

100G Omni-Path Copper DAC Cables

AMPHENOL ICC & INTEL TESTED OMNI-PATH COPPER DAC CABLE ASSEMBLIES

Amphenol ICC's Omni-Path passive copper cable assemblies have been tested in conjunction with Intel for use with Omni-Path enabled hardware platforms as well as with Omni-Path compliant hardware supplied by a supplier partner network. Cables are offered up to 4 meter using 30AWG cable to the majority of inter-cabinet and short reach intra-cabinet cable connections minimizing cable bulk and cable routing issues. Longer lengths- up to 6 meter- are offered to maximize the length at which copper cables can be used. These cables use 26AWG high performance bulk cable. All cables are 100% tested to assure adherence to the Omni-Path performance criteria.

- Fully tested with Intel to the Omni-Path architecture & performance specification Omni-Path compatible copper cable assemblies
- 4 meter lengths using 30AWG cable; 6 meter lengths using 26AWG cable
- Provides inter-cabinet and short reach intra-cabinet cabling solution
- Aligned with Omni-Path hardware partner's product offerings
- Part of Amphenol ICC's comprehensive Omni-Path interconnect link products portfolio

FEATURES

- Meets Omni-Path performance specification
- Highly engineered mating PCB
- Controlled, monitored and automated wire management & wire termination process
- QSFP industry standard interface
- Use of 30AWG cable up to 4 meter
- Use of 26AWG cable up to 6 meter
- Easy to use cable pull tab
- RoHS2 compliant



TARGET MARKETS



BENEFITS

- Tested & verified cable performance in conjunction with Intel
- Assures 100G Omni-Path defined performance
- Repeatable, stable, high quality cable performance
- Assured matability across various Omni-Path hardware platforms
- Minimizes cable bulk and routing issues inside the cabinet
- Lower cost cabling solution compared to using optics
- Simple cable extraction
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Nickel plated zinc die cast covers and pull release
- Thermoplastic cable pull tab
- Nelco 4000 laminated PCB with gold finger & solder pads
- 8 differential pair cable with EMI shielding braid & LSZH or PVC jacketing

ELECTRICAL PERFORMANCE

- Differential Impedance: $100\Omega \pm 10\Omega$
- Dielectric withstanding voltage per EIA 364-20

MECHANICAL PERFORMANCE

- Durability per EIA 364-09
- Cable flex testing per EIA 364-41
- Mechanical shock testing per EIA 364-27

ENVIRONMENTAL

- Thermal shock testing per EIA 364-32C
- Temperature life testing per EIA 364-17

APPROVALS AND CERTIFICATIONS

- Omni-Path Architecture verified & compliant
- RoHS2 Compliant

SPECIFICATION

- Amphenol Product Specification: GS-12-1436
- Small Form Factor Connector Interface: SFF-8436

PACKAGING

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

TARGET MARKETS/APPLICATIONS



Datacom



High Performance Computing (HPC)



High Computational Modeling & Simulation
Measurement Equipment
Testing Equipment

PART NUMBERS

Description	Part Numbers
Omni-Path copper cable, 30AWG, 0.5 meter	10139406-2005LF
Omni-Path copper cable, 30AWG, 1.0 meter	10139406-2010LF
Omni-Path copper cable, 30AWG, 1.5 meter	10139406-2015LF
Omni-Path copper cable, 30AWG, 2.0 meter	10139406-2020LF
Omni-Path copper cable, 30AWG, 3.0 meter	10139406-2030LF
Omni-Path copper cable, 30AWG, 4.0 meter	10139406-2040LF
Omni-Path copper cable, 26AWG, 3.0 meter	10139406-4030LF
Omni-Path copper cable, 26AWG, 4.0 meter	10139406-4040LF
Omni-Path copper cable, 26AWG, 5.0 meter	10139406-4050LF
Omni-Path copper cable, 26AWG, 6.0 meter	10139406-4060LF