

QSFP28 (100G) to 4x SFP28 (25G) DAC Cable

SKU#: ECX-QSFP28-4SFP28-DAC-XX-XXM

The Enconnex Direct Attach Copper (DAC) cable offers customers a high-performance, low cost, less power consumption, and low latency connectivity option. This QSFP28 supports data rates of up to 100G. Each DAC cable is fully tested for compatibility and are MSA (Multi Source Agreement) compliant.

PRODUCT APPLICATIONS

- Low EMI radiation Switches, servers, and router
- Data Center networks
- Storage area networks
- High-performance computing
- Telecommunication and wireless infrastructure
- Medical diagnostics and networking
- Test and measurement equipment

PRODUCT FEATURES

- 100GbE to 4x25GbE data rate
- SFF-8402 SFP28 compliant
- SFF-8665 QSFP28 compliant
- Operating case temperature of 0 - 70°C
- Single 3.3V supply voltage
- BER better than 10e-15
- Hot pluggable
- RoHS compliant
- SFF-8431/8432 compliant
- IEEE 802.3bj and P802.3by compliant



Figure 1: QSFP28 (100G) to 4x SFP28 (25G) DAC Cable

RECOMMENDED OPERATING CONDITION

Parameter	Symbol	Min	Max	Unit
Operating Case Temperature	Topc	0	70	degC
Storage Temperature	Tst	-40	125	degC
Relative Humidity (non-condense)	RS	-	85	%
Supply Voltage	VCC3	3.135	3.465	V
Voltage on LVTTTL Input	Vilvttl	-0.3	VCC3+0.2	V
Power Supply Current	ICC3	0.001	-	mA
Total Power Consumption	Pd	-	0.003	W

Notes:

Stress or conditions exceed the above range may cause permanent damage to the device.

This is a stress rating only and functional operation of the device at these or any other conditions above those listed in the operational sections of this specification is not applied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

MECHANICAL SPECIFICATIONS

Parameter	Minimum	Typical	Maximum	Unit
Cable Diameter (28 AWG)		0.185		Inches
Bend Radius (28 AWG)	0.925			Inches
Cable Diameter (30 AWG)		0.181		Inches
Bend Radius (30 AWG)	0.905			Inches
Within Pair Skew			60	ps/5m
Cable Insertion Loss		24.06		dB/5m
Bulk Cable Time Delay			5.2	ns/m
Bulk Cable Impedance	95	100	105	Ohms
Insertion Force	/		QSFP28: 40 SFP28:18	N
Withdrawal Force	/		QSFP28: 30 SFP28:12.5	N
Retention Force	90		/	N
Durability	QSFP28: 250 Cycles SFP28: 250 Cycles		/	/