

CAB-O-8S-200G-3M-AO

Arista Networks® CAB-O-8S-200G-3M Compatible TAA Compliant 200GBase-CU OSFP to 8xSFP28 Direct Attach Cable (Passive Twinax, 3m)

Features

- OSFP MSA compliant
- 8 parallel full-duplex channels
- Compliant to IEEE802.3BJ
- Pluggable/Direct Attach
- Wire Gauge: 30 AWG
- 3m Length
- High-Speed Cable Assembly
- RoHS compliant



Applications

- 200G Ethernet

Product Description

This is an Arista Networks® CAB-O-8S-200G-3M compatible 200GBase-CU OSFP to 8xSFP28 direct attach cable that operates over passive copper with a maximum reach of 3.0m (9.8ft). It has been programmed, uniquely serialized, and data-traffic and application tested to ensure it is 100% compliant and functional. This direct attach cable is TAA (Trade Agreements Act) compliant, and is built to comply with MSA (Multi-Source Agreement) standards. We stand behind the quality of our products and proudly offer a limited lifetime warranty.

AddOn's direct attach cables are RoHS compliant and lead free.

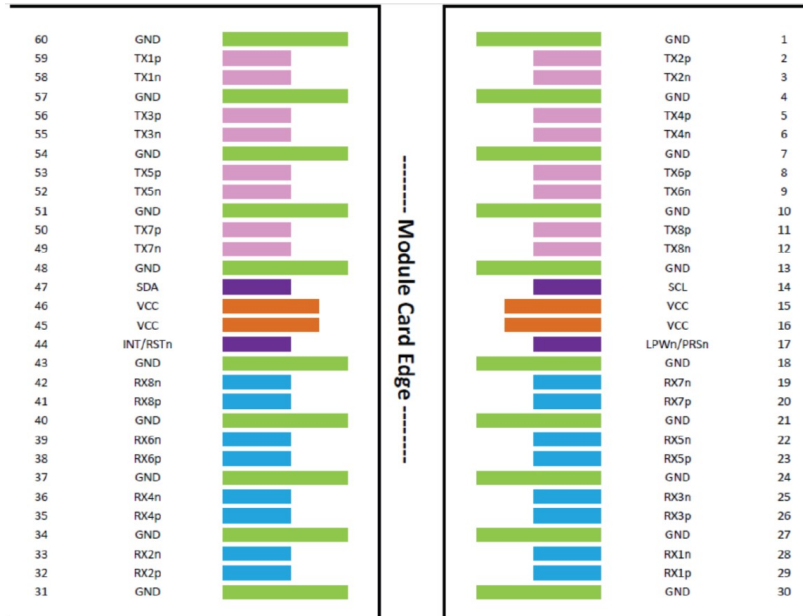
TAA refers to the Trade Agreements Act (19 U.S.C. & 2501-2581), which is intended to foster fair and open international trade. TAA requires that the U.S. Government may acquire only "U.S. – made or designated country end products."



General Characteristics

Parameter	Specification
Product Type Features	
Cable Assembly Category	High Speed
Cable Assembly Type	Pluggable/Direct Attach
Connector End 1 Type	OSFP
Connector End 2 Type	SFP28 (8)
Assembly Color	Black
Cable Assembly Length	3m (9.8ft)
Electrical Characteristics	
Isolation Resistance	100 Ω
Conductor Resistance	2 Ω Max.
Voltage	5V
Dimensions	
Wire Gauge	30 AWG
Body Features	
Jacket Material	PVC

OSFP Electrical Pin-out Assignment

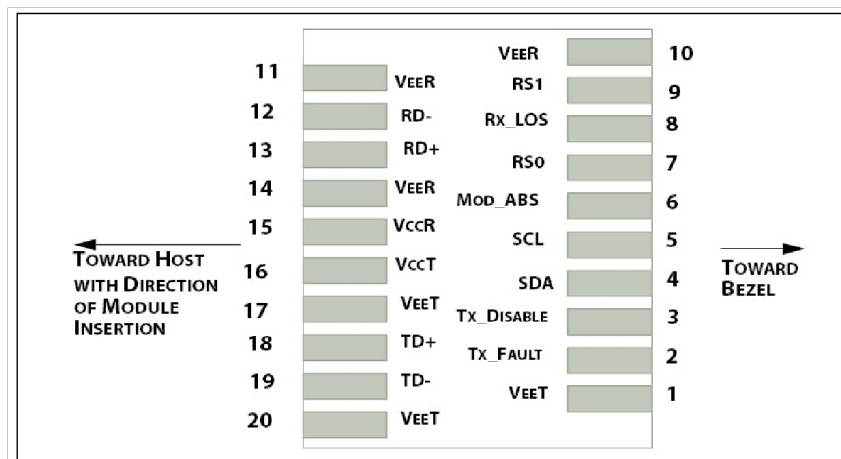


OSFP Pin Descriptions

Pin #	Symbol	Description	Logic	Direction	Plug Sequence
1	GND		Ground		1
2	TX2p	Transmitter Data Non-Inverted	CML-I	Input from Host	3
3	TX2n	Transmitter Data Inverted	CML-I	Input from Host	3
4	GND		Ground		1
5	TX4p	Transmitter Data Non-Inverted	CML-I	Input from Host	3
6	TX4n	Transmitter Data Inverted	CML-I	Input from Host	3
7	GND		Ground		1
8	TX6p	Transmitter Data Non-Inverted	CML-I	Input from Host	3
9	TX6n	Transmitter Data Inverted	CML-I	Input from Host	3
10	GND		Ground		1
11	TX8p	Transmitter Data Non-Inverted	CML-I	Input from Host	3
12	TX8n	Transmitter Data Inverted	CML-I	Input from Host	3
13	GND		Ground		1
14	SCL	2-wire Serial interface clock	LVC MOS-I/O	Bi-directional	3
15	VCC	+3.3V Power		Power from Host	2
16	VCC	+3.3V Power		Power from Host	2
17	LPWn/PRSn	Low-Power Mode / Module Present	Multi-Level	Bi-directional	3
18	GND		Ground		1
19	RX7n	Receiver Data Inverted	CML-O	Output to Host	3
20	RX7p	Receiver Data Non-Inverted	CML-O	Output to Host	3
21	GND		Ground		1
22	RX5n	Receiver Data Inverted	CML-O	Output to Host	3
23	RX5p	Receiver Data Non-Inverted	CML-O	Output to Host	3
24	GND		Ground		1
25	RX3n	Receiver Data Inverted	CML-O	Output to Host	3
26	RX3p	Receiver Data Non-Inverted	CML-O	Output to Host	3
27	GND		Ground		1
28	RX1n	Receiver Data Inverted	CML-O	Output to Host	3
29	RX1p	Receiver Data Non-Inverted	CML-O	Output to Host	3
30	GND		Ground		1
31	GND		Ground		1
32	RX2p	Receiver Data Non-Inverted	CML-O	Output to Host	3
33	RX2n	Receiver Data Inverted	CML-O	Output to Host	3
34	GND		Ground		1
35	RX4p	Receiver Data Non-Inverted	CML-O	Output to Host	3
36	RX4n	Receiver Data Inverted	CML-O	Output to Host	3
37	GND		Ground		1
38	RX6p	Receiver Data Non-Inverted	CML-O	Output to Host	3

Pin #	Symbol	Description	Logic	Direction	Plug Sequence
39	RX6n	Receiver Data Inverted	CML-O	Output to Host	3
40	GND		Ground		1
41	RX8p	Receiver Data Non-Inverted	CML-O	Output to Host	3
42	RX8n	Receiver Data Inverted	CML-O	Output to Host	3
43	GND		Ground		1
44	INT/RSTn	Module Interrupt / Module Reset	Multi-Level	Bi-directional	3
45	VCC	+3.3V Power		Power from Host	2
46	VCC	+3.3V Power		Power from Host	2
47	SDA	2-wire Serial interface data	LVC MOS-I/O	Bi-directional	3
48	GND		Ground		1
49	TX7n	Transmitter Data Inverted	CML-I	Input from Host	3
50	TX7p	Transmitter Data Non-Inverted	CML-I	Input from Host	3
51	GND		Ground		1
52	TX5n	Transmitter Data Inverted	CML-I	Input from Host	3
53	TX5p	Transmitter Data Non-Inverted	CML-I	Input from Host	3
54	GND		Ground		1
55	TX3n	Transmitter Data Inverted	CML-I	Input from Host	3
56	TX3p	Transmitter Data Non-Inverted	CML-I	Input from Host	3
57	GND		Ground		1
58	TX1n	Transmitter Data Inverted	CML-I	Input from Host	3
59	TX1p	Transmitter Data Non-Inverted	CML-I	Input from Host	3
60	GND		Ground		1

SFP28 Electrical Pin-out Assignment



SFP28 Pin Descriptions

Pin	Logic	Symbol	Name/Descriptions	Ref.
1		VeeT	Module Transmitter Ground	1
2	LVTTTL-O	Tx_Fault	Transmitter Fault	2
3	LVTTTL-I	Tx_Disable	Transmitter Disable	3
4	LVTTTL-I/O	SDA	MOD-DEF2 2-wire serial interface data line	4
5	LVTTTL-I/O	SCL	MOD-DEF1 2-wire serial interface clock line	4
6		Mod_Abs	Module Absent	5
7	LVTTTL-I	RS0	Rate Select Zero	
8	LVTTTL-O	Rx_LOS	Module Receiver Loss of Signal	2
9	LVTTTL-I	RS1	Rate Select One	
10		VeeR	Module Receiver Ground	1
11		VeeR	Module Receiver Ground	1
12	CML-O	RD-	Receiver Inverted Data Output	
13	CML-O	RD+	Receiver Non-Inverted Data Output	
14		VeeR	Module Receiver Ground	1
15		VccR	Module Receiver 3.3V Supply	
16		VccT	Module Transmitter 3.3V Supply	
17		VeeT	Module Transmitter Ground	1
18	CML-I	TD+	Transmitter Non-Inverted Data Input	
19	CML-I	TD-	Transmitter Inverted Data Input	
20		VeeT	Module Transmitter Ground	1

Notes:

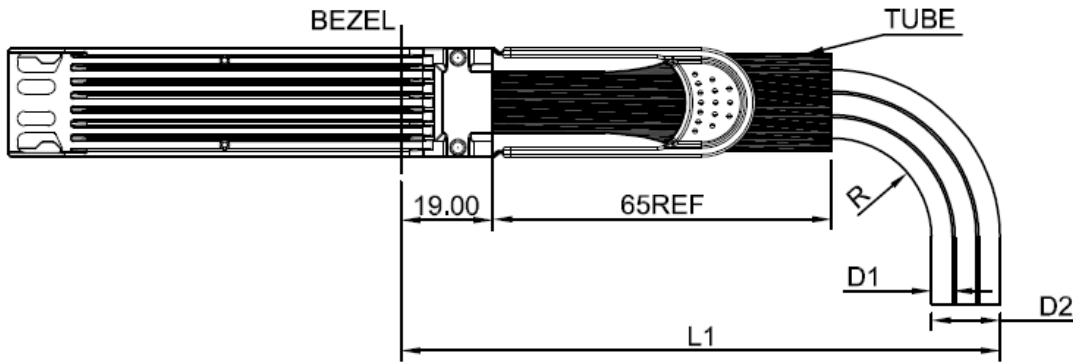
1. The module signal grounds, VeeR and VeeT, shall be isolated from the module case.
2. This is an open collector/drain output and shall be pulled up with 4.7-10k to Vcc_Host on the host board. Pull ups can be connected to multiple power supplies, however the host board design shall ensure that no module has voltage exceeding module VccT/R + 0.5 V.
3. This is an open collector/drain input and shall be pulled up with 4.7-10k to VccT in the module.
4. See 2-wire electrical specification.
5. This shall be pulled up with 4.7-10k to Vcc_Host on the host board.

Wiring Table

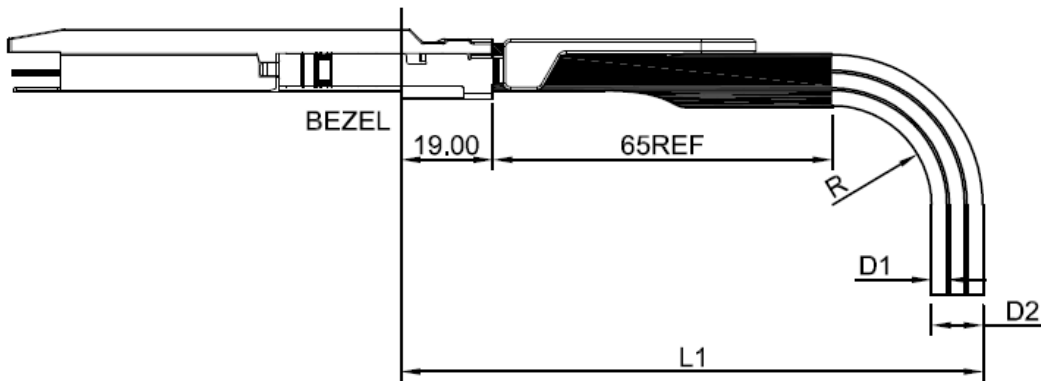
CONN-P0		SHIELD BRAIDING	CONN-P1—P8	
SHELL			SHELL	
GND			P12	RDn
TX1n	P58		P13	RDp
TX1p	P59			GND(RX)
GND				GND(TX)
GND			P18	TDp
RX1p	P29		P19	TDn
RX1n	P28			GND(RX)
GND				GND(TX)
GND				GND(RX)
TX2n	P3		P12	RDn
TX2p	P2		P13	RDp
GND				GND(RX)
GND				GND(TX)
RX2p	P32		P18	TDp
RX2n	P33		P19	TDn
GND				GND(RX)
GND				GND(TX)
TX3n	P55		P12	RDn
TX3p	P56	P13	RDp	
GND				GND(RX)
GND				GND(TX)
RX3p	P26		P18	TDp
RX3n	P25	P19	TDn	
GND				GND(RX)
GND				GND(TX)
TX4n	P6		P12	RDn
TX4p	P5	P13	RDp	
GND				GND(RX)
GND				GND(TX)
RX4p	P35		P18	TDp
RX4n	P36	P19	TDn	
GND			GND(TX)	

CONN-P0		SHIELD BRAIDING	CONN-P1—P8	
SHELL			SHELL	
GND			P12	RDn
TX5n	P52		P13	RDp
TX5p	P53			GND(RX)
GND				GND(TX)
GND			P18	TDp
RX5p	P23		P19	TDn
RX5n	P22			GND(RX)
GND				GND(TX)
GND				GND(RX)
TX6n	P9		P12	RDn
TX6p	P8		P13	RDp
GND				GND(RX)
GND				GND(TX)
RX6p	P38		P18	TDp
RX6n	P39		P19	TDn
GND				GND(RX)
GND				GND(TX)
TX7n	P49		P12	RDn
TX7p	P50	P13	RDp	
GND				GND(RX)
GND				GND(TX)
RX7p	P20		P18	TDp
RX7n	P19	P19	TDn	
GND				GND(RX)
GND				GND(TX)
TX8n	P12		P12	RDn
TX8p	P11	P13	RDp	
GND				GND(RX)
GND				GND(TX)
RX8p	P41		P18	TDp
RX8n	P42	P19	TDn	
GND			GND(TX)	

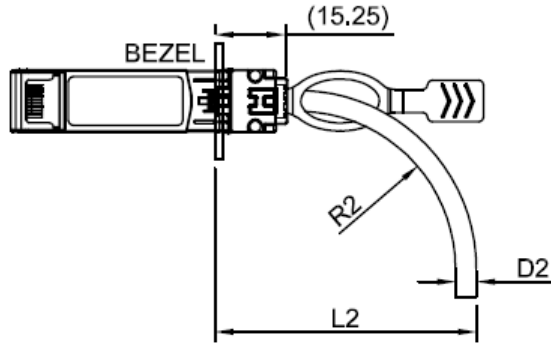
Wire Gauge and Bend Radius



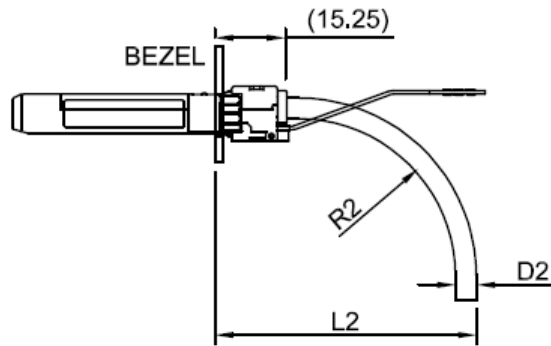
OSFP (Vertical Direction)				
CABLE GUAGE	DIAMETER "D1"	DIAMETER "D2"	MIN.BEND RADIUS "R"	MIN.BEND SPACE "L1"
30AWG	4.1MM	12.3MM	21MM	118MM



OSFP (Horizontal Direction)				
CABLE GUAGE	DIAMETER "D1"	DIAMETER "D2"	MIN.BEND RADIUS "R1"	MIN.BEND SPACE "L1"
30AWG	4.1MM	12.3MM	21MM	118MM

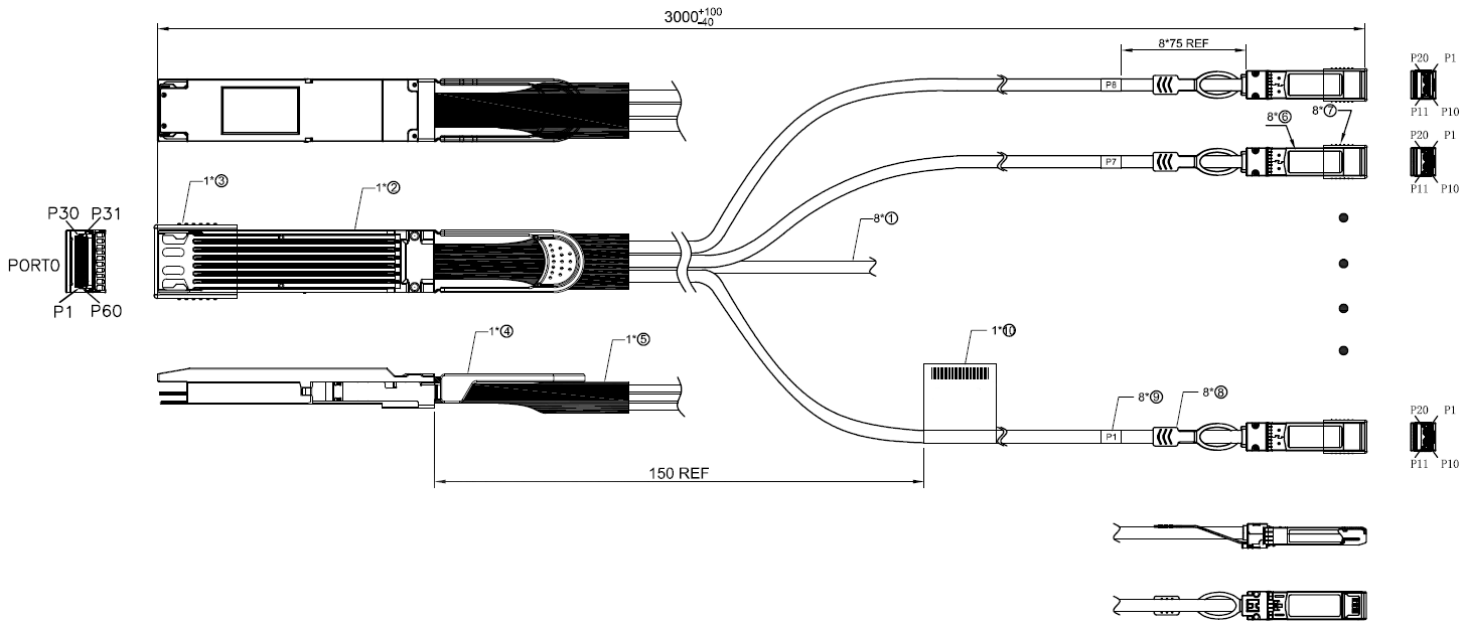


SFP28 (Horizontal Directlon)			
CABLE GUAGE	DIAMETER "D2"	MIN.BEND RADIUS "R2"	MIN.BEND SPACE "L2"
30AWG	4.1MM	20MM	40MM



SFP28 (Vertical Directlon)			
CABLE GUAGE	DIAMETER "D2"	MIN.BEND RADIUS "R2"	MIN.BEND SPACE "L2"
30AWG	4.1MM	20MM	40MM

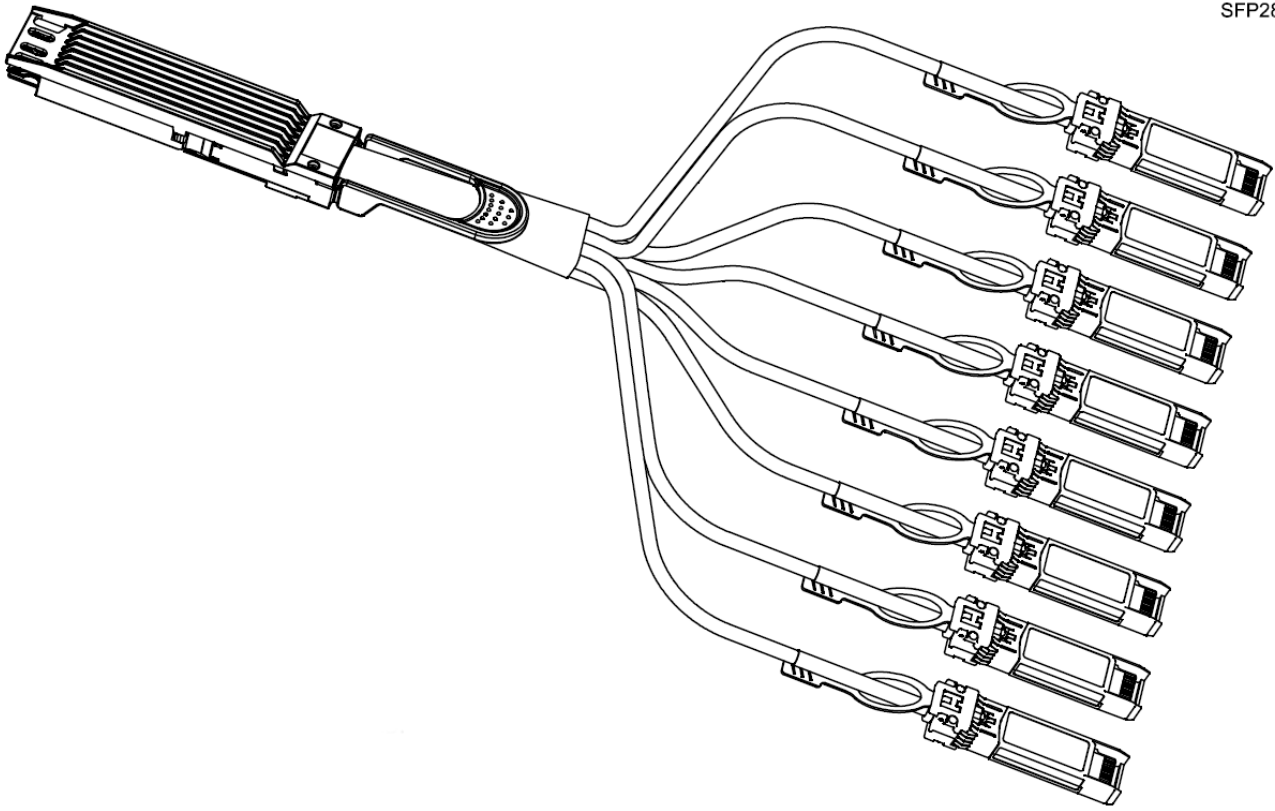
Mechanical Specifications



Item	Name	Description	Quantity	Unit
1	Cable	SFP28 2P PVC	A/R	mm
2	Plug 1	OSFP Plug, Reference OSFP MSA 3.0	1	PCS
3	Dust Cap 1	OSFP Dust Cap Black	1	PCS
4	Pull Tab 1	Stainless Steel + TPV, White	1	PCS
5	HST	Heat Shrink Tube, Black	1	PCS
6	Plug 2	SFP28 Plug	8	PCS
7	Dust Cap 2	SFP28 Dust Cap Blue	8	PCS
8	Pull Tab 2	SFP28 Latch PA66 Black	8	PCS
9	Label 1	15x35mm, White	8	PCS
10	Label 2	26x57mm, White	1	PCS

OSFP

SFP28 Side



About AddOn Networks

In 1999, AddOn Networks entered the market with a single product. Our founders fulfilled a severe shortage for compatible, cost-effective optical transceivers that compete at the same performance levels as leading OEM manufacturers. Adhering to the idea of redefining service and product quality not previously had in the fiber optic networking industry, AddOn invested resources in solution design, production, fulfillment, and global support.

Combining one of the most extensive and stringent testing processes in the industry, an exceptional free tech support center, and a consistent roll-out of innovative technologies, AddOn has continually set industry standards of quality and reliability throughout its history.

Reliability is the cornerstone of any optical fiber network and is engrained in AddOn's DNA. It has played a key role in nurturing the long-term relationships developed over the years with customers. AddOn remains committed to exceeding industry standards with certifications from ranging from NEBS Level 3 to ISO 9001:2005 with every new development while maintaining the signature reliability of its products.

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