

AOC DATA SHEET

100G Active Optical Cables



Champion ONE's 100G Active Optical Cables (AOCs) fill the need for short-range, cost-effective connectivity. In high-capacity interconnections, AOCs provide a power-efficient, easy-to-use replacement for optical transceivers and fiber jumper cables. These cables are fully compliant with EEPROM and memory map requirements to assure proper system identification and interoperability.

Champion ONE offers both straight QSFP28 and breakout cables with 4x25G SFP28 optics at one end for breakout/aggregation applications.

Technical Specifications

STANDARDS AND REGULATORY COMPLIANCE

RoHS compliant
IEEE802.3bm
QSFP28 MSA
SFP28 MSA

PROTOCOLS AND DATA RATES

100G Ethernet (103.125 Gbps)
25G Ethernet (breakout only)
Infiniband EDR

DIMENSIONS

LxWxH (mm): 72 (122 incl. pull ring) x 18.4 x 8.5
1m to 100m multimode fiber

CONNECTOR

Cables terminate with their respective form factors.

WARRANTY

All feature a limited lifetime warranty.

NOTES

See page 2 for programming compatibility capabilities.

C1 Part Number ¹	Transmit Wavelength (nm)	Fiber Type	Standard Rated Distance (m) ²	Temp Range (°C)	Description	Max Power Consumption (W)
100G ETHERNET						
CAB-QSFP28-QSFP28-AOC-xM-C1	850	MMF	x = 1,2,3,5,10,20,30,50,100	0 to 70	QSFP28 to QSFP28 Active Optical Cable, xx meters	2.5
100G ETHERNET TO 4X25G ETHERNET						
CAB-QSFP28-4SFP25G-AOC-xM-C1	850	MMF	x = 1,2,3,4,5,6,7,8,9,10,20,30	0 to 70	QSFP28 to 4xSFP28 Breakout Active Optical Cable, xx meters	1.0W (per SFP28) 2.5 (QSFP28)

- These part numbers are for **Passport** universal cables, which can be used across multiple platforms and open systems. For programmed options, please refer to page 2.
- Custom lengths are available in whole meter increments between the standard minimum and maximum length.

Ordering Information: Programmed Cables

To order a cable programmed for use in a specific system, simply add “-C1” to the end of your network platform part number. For example, to order a 3m AOC programmed for 100% Cisco compatibility, your C1 part number will be **QSFP-100G-AOC3M-C1**.

The technical specifications listed on page 1 will be the same for all programmed options.

Ordering Information: Multi-Vendor Programmed Cables

For multi-vendor environments that require programming for one-to-one compatibility, please use the following scheme:

PART NUMBER SCHEME:

QSFP100G-XX₁XX₂-AOC-YM-C1
 Q100X25G-XX₁XX₂-AOC-YM-C1

XX _N	Vendor Brand		
AC	Accedian	F5	F5 Networks
AD	Adtran	FN	Fortinet
AL	Alcatel	HP	HP
AN	Arista	IB	IBM
AR	Aruba	IN	Intel
AV	Avaya	JN	Juniper
BC	Broadcom	LN	Lenovo
BR	Brocade	MK	Meraki
CX	Calix	MX	Mellanox
CS	Cisco	NP	NetApp
CD	Cohesity	NX	Nutanix
DF	Dell	PA	Palo Alto
EN	Enterasys	RB	Rubrik
EX	Extreme	XN	Xilinx

Y	Cable Length
50C	50 cm
1	1 m
2	2 m
3	3 m
4	4 m
5	5 m