband EDR, Infiniband FDR
- IEEE802.3bj, IEEE802.3by

PACKAGING

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

TARGET MARKETS/APPLICATIONS

Adapter Card
Wireless BBU/USU

Data Center
High Performance Computing (HPC)
Router
Server
Storage
Switch

PART NUMBERS

Description	Type	Part Numbers
QSFP28G Cable	30AWG 1.0 meter	NDAAFF-0001
QSFP28G Cable	30AWG 2.0 meter	NDAAFF-0002
QSFP28G Cable	30AWG 3.0 meter	NDAAFF-0003
QSFP28G Cable	30AWG 5.0 meter	NDAAFF-0004
QSFP28G Cable	30AWG 4.0 meter	NDAAFF-0005
QSFP28G Cable	30AWG 1.5 meter	NDAAFF-0006
QSFP28G Cable	30AWG 2.5 meter	NDAAFF-0007
QSFP28G Cable	30AWG 3.5 meter	NDAAFF-0008
QSFP28G Cable	28AWG 1.0 meter	NDAAFG-0001
QSFP28G Cable	28AWG 2.0 meter	NDAAFG-0002
QSFP28G Cable	28AWG 3.0 meter	NDAAFG-0003
QSFP28G Cable	28AWG 4.0 meter	NDAAFG-0004
QSFP28G Cable	28AWG 1.5 meter	NDAAFG-0005
QSFP28G Cable	28AWG 2.5 meter	NDAAFG-0006
QSFP28G Cable	26AWG 3.0 meter	NDAAFJ-0002
QSFP28G Cable	26AWG 4.0 meter	NDAAFJ-0003
QSFP28G Cable	26AWG 5.0 meter	NDAAFJ-0004
QSFP28G Cable	26AWG 2.0 meter	NDAAFJ-0005

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