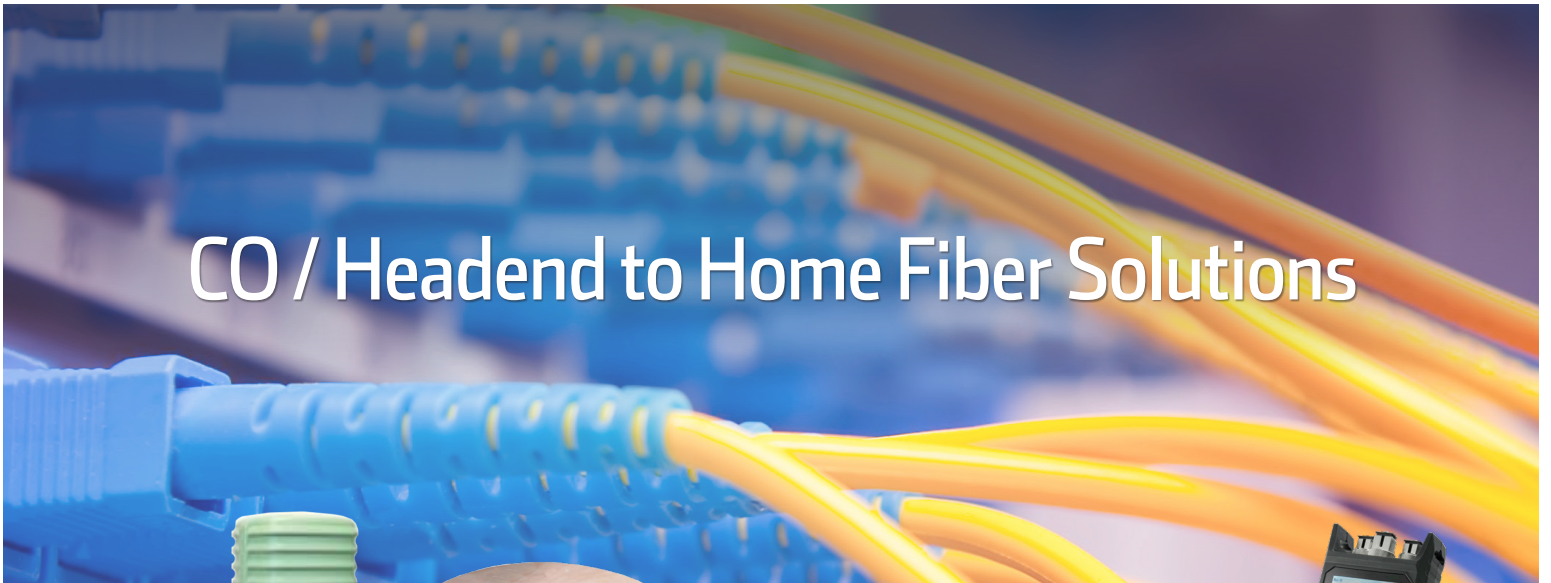


ChallengerOptics

A ChallengerCableSales company

CO / Headend to Home Fiber Solutions



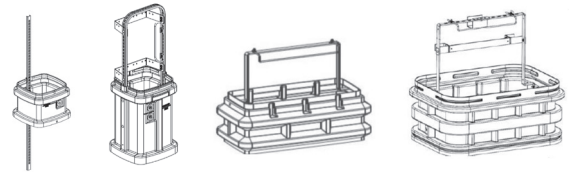
ChallengerOptics carries a wide range of Pedestals and Vaults to meet the needs of your FTTH deployment - above grade / underground, round / square, low profile / vertical + bracket options. We also stock a complete line of Fiber Splice Enclosures, from 48 to 576 fiber.



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

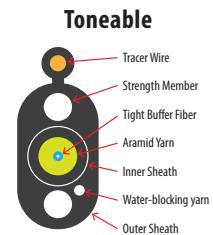
- Butt splice enclosure
- Removable, hinged splice trays
- 6 / 8 tray configuration
- Capable of being mounted in all locations

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.



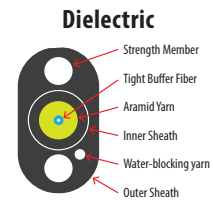
BULK DROP FIBER

- 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

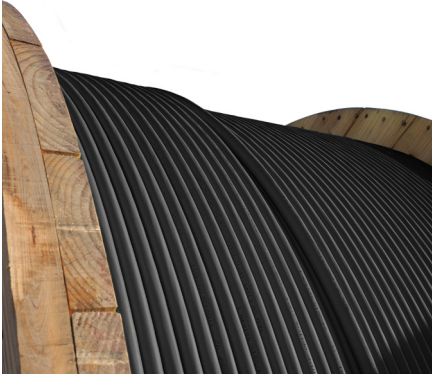
- Toneable or Dielectric
- Fiber lengths to 2,000'
- Stub end or connectorized
- Pulling eye available



ENCLOSURES / NID

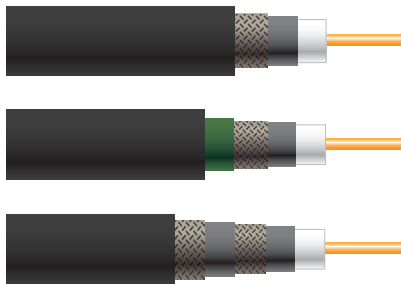
- Many convenient sizes in thermoplastic alloy and powder coated steel
- Self-latching, dual-compartment in multiple configurations
- Single family, MDU, Enterprise

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

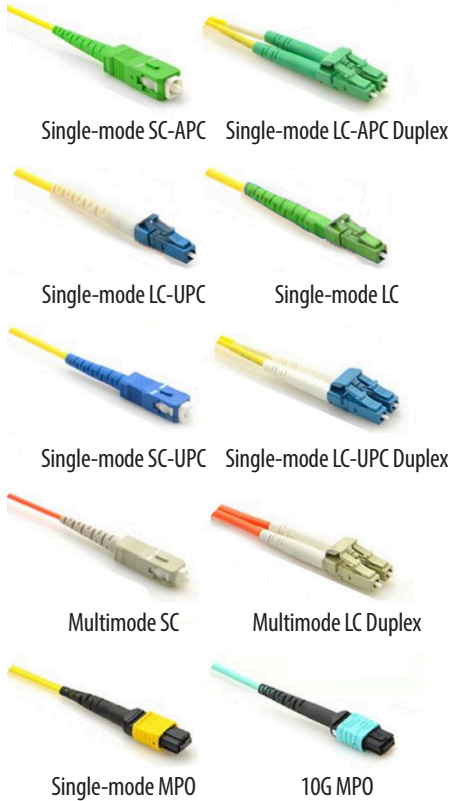
- 60%, 77%, Tri and Quad shield
- Flooded, 77% braid, PE jacket, lifetime
- Messengered



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	Black	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 **CO - JL1L1 - S009RS - 002M**

CONNECTORS	FIBER TYPE	CABLE DIAMETER	FIRE RATING	FIBER COUNT	LENGTH & UNIT
L1 LC/APC	S0 Single Mode OS1 8.3/125μm	09 0.9 mm	R OFNR Rised	S Simplex	XXXM Meter
S1 SC/APC	S1 Single Mode OS1 9.0/125μm	12 1.2 mm	P OFNP Plenum	D Duplex	XXXF Foot
D1 MDC/APC	S2 Single Mode OS2 9.5/125μm	16 1.6 mm	L LSZH	2 2 Fiber Round	
L2 LC/UPC	M1 Multimode OM1 62.5/125μm	18 1.8 mm	(low smoke	4 4 Fiber Round	
S2 SC/UPC	M2 Multimode OM2 50.0/125μm	20 2.0 mm	zero halogen)	6 6 Fiber Round	
D2 MDC/UPC	M3 Multimode OM3 50/125μm	30 3.0 mm		8 8 Fiber Round	
L3 LC/APC Uniboot	M4 Multimode OM4 50/125μm	3A 3.0 mm Armored		A 12 Fiber Round	
S3 SC/APC Uniboot	M5 Multimode OM5 50/125μm	4A 4.8 mm Armored		B 24 Fiber Round	
L4 LC/UPC Uniboot					
S4 SC/UPC Uniboot					
M1 MPO/APC					
M2 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:
sales@ChallengerOptics.com
or call us: 310.338.9971

ChallengerOptics

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