

SFP28 Cable Assemblies

THE MOST RELIABLE 25G – 50G I/O CABLE SOLUTION IN THE INDUSTRY

Amphenol’s SFP28 cable assemblies are designed to support applications for 25G Ethernet and 32G Fibre Channel. Amphenol SFP28 products offer an ultra-high performance, cost effective solution for 25Gb/s to 50Gb/s speed applications in switched fabric I/O, switches, routers, data storage arrays, and high performance computer (HPC) clusters.

These SFP28 cable assemblies are assembled with industry leading twin-axial SKEWCLEAR® 2-Pair wire; optimized for bandwidth-intense applications such as 25Gb Ethernet, Fibre Channel, InfiniBand, and SONET. The cables are designed to the open source SFF-8402 MSA standard in order to guarantee compatibility with the vast majority of SFP28 equipment in the market.

- 25G –50G Ethernet, 32G Fibre Channel, InfiniBand & SONET multi-platform support
- Low cross-talk and pair-to-pair with SkewClear® Pair Wire
- Enjoy a reduced power budget and lower port cost compared to optical
- Supports maximum 5 meter length for passive solution
- Fully compliant with Amphenol’s SFP28/56 board connectors and cages as well as other industry standard compliant connector systems



TARGET MARKETS



FEATURES

- Fully compliant to the latest SFP28 MSA
- Optimized PCB with auto soldering process
- Stamped EMI Ground Finger
- EEPROM in cable assembly
- Enables 25Gb/s per channel transmission
- 30AWG – 26AWG cable sizes
- Active or micro-controller capability
- RoHS2 compliant

BENEFITS

- Supports connection with any security-free SFP28 port
- Exceeds 25G and 50G electrical performance requirement
- Assure 360° EMI shielding effectiveness
- Industry memory map compliance or customized
- Supports industry standards like 25GbE, 32GFC, etc.
- Supports cable length from 0.25m to 5m
- Lower loss or coded EPROM visit support
- Environmentally friendly

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TECHNICAL INFORMATION

MATERIAL

- Nickel plated zinc die cast shells & latching mechanism parts
- EM-888K laminated PCB with gold finger and solder pads
- Differential 2-pair cable with EMI shielding braid and LSZH or PVC jacketing
- Thermoplastic cable pull tab (pull-to-release only)
- Stainless steel EMI finger and other assembly hardware

ELECTRICAL PERFORMANCE

- Differential Impedance: $100\Omega \pm 10\Omega$
- SI performance per 25G Ethernet
- Dielectric Withstanding Voltage per EIA 364-20

MECHANICAL PERFORMANCE

- Durability: 50 cycles
- Mating Force: 18N 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
- FCIA Interoperability Compliance
- RoHS2 Compliant

SPECIFICATION

- Product Specification: C-NDCCGx-0099 cable assemblies, passive un-equalized (x=F,G,J)

PACKAGING

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

TARGET MARKETS/APPLICATIONS



Adapter Card
Wireless BBU



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

PART NUMBERS

Description	Type	Part Numbers
25G Ethernet Copper Cable	Pull-to-Release, 30AWG, 0.5 meter	NDCCGF-0006
25G Ethernet Copper Cable	Pull-to-Release, 30AWG, 1.0 meter	NDCCGF-0001
25G Ethernet Copper Cable	Pull-to-Release, 30AWG, 1.5 meter	NDCCGF-0002
25G Ethernet Copper Cable	Pull-to-Release, 30AWG, 2.0 meter	NDCCGF-0003
25G Ethernet Copper Cable	Pull-to-Release, 30AWG, 2.5 meter	NDCCGF-0004
25G Ethernet Copper Cable	Pull-to-Release, 30AWG, 3.0 meter	NDCCGF-0005
25G Ethernet Copper Cable	Pull-to-Release, 26AWG, 1.0 meter	NDCCGJ-0001
25G Ethernet Copper Cable	Pull-to-Release, 26AWG, 2.0 meter	NDCCGJ-0002
25G Ethernet Copper Cable	Pull-to-Release, 26AWG, 2.5 meter	NDCCGJ-0008
25G Ethernet Copper Cable	Pull-to-Release, 26AWG, 3.0 meter	NDCCGJ-0003
25G Ethernet Copper Cable	Pull-to-Release, 26AWG, 3.5 meter	NDCCGJ-0009
25G Ethernet Copper Cable	Pull-to-Release, 26AWG, 4.0 meter	NDCCGJ-0004
25G Ethernet Copper Cable	Pull-to-Release, 26AWG, 4.5 meter	NDCCGJ-0010
25G Ethernet Copper Cable	Pull-to-Release, 26AWG, 5.0 meter	NDCCGJ-0005
25G Ethernet Copper Cable	Pull-to-Release, 26AWG, 5.5 meter	NDCCGJ-0011

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