

# SFP28 Cable Assemblies

## WIDELY USED ON 25G CONNECTION FOR SWITCH/ SERVER/STORAGE

Amphenol ICC'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 25G speed applications in switched fabric I/O, switches, routers, data storage arrays, and high performance computer (HPC) clusters. The SFP28 cable assemblies are assembled with industry leading twin-axial SKEWCLEAR® 2-pair wire; optimized for bandwidth intense applications such as 25G 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 on the market.

- 25G 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 28G 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

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

## 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:  $180^\circ$  flex; 15 cycles per EIA 364-41

### ENVIRONMENTAL

- Thermal Shock: EIA 364-32, Condition 1, 25 cycles,  $-55^\circ\text{C}$  to  $+85^\circ\text{C}$
- Temperature Life: EIA 364-17, Method A, Condition 2, Time Condition C, 500 hours,  $70^\circ\text{C}$

### 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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