

# **DSFP Cable Assemblies**

### 10G/25G/50G

Amphenol's DSFP cable assemblies are designed to support applications for Ethernet and Fibre Channel. The Amphenol DSFP products offer an ultra-high-performance, cost-effective solution for 10G/25G/50G speed applications in switched fabric I/O, switches, routers, data storage arrays, and high-performance computer (HPC) clusters. The Small Form Factor Pluggable (SFP) interface supports a variety of communications standards including Fibre Channel, 10G/25G/50G Ethernet, InfiniBand, and SONET.

- 10G/25G/50G Ethernet, 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 several lengths for both passive and active solutions
- Fully compatible with Amphenol's SFP+/28/56 board connectors and cages as well as other competitive industry standard connector systems



#### **FEATURES**

- Fully compliant to the latest SFP MSA
- Optimized PCB with auto soldering process
- Stamped EMI Ground Finger
- EEPROM in cable assembly
- Enables 10/25/50 Gb/s per channel transmission
- 32AWG 26AWG cable sizes
- Passive Direct Attachment Cables (DAC)
- Cable unlatching options either push-to-release or pullto-release
- RoHS 2 compliant

#### **BENEFITS**

- Support to connect any security free SFP port
- Exceeds 10G/25G/50G electrical performance requirement
- Assure 360° EMI shielding effectiveness
- Industry memory map compliance or customized
- Supports industry standards like GbE, FC, etc.
- Supports cable length from 0.25 meter to 4 meter
- Supports 56G up to 4m
- Pull-to-release is great for high density applications
- 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 10G/25G/50G 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
- RoHS 2 Compliant

#### **SPECIFICATIONS**

- Refer to the latest revision specification of the SFP small form factor pluggable module
- Applicable IEEE specifications:
  - SFF-8431
- IEEE802.3by
- IEEE802.3cd
- IEEE802.3ck

#### **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

## **DSFP Cable Assemblies**

# **PART NUMBERS**

Description	Part Numbers	Part Numbers
50G Ethernet Passive DSFP Copper Cable	26AWG Dual Drain LSZH Jacket, 3m	NJFAA1-0003
50G Ethernet Passive DSFP Copper Cable	30AWG Dual Drain LSZH Jacket, 1m	NJFAA3-0001
50G Ethernet Passive DSFP Copper Cable	28AWG Dual Drain Jacketed, 2m	NJFAA7-0002
50G Ethernet Passive DSFP Copper Cable	32AWG Single Drain Jacketed, 1m	NJFFAE-0001
50G Ethernet Passive DSFP Copper Cable	32AWG Single Drain Jacketed, 1.5m	NJFFAE-0006
50G Ethernet Passive DSFP Copper Cable	32AWG Single Drain Jacketed, 0.5m	NJFFAE-0007
50G Ethernet Passive DSFP Copper Cable	30AWG Single Drain Jacketed, 1m	NJFFAF-0001
50G Ethernet Passive DSFP Copper Cable	30AWG Single Drain Jacketed, 2m	NJFFAF-0002
50G Ethernet Passive DSFP Copper Cable	30AWG Single Drain Jacketed, 1.5m	NJFFAF-0006
50G Ethernet Passive DSFP Copper Cable	30AWG Single Drain Jacketed, 0.5m	NJFFAF-0007
50G Ethernet Passive DSFP Copper Cable	28AWG Single Drain Jacketed, 1m	NJFFAG-0001
50G Ethernet Passive DSFP Copper Cable	28AWG Single Drain Jacketed, 2m	NJFFAG-0002
50G Ethernet Passive DSFP Copper Cable	28AWG Single Drain Jacketed, 2.5m	NJFFAG-0005
50G Ethernet Passive DSFP Copper Cable	28AWG Single Drain Jacketed, 1.5m	NJFFAG-0006
50G Ethernet Passive DSFP Copper Cable	26AWG Single Drain Jacketed, 1m	NJFFAJ-0001
50G Ethernet Passive DSFP Copper Cable	26AWG Single Drain Jacketed, 2m	NJFFAJ-0002
50G Ethernet Passive DSFP Copper Cable	26AWG Single Drain Jacketed, 3m	NJFFAJ-0003
50G Ethernet Passive DSFP Copper Cable	26AWG Single Drain Jacketed, 2.5m	NJFFAJ-0005
50G Ethernet Passive DSFP Copper Cable	26AWG Single Drain Jacketed, 1.5m	NJFFAJ-0006
50G Ethernet Passive DSFP Copper Cable	26AWG Single Drain Jacketed, 3.5m	NJFFAJ-0008
50G Ethernet Passive DSFP Copper Cable	32AWG Single Drain Jacketed, 1m	NJFFBE-0001
50G Ethernet Passive DSFP Copper Cable	32AWG Single Drain Jacketed, 2m	NJFFBE-0002
50G Ethernet Passive DSFP Copper Cable	32AWG Single Drain Jacketed, 2.5m	NJFFBE-0005
50G Ethernet Passive DSFP Copper Cable	32AWG Single Drain Jacketed, 1.5m	NJFFBE-0006
50G Ethernet Passive DSFP Copper Cable	32AWG Single Drain Jacketed, 0.5m	NJFFBE-0007
50G Ethernet Passive DSFP Copper Cable	30AWG Single Drain Jacketed, 1m	NJFFBF-0001
50G Ethernet Passive DSFP Copper Cable	30AWG Single Drain Jacketed, 2m	NJFFBF-0002
50G Ethernet Passive DSFP Copper Cable	30AWG Single Drain Jacketed, 3m	NJFFBF-0003
50G Ethernet Passive DSFP Copper Cable	30AWG Single Drain Jacketed, 2.5m	NJFFBF-0005
50G Ethernet Passive DSFP Copper Cable	30AWG Single Drain Jacketed, 1.5m	NJFFBF-0006

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## **PART NUMBERS**

Description	Part Numbers	Part Numbers
50G Ethernet Passive DSFP Copper Cable	30AWG Single Drain Jacketed, 0.5m	NJFFBF-0007
50G Ethernet Passive DSFP Copper Cable	28AWG Single Drain Jacketed, 1m	NJFFBG-0001
50G Ethernet Passive DSFP Copper Cable	28AWG Single Drain Jacketed, 2m	NJFFBG-0002
50G Ethernet Passive DSFP Copper Cable	28AWG Single Drain Jacketed, 3m	NJFFBG-0003
50G Ethernet Passive DSFP Copper Cable	28AWG Single Drain Jacketed, 4m	NJFFBG-0004
50G Ethernet Passive DSFP Copper Cable	28AWG Single Drain Jacketed, 2.5m	NJFFBG-0005
50G Ethernet Passive DSFP Copper Cable	28AWG Single Drain Jacketed, 1.5m	NJFFBG-0006
50G Ethernet Passive DSFP Copper Cable	30AWG Single Drain Jacketed, 1m	NJFVAF-0001
50G Ethernet Passive DSFP Copper Cable	30AWG Single Drain Jacketed, 2m	NJFVAF-0002
50G Ethernet Passive DSFP Copper Cable	30AWG Single Drain Jacketed, 1.5m	NJFVAF-0004
50G Ethernet Passive DSFP Copper Cable	30AWG Single Drain Jacketed, 0.5m	NJFVAF-0007
50G Ethernet Passive DSFP Copper Cable	26AWG Single Drain Jacketed, 2m	NJFVAJ-0002
50G Ethernet Passive DSFP Copper Cable	26AWG Single Drain Jacketed, 3m	NJFVAJ-0003
50G Ethernet Passive DSFP Copper Cable	26AWG Single Drain Jacketed, 5m	NJFVAJ0005
50G Ethernet Passive DSFP Copper Cable	26AWG Single Drain Jacketed, 2.5m	NJFVAJ-0008