

# QSFP28 to 4xSFP28 Splitter Cable Assemblies

## THE INDUSTRY LEADER IN 100G QSFP28 SPLITTER CABLES

Amphenol ICC's QSFP28G to 4xSFP28 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 /SFF-8402, Amphenol offers passive cable assemblies tailored to meet specific cable lengths while meeting all performance requirements.



### TARGET MARKETS



### FEATURES

- SFF-8665 /SFF-8402 industry standard compliance
- Optimized PCB interface board with auto soldering process
- Enables 28Gb/s per channel transmission
- EEPROM in cable assembly
- Stamped EMI girdle (SFP ends only)
- Controlled wire management and termination
- 32AWG – 26AWG cable sizes
- RoHS2 compliant

### BENEFITS

- Fully compatible with all QSFP+ interfaces and mechanical requirements, backwards compatible with QSFP
- Optimized signal integrity performance
- Meets signal performance requirements up to 5 meter lengths
- Enables system communication; industry standard memory map compliance with possible customization
- Assures robust 360° EMI shielding effectiveness
- Assures consistent cable performance
- Provides cost and performance optimized solutions across multiple cable assembly lengths
- Environmentally friendly

## TECHNICAL INFORMATION

### MATERIAL

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

### ELECTRICAL PERFORMANCE

- Differential Impedance:  $100\Omega \pm 10\Omega$
- 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:  $180^\circ$  flex; SFF-8417

### ENVIRONMENTAL

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

## PART NUMBERS

Description	Type	Part Numbers
QSFP28G to 4XSFP28G Cable	30AWG 1.0 meter	NDAQGF-0001
QSFP28G to 4XSFP28G Cable	30AWG 2.0 meter	NDAQGF-0002
QSFP28G to 4XSFP28G Cable	30AWG 3.0 meter	NDAQGF-0003
QSFP28G to 4XSFP28G Cable	30AWG 0.5 meter	NDAQGF-0004
QSFP28G to 4XSFP28G Cable	30AWG 1.5 meter	NDAQGF-0005
QSFP28G to 4XSFP28G Cable	30AWG 2.5 meter	NDAQGF-0006
QSFP28G to 4XSFP28G Cable	28AWG 1.0 meter	NDAQGG-0001
QSFP28G to 4XSFP28G Cable	28AWG 2.0 meter	NDAQGG-0002
QSFP28G to 4XSFP28G Cable	28AWG 3.0 meter	NDAQGG-0003
QSFP28G to 4XSFP28G Cable	28AWG 4.0 meter	NDAQGG-0004
QSFP28G to 4XSFP28G Cable	26AWG 2.0 meter	NDAQGJ-0002
QSFP28G to 4XSFP28G Cable	26AWG 3.0 meter	NDAQGJ-0003
QSFP28G to 4XSFP28G Cable	26AWG 4.0 meter	NDAQGJ-0004
QSFP28G to 4XSFP28G Cable	26AWG 5.0 meter	NDAQGJ-0005

### 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



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