

ODVA OUTDOOR FIBER OPTIC ASSEMBLIES - ODVA-xx



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NEXCONEC[®] IP68 ODVA optical fiber cable assemblies provide an environmental seal and mechanical protection for outdoor application. ODVA connectors are available in SC Simplex, LC Duplex or MTP[®]/MPO. They provide quick installation solutions and have good performance on mating with ODVA receptacles.

The assemblies guarantee an easy, one-step connection system with the combined push-pull insertion and bayonet-style mechanical latch.

FEATURES

- ✓ Available in SC Simplex, LC Duplex and MTP[®]/MPO Connectors
- ✓ Provides moisture and dust protection for use in harsh industrial environments
- ✓ IP68 protection, salt-mist proof, humidity proof, dust proof
- ✓ Sealed panel feed-through design for easy installation into enclosures
- ✓ 100% optically tested to ensure quality performance assemblies
- ✓ Available in single mode and multimode styles to work with any common fiber type
- ✓ Push-pull insertion with bayonet-style mechanical latch provides easy installation and removal
- ✓ A broad temperature range (-40 to +70°C) is ideal for indoor or outdoor applications

APPLICATIONS

- ✓ Broadcasting
- ✓ CATV
- ✓ RRH Remote Radio Head
- ✓ Military

MTP®/MPO CONNECTOR SPECIFICATIONS

Parameters	IL – Max	IL – Typical	RL
SM – Standard	0.75 dB	0.25 dB	> 60 dB
SM – Premium	0.35 dB	0.10 dB	> 60 dB
MM – Standard	0.60 dB	0.20 dB	> 20 dB
MM – Premium	0.35 dB	0.10 dB	> 20 dB

SINGLE FERRULE CONNECTOR SPECIFICATIONS

Parameters	IL – Max	IL – Typical	RL (PC/APC)
SM – Standard	≤ 0.30 dB	≤ 0.20 dB	> 55/65 dB
SM – Premium	≤ 0.15 dB	≤ 0.12 dB	> 55/65 dB
MM – Standard	≤ 0.30 dB	≤ 0.18 dB	> 28 dB
MM – Premium	≤ 0.15 dB	≤ 0.08 dB	> 28 dB

CABLE CHARACTERISTICS

Parameters	Units	Value		
		1FO	2FO	12FO
Fiber Count		1FO	2FO	12FO
Fiber Connector		SC Simplex	LC Duplex	MPO
LOOSE TUBE				
Outer Diameter (±0.3)	mm	6.0	6.0	6.0
Tensile Strength (max/min)	N	1000/500	1000/500	1500/600
Crush Resistance	N/100mm	1000	1000	1000

LOOSE TUBE FLEXIBLE STEEL TAPE ARMOUR

Outer Diameter	mm	5.0	5.0	5.0
Tensile Strength (max/min)	N	1000/500	1000/500	1500/600
Crush Resistance	N/100mm	1000	1000	1000
Minimum Bending Radius	mm	10D (installed)/20D (loaded)		
Cable Jacket Material		LSZH or PU		
Strength Member		E-glass		
Storage Temperature	°C	-40 ~ +70		
Operating Temperature	°C	-40 ~ +70		
Installation Temperature	°C	-10 ~ +50		

ORDER INFORMATION

ODVA	1	2	3	4	5	6
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1 END A	2 END B	CONNECTOR	2 FIBER COUNT	3 FIBER	4 CABLE CONSTRUCTION	5 JACKET MATERIAL	6 LENGTH	7 CONDITIONING
S1	S1	SC	1 1FO	A1 G657A1	L Loose tube	L LSZH		Standard
S2	S2	SC/APC	2 2FO	A2 G657A2	F Armor Mini Flex Loose tube	U PU		REEL On Deployable reel
L1	L1	LC	12 12FO	O3 OM3				
L2	L2	LC/APC		O4 OM4				
M3	M3	MPO Elite Female						
M4	M4	MPO Elite Male						

RELATED PRODUCTS AND ACCESSORIES

Product	Part Number	Product Description
	ODVA-B01	ODVA Box 12FO MPO(Male) Elite base12 to 6 ports LC Duplex Singlemode OS2
	ODVA-MT	ODVA Receptacle Thru MPO Adapter Opposed keys
	ODVA-SC	ODVA Receptacle SC Simplex Thru Adapter
	ODVA-LC	ODVA Receptacle LC Duplex Thru Adapter