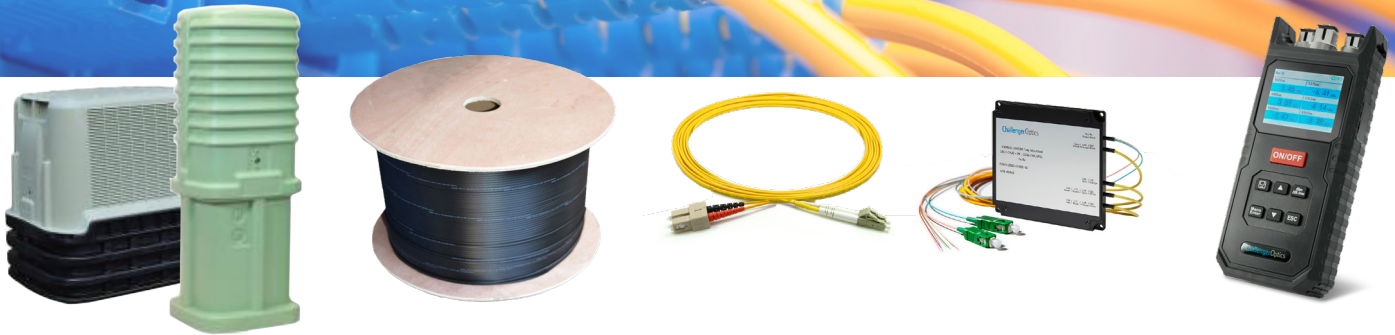
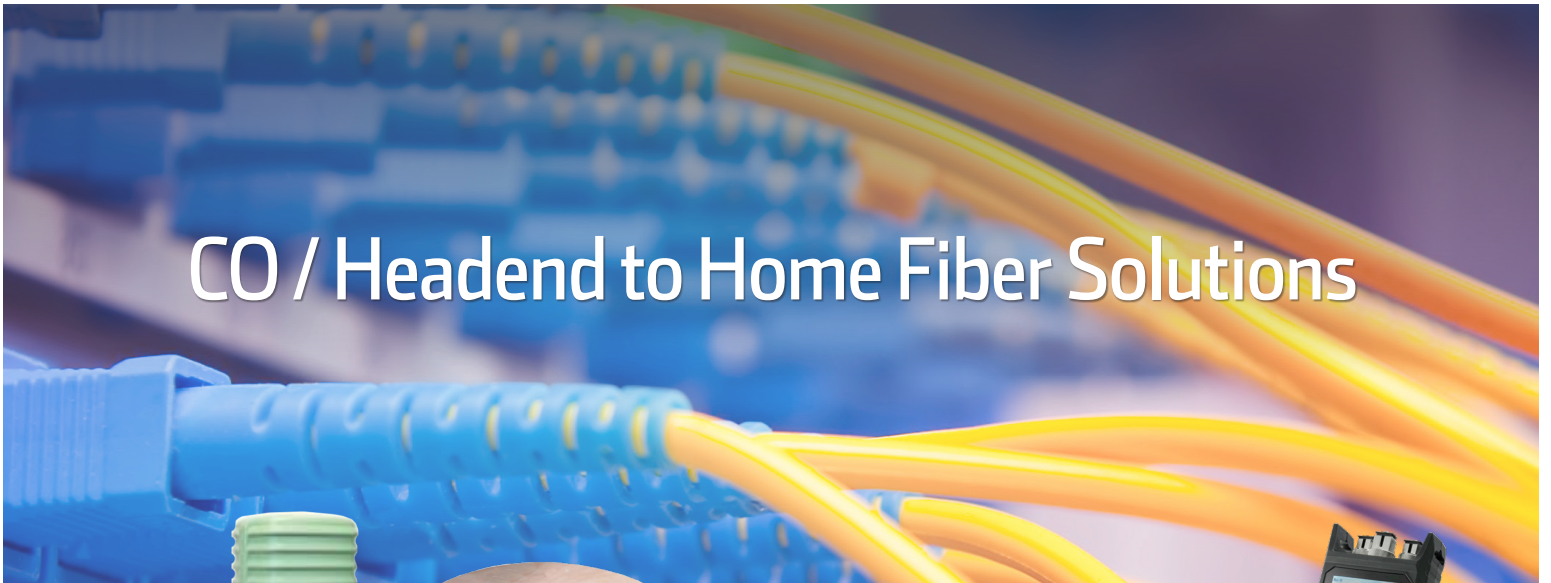


# ChallengerOptics

A ChallengerCableSales company

## CO / Headend to Home Fiber Solutions



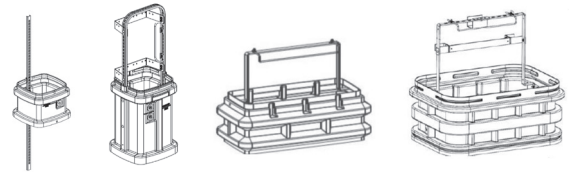
**ChallengerOptics** carries a wide range of Pedestals and Vaults to meet the needs of your FTTH deployment - above grade / underground, round / square, low profile / vertical + bracket options. We also stock a complete line of Fiber Splice Enclosures, from 48 to 576 fiber.



### PEDESTALS

- Vertical pedestals
- Low profile pedestals
- Square and round
- Multiple colors, brackets

### Bracketry Options



### MODULAR VAULTS & HANDHOLES

- Light duty, medium duty, and traffic-rated
- Modular, HDPE, and composite
- Multiple colors and lid options



### SMARTLOC

- Round 10" to 40" Diameter
- Intelligent Monitoring & Wireless Smart Key
- All units are Tier 22
- Light Weight, Easy Transport



### SPLICE ENCLOSURES

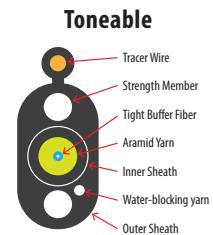
- Butt splice enclosure
- Removable, hinged splice trays
- 6 / 8 tray configuration
- Capable of being mounted in all locations

**ChallengerOptics** carries a complete line of products for your FTTH deployment. Fiber Taps in 2, 4, 6, 8, and 12 port configurations. Plastic and metal NIDs and fiber drop assemblies.



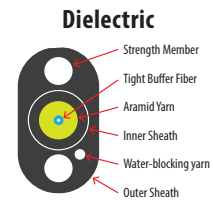
**BULK DROP FIBER**

- 1-24 fiber
- Toneable / Dielectric
- 250um / 900um
- Flat / Round
- 2,000', 5,000', 10,000' reels



**OPTICAL FIBER TAPS**

- 2, 4, 6, 8, and 12 port
- Internal splitter or individual fibers
- Fiber or MPO input
- Toneable or Dielectric cable
- Fiber lengths to 2,000'



**DROP CABLE ASSEMBLIES**

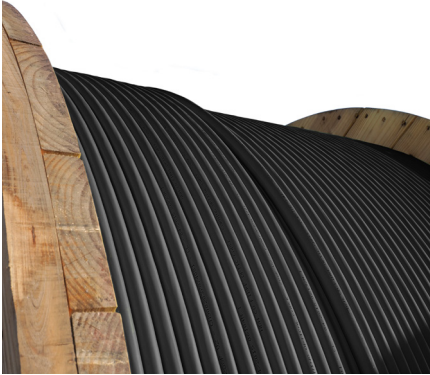
- Toneable or Dielectric
- Fiber lengths to 2,000'
- Stub end or connectorized
- Pulling eye available



**ENCLOSURES / NID**

- Many convenient sizes in thermoplastic alloy and powder coated steel
- Self-latching, dual-compartment in multiple configurations
- Single family, MDU, Enterprise

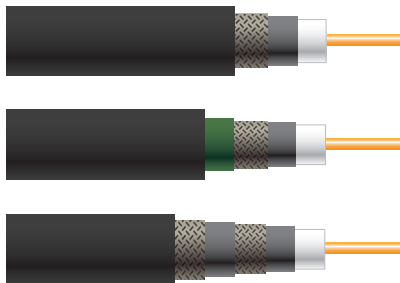
**ChallengerOptics** offers all types of cable: fiber, coax, cat6. Our fiber offering includes cables with up to 864 fibers, in all types of configurations. ChallengerOptics distributes Times Fiber coaxial cable, both hardline and drop. We also carry a complete line of cat6 cable and jumpers.



#### BULK FIBER

---

- Loose tube, ribbon, ADSS
- Armored, Non-Armored
- 48 to 864 count
- 5,000' to 20,000' reels



#### COAX CABLE: HARDLINE AND DROP

---

##### Hardline

- All sizes from .500 to .875
- Aerial and underground
- Speciality cables: Rodent Repellent, Thick Jacket, Messenger

##### Drop

- 60%, 77%, Tri and Quad shield
- Flooded, 77% braid, PE jacket, lifetime
- Messengered

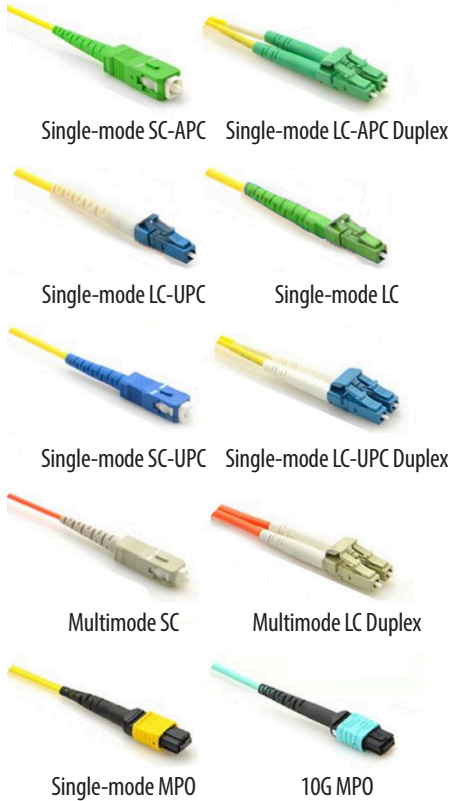


#### CAT6 & CAT6A

---

- High performance Data Cable
- Suitable for 10Gb High-Speed applications
- Available in CMR, CMX Plenum – Indoor / Outdoor / Burial
- 23AWG, Solid Bare Cooper
- Exceeds ANSI EIA/TIA 568-C.2
- 1000ft

**ChallengerOptics** offers a complete line of fiber optic jumpers in single mode and multimode configurations. All jumpers are manufactured to meet or exceed Telecordia GR-326-Core Issue 4 specifications, using G.657. A1 fiber. We test 100% of our jumpers for proper end-face clarity, insertion loss, and return loss to provide superior optical performance. Our fiber optic assemblies are available in a wide variety of fiber types, jacket diameters, connector types, flame rating, and custom colors.



CABLE COLOR	OS1/OS2 Single Mode	OM1 62.5/125 μm Multimode	OM2 50/125 μm Multimode	OM3 50/125 μm (850 Laser-Optimized) Multimode	OM4 50/125 μm (850 Laser-Optimized) Multimode
	Yellow	Orange	Orange	Aqua	Aqua/Violet

CONNECTOR COLOR	Single Mode	Single Mode	OM1 62.5/125	OM2 50/125	OM3/OM4 50/125	POLISH	BODY	STRAIN RELIEF
	UPC	APC	UPC	UPC	UPC	Blue	Blue	Blue
	Green	Green	Beige/Gray	Black	Aqua	Green	Green	Green
	Beige/Gray	Beige/Gray	Beige/Gray	Black	Aqua	Beige/Gray	Beige/Gray	Beige/Gray
	Black	Black	Black	Black	Aqua	Black	Black	Black
	Aqua	Aqua	Aqua	Aqua	Aqua	Aqua	Aqua	Aqua

**CABLE SIZES & TYPES**

- 0.9 mm, 1.2 mm, 1.6 mm, 1.8 mm, 2.0 mm, 3.0 mm Armored, and 4.8 mm Armored
- Riser (OFNR), plenum (OFNP), low smoke zero Halogen (LSZH), all RoHS compliant.
- Custom colors available (special order)

**ORDERING INFO** **C0 - JL1L1 - S009RS - 002M**

CONNECTORS	FIBER TYPE	CABLE DIAMETER	FIRE RATING	FIBER COUNT	LENGTH & UNIT
<b>L1</b> LC/APC	<b>S0</b> Single Mode OS1 8.3/125μm	<b>09</b> 0.9 mm	<b>R</b> OFNR Rised	<b>S</b> Simplex	<b>XXXM</b> Meter
<b>S1</b> SC/APC	<b>S1</b> Single Mode OS1 9.0/125μm	<b>12</b> 1.2 mm	<b>P</b> OFNP Plenum	<b>D</b> Duplex	<b>XXXF</b> Foot
<b>D1</b> MDC/APC	<b>S2</b> Single Mode OS2 9.5/125μm	<b>16</b> 1.6 mm	<b>L</b> LSZH	<b>2</b> 2 Fiber Round	
<b>L2</b> LC/UPC	<b>M1</b> Multimode OM1 62.5/125μm	<b>18</b> 1.8 mm	(low smoke	<b>4</b> 4 Fiber Round	
<b>S2</b> SC/UPC	<b>M2</b> Multimode OM2 50.0/125μm	<b>20</b> 2.0 mm	zero halogen)	<b>6</b> 6 Fiber Round	
<b>D2</b> MDC/UPC	<b>M3</b> Multimode OM3 50/125μm	<b>30</b> 3.0 mm		<b>8</b> 8 Fiber Round	
<b>L3</b> LC/APC Uniboot	<b>M4</b> Multimode OM4 50/125μm	<b>3A</b> 3.0 mm Armored		<b>A</b> 12 Fiber Round	
<b>S3</b> SC/APC Uniboot	<b>M5</b> Multimode OM5 50/125μm	<b>4A</b> 4.8 mm Armored		<b>B</b> 24 Fiber Round	
<b>L4</b> LC/UPC Uniboot					
<b>S4</b> SC/UPC Uniboot					
<b>M1</b> MPO/APC					
<b>M2</b> MPO/UPC					

**ChallengerOptics** stocks a large supply of DWDM Muxes and Optical Splitters. Tray Mount or LGX module, 900um / connectorized, or 250 um / bare.



Tray Mount



LGX



Splitters

**MUX / DEMUX**

- Tray mount or LGX
- Dual test, upgrade, and express ports
- 250um bare
- 900um connectorized
- Connectors available: LC, SC, APC, UPC
- Inside plant / Outside plant
- Custom configurations and channel plans

**DWDM** 2, 4, 8, 10, 16, 20, 40 channel

**CWDM** 2, 4, 8, 16 channel



**SPLITTERS**

- 1x2 to 1x64 way
- Connectorized or bare fiber
- Tray mount
- LGX

**ChallengerOptics** carries a wide selection of WDM and specialty fiber optic test and measurement equipment. DWDM, CWDM, MPO, PON test accessories and cleaning items.



**OPTICAL POWER METERS**

*Cost-effective measurement; handheld*

*APPLICATIONS - Remote-Phy, Metro-E, Core Networks, 5G Fronthaul / Backhaul*

PON	XGS, GPON, RFoG in 1 unit	CO-OPM-PONX
DWDM	49 channel, C-Band, Total Power	CO-OPM-C
CWDM	18 channel	CO-OPM-18
1310 / 1550	Standard Power Meter, Tone Detection	CO-OP



**OTDRs**

*WDM and standard models: Inspection Scope, VFL, and Power Meter available.*

*APPLICATIONS - WDM Network Certification – loss budget, Mux configuration.*

*PON, RFoG and 5G Backhaul networks*

DWDM	50/100 Ghz, 35dB, touchscreen	CO-OTDR-DWDM
CWDM	10 channel touchscreen	CO-OTDR-CWDM
PON	1310 / 1550 / 1610, Hi-Power	CO-OTDR-PON
1310 / 1550	Single, Dual, or Tri-channel	CO-OTDR-1315



**TUNABLE LASER SOURCES**

*Highly Accurate, Tunable, Variable Power, Modulated Output*

*APPLICATIONS - DWDM Network Verification – Core Networks, R-Phy, 5G backhaul*

DWDM	50/100 Ghz, Variable Power, VFL	CO-OLS-6100
CWDM	8 channel, -3 dBm	CO-OLS-4761
PON	Multiple PON Wavelengths	CO-OLS-PON
1310 / 1550	Basic Laser Source, Tone Modulation	CO-OLS-1315



**OTHER OPTICAL EQUIPMENT**

Fusion Splicer	Active core alignment, Ribbon, cost effective
MPO Test	Power Meter & Light Source, 12 & 24 Fiber
Inspection	Probes for Fiber Inspection

**ChallengerOptics** can design and supply the cabinets for your fiber deployment. From a single, passive fiber splitter hub to a large, multi-module, environmentally-controlled equipment cabinet, ChallengerOptics can provide a complete solution. Our full line of optical SFPs can meet the demands of your network design.



#### MODULAR AND FIBER DISTRIBUTION CABINETS

---

- 144 to 864 fiber
- Multibay configurations
- Passive and active cabinets
- 5 to 39 RU
- Multiple power and environmental options

#### OPTICAL TRANSCEIVERS

---

- All configurations: SFP, SFP+, XFP, GBIC, QSFP
- All power levels available
- DWDM and CWDM
- OEM compatible
- TAA compliant



*Send inquiries to:*

**Robert Ortiz** / Vice President Sales  
robertortiz@challengercable.com  
c: 310-702-7461 o: 410-536-7146

## ChallengerOptics

A ChallengerCableSales company