



All Dielectric Armored Industrial FO Cable ADIA

Optrax ADIA is a High-Performance All Dielectric Armored fiber optic cable for outdoor industrial applications.

This fiber optic cable is an excellent choice for harsh industrial environments where excessive electromagnetic noise is a concern, like electrical substations or any other utility.

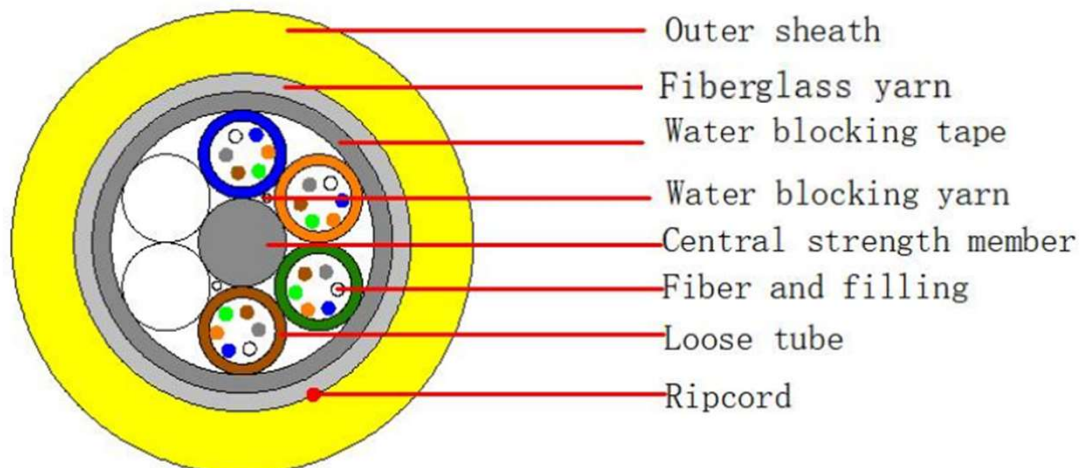
ADIA fiber optic cable is designed as a loose tube, general purpose outdoor cable armored with fiberglass yarns for rodent resistance with a high crush resistance.

A water blocking yarn and water blocking tape make it ideal for trench installation, since it can work even when temporarily submersed.

Capacity is up to 36 fibers in six tubes. Jacket standard colors are black, yellow and orange. Other colors available upon special order.

Features

- **All Dielectric**
- **Outdoor Applications**
- **MDPE High Crush Resistance Jacket**
- **Rip Cord**
- **Fiberglass Yarn Armor**
- **Water Blocking Tape**
- **Water Submersed Operation**
- **Black, Yellow or Orange Jacket**
- **Up to 36 fibers in six loose tubes configuration**
- **FRP Dielectric Central Strength Member**
- **Cable information indelibly printed in outer jacket**





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STRUCTURE PARAMETERS

Description	All Dielectric Industrial Armored Outdoor Fiber Optic Cable, Loose Tube
Cable Structure	6 Tubes, 6 fibers per tube, up to 36 fibers One FRP dielectric central strength member
Loose Tube	Material: PBT Nominal Diameter: 2.0 mm Tube Color: Blue, Orange, Green, Brown, Gray, White
Central Strength Member	Material: All Dielectric FRP & PE Nominal Diameter: 2.2 mm
Water Blocking	Yarn and Tape over tubes
Peripheral Strength Member (Armor)	Fiberglass Yarn
Rip Cord	Yes
Outer Jacket	MDPE
Jacket Colors	Black (K), Yellow (Y), Orange (N)
Jacket Thickness	1.6 mm
Jacket Diameter	12.8 mm +/- 5%

MECHANICAL PARAMETERS

Max. Tensile Load	Short Term: 2000 N (203 Kg) Long Term: 800 N (81.5 Kg)
Max. Crush Resistance	Short Term: 3000 N / 150 mm (305 Kg / 15 cm) Long Term: 1000 N / 150 mm (102 Kg / 15 cm)
Min. Bending Radius	Installation: 320 mm Operation: 160 mm
Temperature	Installation: -20°C to +60°C Operation: -40°C to +70°C Storage: -40°C to +70°C
Weight	127 Kg/Km, +/- 10%



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AVAILABLE FIBER OPTIC

	MULTIMODE				SINGLEMODE	
	OM1	OM2	OM3	OM4	OS1	OS2
Designator	OM1	OM2	OM3	OM4	OS1	OS2
Fiber Core Diameter	62.5 µm	50 µm	50 µm	50 µm	9 µm	9 µm
Fiber Cladding Diameter	125 µm	125 µm	125 µm	125 µm	125 µm	125 µm
Attenuation (dB/Km)						
850 nm	3.0	3.0	3.0	3.0	--	--
1300 nm	1.0	1.0	1.0	1.0	--	--
1310 nm	--	--	--	--	0.32	0.32
1550 nm	--	--	--	--	0.19	0.20
Wavelengths	850 / 1300 nm				1310, 1550 nm	
Notes	Laser Optimized OM3-10G, OM4-100G				G.652D	G.657
Fibers Color	Blue, Orange, Green, Brown, Gray, White					

ORDERING GUIDE, SELECT DESIRED VALUES, SEPARTED BY -

ADIA	-XX	- OM1/OM2/OM3/OS1/OS2	-Y
ADIA	Fiber Count	Fiber Type	Outer Jacket Color
	06 = Six Fibers 12 = Twelve Fibers 18 = Eighteen Fibers 24 = Tewnty Four Fibers 30 = Thirty Fibers 36 = Thirty Six Fibers	OM1 = Multimode 62.5/125 OM2 = Mulltimode 50/125 OM3 = Multimode 50/125 (10G) OM4 = Multimode 50/125 (10G, 40G, 100G) OS1 = Singlemode 9/125, G.652D OS2 = Singlemode 9/125, G.657	K = Black Y = Yellow N = Orange

Example: ADIA-24-OM1-Y, Stands for All Dielectrc Armored Industrial Fiber Optic cable with 24 Multimode 62.5/125 µm fiber, Yellow Outer Jacket

For other colors and hybrid configurations, please contact us at sales@optrax.net