

SFP28 (25G) AOC Cable

SKU#: ECX-QSFP-AOC-XX-XXM

The Enconnex Active Optical Cable (AOC) cable offers customers a high-performance, low cost, less power consumption, and low latency connectivity option. This SFP28 supports data rates of up to 25G. Each AOC cable is fully tested for compatibility and are MSA (Multi Source Agreement) compliant.



Figure 1: SFP28 (25G) AOC Cable

PRODUCT APPLICATIONS

- 25GBASE-SR Ethernet
- Servers, switches, storage and host card adapters

PRODUCT FEATURES

- Electrical interface compliant with SFF-8431
- 850nm VCSEL laser and PIN photo-detector
- Maximum link length of 70m on OM3 MMF
- Digital diagnostics functions are available via the I2C interface
- Operating case temperature Commercial: 0°C to +70°C
- +3.3V single power supply
- Power consumption of less than 1W
- RoHS compliant
- Password protection for A0h and A2h

SPECIFICATIONS

SKU	Description
ECX-SFP28-AOC-XX-1M	Enconnex, SFP28 (25G), Multimode, Active Optical Cable, [Manufacturer] Compatible, 1M
ECX-SFP28-AOC-XX-2M	Enconnex, SFP28 (25G), Multimode, Active Optical Cable, [Manufacturer] Compatible, 2M
ECX-SFP28-AOC-XX-3M	Enconnex, SFP28 (25G), Multimode, Active Optical Cable, [Manufacturer] Compatible, 3M
ECX-SFP28-AOC-XX-5M	Enconnex, SFP28 (25G), Multimode, Active Optical Cable, [Manufacturer] Compatible, 5M
ECX-SFP28-AOC-XX-7M	Enconnex, SFP28 (25G), Multimode, Active Optical Cable, [Manufacturer] Compatible, 7M
ECX-SFP28-AOC-XX-10M	Enconnex, SFP28 (25G), Multimode, Active Optical Cable, [Manufacturer] Compatible, 10M
ECX-SFP28-AOC-XX-15M	Enconnex, SFP28 (25G), Multimode, Active Optical Cable, [Manufacturer] Compatible, 15M
ECX-SFP28-AOC-XX-20M	Enconnex, SFP28 (25G), Multimode, Active Optical Cable, [Manufacturer] Compatible, 20M

RECOMMENDED OPERATING CONDITIONS

Parameter	Symbol	Min	Typical	Maximum	Unit
Operating Temperature	Tc	0	-	+70	°C
Power Supply Voltage	Vcc	3.14	3.3	3.47	V
Power Supply Current	Icc	-	-	300	mA
Power Dissipation	Pd	-	-	1.0	W
Bit Rate	BR	8.5	25.78125	-	Gbps
Fiber Bend Radius	Rb	3	-	-	cm

MECHANICAL SPECIFICATIONS

Parameter	Value	Unit
Diameter	3	mm
Minimum Bend Radius	30	mm
Length Tolerance	Length < 1 m: +5 / -0 cm	cm
	1 m ≤ length ≤ 4.5 m: +15 / -0 cm	cm
	5 m ≤ length ≤ 14.5 m: +30 / -0 cm	cm
	Length ≥ 15.0 m +2% / -0	m
Cable Color	Aqua (OM3), Magenta (OM4)	