## Overview

The Wave2Wave 100GbE QSFP28 Direct Attach Copper (DAC) cable delivers a high-performance, cost-efficient interconnect for data center, SAN, and HPC environments. Supporting 100GbE and InfiniBand EDR, it provides low latency, strong signal integrity, and power-free operation for short-reach applications.

Compliant with SFF-8665 and IEEE 802.3bj 100GBASE-CR4 standards, these passive copper cables ensure multi-vendor interoperability and consistent performance in dense, high-bandwidth network architectures.

Wave2Wave QSFP28 DACs enable fast, reliable plug-and-play connectivity between QSFP ports—ideal for scalable, energy-efficient 100G infrastructure.

### Features and Benefits

- Fully compliant with SFF-8665 QSFP28 standard
- 4-channel full-duplex passive copper construction
- Supports 25Gbps per channel (aggregate 100Gbps)
- IEEE 802.3bj 100GBASE-CR4 compliant
- Copper lengths up to 3 meters
- +3.3V power supply, no active components required
- Low crosstalk and minimal skew for signal reliability
- I2C-based EEPROM interface with customizable signature
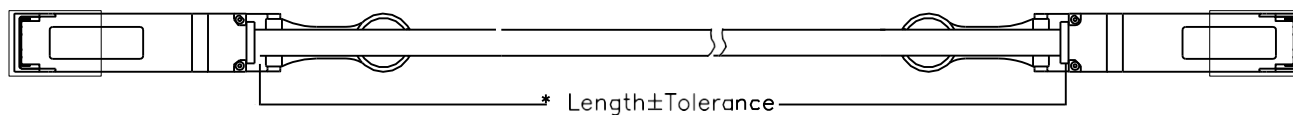- Operating temperature: 0°C to 70°C

### Applications

- 100GbE Ethernet interconnects
- Fiber Channel over Ethernet (FCoE)
- High-performance computing (HPC) systems
- Switch, router, and HBA connections
- Enterprise and SAN environments
- Data center networks

### Recommended Operating Conditions

| Parameter | Symbol | Min | Typical | Max | Unit |
|---|---|---|---|---|---|
| Storage Ambient Temperature | | -40 | | +85 | ºC |
| Operating Case Temperature | Tc | 0 | | +70 | ºC |
| Power Supply Voltage | Vcc3 | 3.14 | 3.3 | 3.47 | V |
| Data Rate Per Lane | | 1 | | 25.78 | Gb/s |

## Mechanical Diagram



* Length±Tolerance

### Product Selection

| Part Number: 75-Z0401-XX | | Length | AWG |
|---|---|---|---|
| xx | 1M | 1 meter cable | 30 |
| | 2M | 2 meter cable | 30 |
| | 3M | 3 meter cable | 30 |
| | 4M | 4 meter cable | 24 |
| | 5M | 5 meter cable | 24 |

*Custom Cable Lengths and Colors also Available*

### Standards Compliance

- IEEE 802.3bj
- InfiniBand EDR
- SFF-8436
- SFF-8665
- QSFP28 MSA
- RoHS

RoHS