

# SLIMLINE RISER INDOOR/ OUTDOOR PLTC ALUMINUM INTERLOCKING ARMORED HYBRID CABLES

OFFERING THE ROBUST PROTECTION  
YOU EXPECT FROM OCC

These small diameter hybrid cables are thinner, lighter, and more flexible than other hybrid cables. Perfect for remotely powered Passive Optical LAN installations, security cameras, and WIFI access points. The Slimline Hybrid offers the convenience of remote power and the data rates of fiber optics all in one cable that can be installed indoors, outdoors, and in cable trays. Flexible aluminum interlocking armor (ILA) provides additional protection for the cable.

## APPLICATIONS:

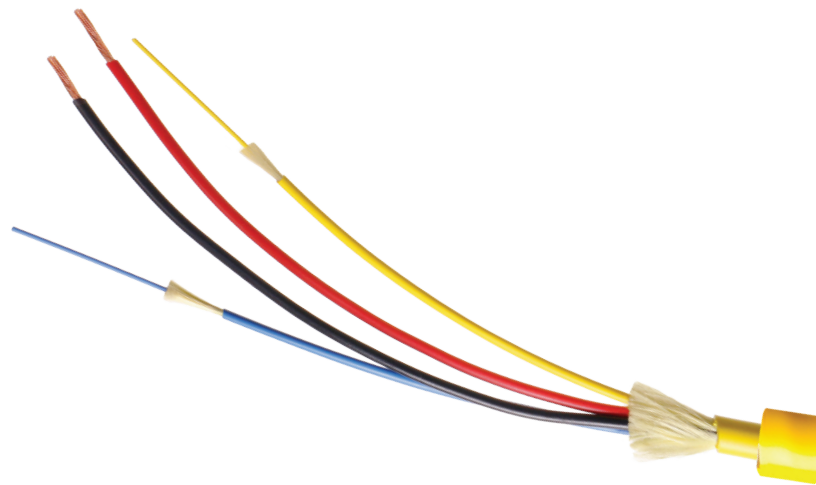
- > Specifically designed for indoor/outdoor installations that utilize a centralized power supply to remote power end devices, thus eliminating the need to provide local AC power to each location.
- > Two copper wires provide power from a centralized power supply to end devices while fiber optic elements provide bi-directional data paths through the cable.
- > Hybrid fiber/copper cables are designed for use in wet locations on Class 3 power-limited circuits and Power Limited Tray Cable (PLTC) circuits as described in Article 725 of the National Electrical Code.
- > Allows remote power over distances greater than the 100m limitation of traditional Power Over Ethernet (PoE).

## CABLE CONSTRUCTION:

- > Includes ripcord for easy outer jacket removal.
- > Cables also include aramid yarn for installation tensile loading.
- > Each cable consists of individual insulated copper conductors and optical fibers located in a radially symmetrical pattern.
- > Sunlight resistant outer jacket.
- > Aluminum interlocking armor (ILA) provides additional cable protection and installation efficiencies where conduits are required. Non-ILA Available.
- > Cables include two copper (red/black) conductors and choice of 1- or 2-fibers.

## FEATURES & BENEFITS:

- > Copper conductors and optical fibers in a single hybrid cable.
- > Riser-rated construction is also PLTC rated, perfect for use in offices and industrial settings.
- > PLTC rating allows cable to be installed in cable trays.
- > 12, 14, 16, 18, 20, or 22 AWG wires available. Class-3 power limited, 300V rated wire insulation.
- > Ultra-Fox™ tight buffered fiber.
- > Cables made with OCC's single-mode or multimode fiber types.
- > Choice of 900µm buffered fibers or 900µm buffered fibers inside 2.0mm sub-units. The sub-units contain aramid yarn for a more robust strain relief when terminating the fiber into a connector and provide added protection in outdoor applications.
- > Indoor/Outdoor Slimline is also available without aluminum interlocking armor (ILA). Non-ILA versions of the cable maintain the Riser and PLTC ratings.



## HYBRID SLIMLINE-RISER (ILA) PHYSICAL PROPERTIES

	WEIGHT KG/KM (LB/1000')	O.D MM (IN)	MIN BEND RADIUS		TENSILE LOAD	
			INSTALLATION CM (IN)	LONGER TERM CM (IN)	INSTALLATION N (LB)	OPERATIONAL N (LB)
2x12 AWG, 900µm	278 (187)	17.1 (0.67)	34.2 (13.5)	25.7 (10.1)	707 (159)	212 (48)
2x14 AWG, 900µm	238 (160)	16.1 (0.63)	32.2 (12.7)	24.2 (9.5)	507 (114)	152 (34)
2x16 AWG, 900µm	203 (136)	15.1 (0.59)	30.2 (11.9)	22.7 (8.9)	355 (80)	107 (24)
2x18 AWG, 900µm	185 (124)	14.6 (0.57)	29.2 (11.5)	21.9 (8.6)	321 (72)	96 (22)
2x20 AWG, 900µm	175 (118)	14.1 (0.56)	28.2 (11.1)	21.2 (8.3)	316 (71)	95 (21)
2x22 AWG, 900µm	162 (109)	13.6 (0.54)	27.2 (10.7)	20.4 (8.0)	316 (71)	95 (21)
2x12 AWG, 2.0mm	283 (190)	17.1 (0.67)	34.2 (13.5)	25.7 (10.1)	715 (161)	215 (48)
2x14 AWG, 2.0mm	243 (163)	16.1 (0.63)	32.2 (12.7)	24.2 (9.5)	514 (116)	154 (35)
2x16 AWG, 2.0mm	216 (145)	15.6 (0.61)	31.2 (12.3)	23.4 (9.2)	363 (82)	109 (24)
2x18 AWG, 2.0mm	197 (132)	15.1 (0.59)	30.2 (11.9)	22.7 (8.9)	329 (74)	99 (22)
2x20 AWG, 2.0mm	194 (130)	15.1 (0.59)	30.2 (11.9)	22.7 (8.9)	324 (73)	97 (22)
2x22 AWG, 2.0mm	182 (123)	14.6 (0.57)	29.2 (11.5)	21.9 (8.6)	324 (73)	97 (22)

## MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Crush Resistance	800 N/cm
Impact Resistance	300 impacts
Meets or exceeds ICEA S-104-696 Standard for Indoor/Outdoor Optical Fiber Cables	
Meets or exceeds ICEA S-120-742 Standard for Hybrid Optical Fiber and Power Cable	
UL-13, UL-444, UL-1666, NEC-725, NEC-800	

## ORDERING INFORMATION

DIGIT NO:	C		O	O		D	P			9		R	I	2
1-2	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Hybrid Powered Fiber Cable with 900µm Buffered Fibers = CA													
	Hybrid Powered Fiber Cable with 2.0mm Sub-Units = CE													
3-5	Component Count = 003 or 004													
6	Jacket Type: Indoor/Outdoor Riser = D													
7	Denotes Slimline Hybrid Powered Fiber Cable = P													
8-9	Component Code (See Table Below)													
10	Ultra-Fox Fiber with 900µm Tight Buffer = 9													
11	Standard Jacket Color: Yellow = Y, Orange = O, Aqua = Q													
12	Rating: Riser = R													
13-14	Aluminum Interlocking Armor with PVC Outer Jacket = I2													

## COMPONENT CODES

- > Digit 8 Denotes the Conductor Size: F = 12 AWG, E = 14 AWG, D = 16 AWG, C = 18 AWG, B = 20 AWG, A = 22 AWG
- > Digit 9 Denotes the Fiber Type, Single-Mode Types: A = SLA (G.657.A1), B = SLB (G.657.A2), C = SLC (G.657.B3), X = SLX (G.652.D); Multimode Types: E = ALE (50µm OM4), S = WLS (62.5µm OM1), T = ALT (50µm OM3)

Indoor/Outdoor Riser Cable with 2x G.657.A1 Single-Mode Fibers in 2.0mm subunits and 2x 16AWG wires with ILA:

**EXAMPLE:** C E O O 4 D P D A 9 Y R I 2

### OCC ROANOKE, VA

Corporate Headquarters and Fiber  
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### OCC DALLAS, TX

Harsh Environment and Specialty  
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### OCC ASHEVILLE, NC

Enterprise Connectivity  
Manufacturing Facility  
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