

FTTX



A Furukawa Company

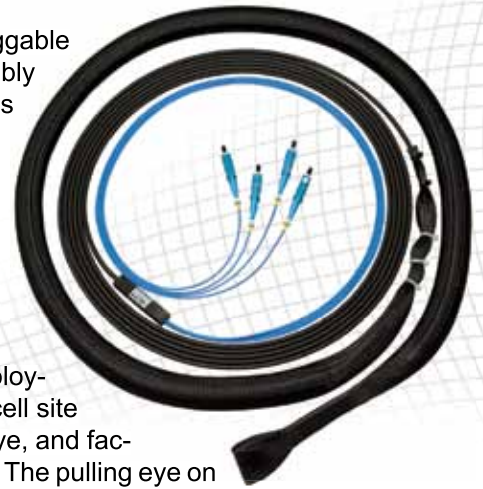
FOX Solution™ CS Pluggable Drop Cable for Cell Sites

Product Description

The FOX Solution™ for Cell Sites (CS) pluggable drop cable is a factory connectorized assembly featuring AccuDRY® Indoor/Outdoor Cables with SC or LC connectors mounted on one or both ends. Available with 4, 6, 8 and 12 fibers, these assemblies are factory terminated to help ensure high quality and reliability with low insertion loss, while providing easy field termination that can speed up deployment and lower installation costs.

The assemblies are designed for quick deployment in conduits, and plug and play into the cell site equipment. They are shipped with a pulling eye, and factory-mounted and tested low-loss connectors. The pulling eye on the outside end provides a means of rapidly installing the cable while protecting the connectors and enabling a pulling force of up to 100 lbs.

The FOX Solution CS pluggable drop cable features bend-optimized AllWave® FLEX ZWP Fiber in the AccuDRY Cables. AllWave FLEX ZWP Fiber provides improved performance in tight installations and low installed loss over the full range of wavelengths. The AccuDRY Indoor/Outdoor Cable can transition from outdoors into hubs, cabinets and pedestal applications, and is riser-rated to be run through buildings if necessary.



The FOX Solution for Cell Sites (CS) is a passive, end-to-end FTTX solution optimized to bring fiber to cell sites faster and more efficiently than conventional offerings. FOX Solution CS includes innovative, state-of-the-art components that can provide fast and easy installation while delivering outstanding optical performance and reliability. All elements are bend-optimized, compact and robustly designed to help reduce bending losses and space requirements, and can be configured flexibly to address the different needs and conditions of cell sites.

KEY COMPONENT OF



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Benefits

Enabling Features

FAST and EASY INSTALLATION

- About 1 hour time savings for plug and play vs. fusion splicing (4 connections)
- Even more savings if fusion truck roll avoided
- Faster, easier, reliable cable pull
- The assembly can eliminate or reduce field splicing using factory mounted high performance connectors
- Standard single fiber connectors plug in to standard SC or LC ports
- Faster, easier, reliable cable pull
- Flexible lightweight cable
- Pulling sock removable in less than 1 minute
- No fusion equipment or power needed

RELIABLE INSTALLATION

- AccuDRY Indoor/Outdoor Riser Rated Cable provides dependable, fast installation
- Protective pulling sock rated at 100 lbs max tension
- Bulk cable tension max 300 lbs

RELIABLE SERVICE

- Superior optical performance and service reliability even with difficult-to-avoid bending and termination
- Features bend-optimized AllWave *FLEX* Fiber and factory installed connectors
- Compliant with relevant Telcordia, ICEA, IEEE 802(s), TIA, and IEC standards
- If field splicing is preferred, FITEL® Fusion Splice on Connectors (SOC) avoid risks of mechanical splice on connectors

SECURE DEPLOYMENT

- Secure connection inside sealed enclosure
- Standard connectors fit in box; no exposed OSP connectors

COMPACT PACKAGING

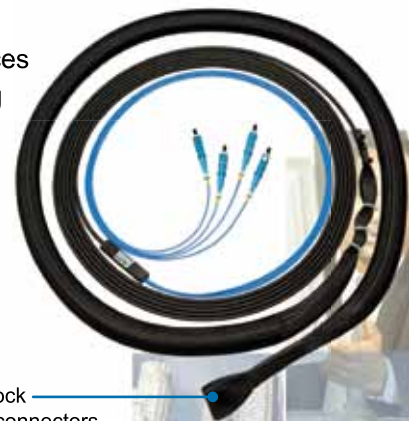
- Less space and hardware
- 75% smaller slack storage vs. most conventional OSP drop cable
- Splice storage eliminated with FITEL fusion splice on connectors

More Benefits, Less Resources

- About 1 hour savings through plug and play by eliminating 4 fusion splices
- Faster, more reliable pull through longer conduit using innovative pulling sock
- Standard connectors protected and pluggable in standard Ethernet equipment
- Smaller storage/lower loss due to AllWave *FLEX* Fiber inside flexible cable

Connector Performance:

Property	SC Connector	LC Connector
Insertion Loss	<0.35 dB	<0.25 dB
Return Loss	>55 dB	>55 dB
Insertion Loss Stability	< 0.3 dB	< 0.3 dB
Temperature Range	-40° C to 75° C	-40° C to 75° C



Pulling sock protects connectors

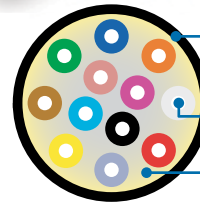
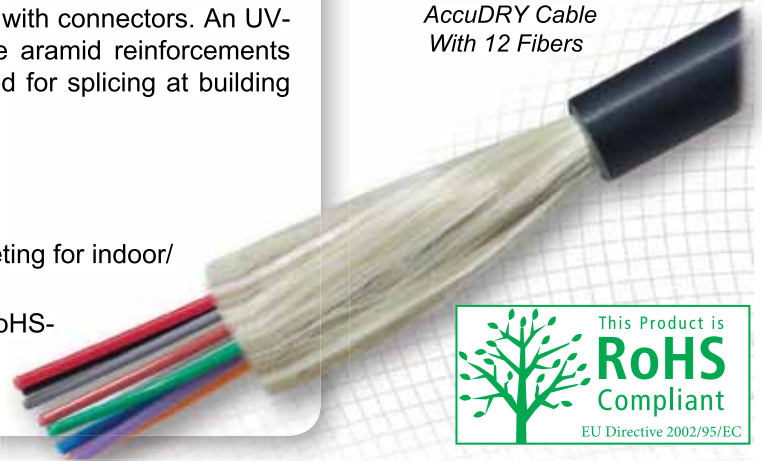


The AccuDRY cable is a lightweight, compact indoor/outdoor cable that uses 900µm tight buffered fiber for robust, direct termination with connectors. An UV-resistant flame-retardant jacketing and water-swellable aramid reinforcements allow its use in outdoor environment, avoiding the need for splicing at building entrances.

FEATURES:

- Compliant with Telcordia GR-409 standard
- UV-resistant, flame retardant non-halogen black jacketing for indoor/outdoor applications.
- Environmentally friendly: Free of heavy metals and RoHS-compliant
- Compliant with UL 1666 Riser Flame Test

AccuDRY Cable
With 12 Fibers



0.86 +/- 0.13mm Thick Non-Halogen Riser-Rated Outer Jacket

Water-Swellable Aramid Yarn

900 µm Buffered Fiber

12 Fiber
Cross-Section

AccuDRY Riser-Rated Cable with AllWave FLEX SM Fiber

Part Number	Fiber Count	Maximum Tensile Rating	Nominal Diameter	Nominal Weight	Maximum Attenuation, 1310 nm	Maximum Attenuation, 1550 nm
LGIO-004C-WRK	4	300 lb (1330 N)	4.65 +/- 0.2 mm	17.2 kg/km	0.4 dB/km	0.3 dB/km
LGIO-006C-WRK	6	300 lb (1330 N)	5.0 +/- 0.2 mm	22.5 kg/km	0.4 dB/km	0.3 dB/km
LGIO-008C-WRK	8	300 lb (1330 N)	6.0 +/- 0.2 mm	27.3 kg/km	0.4 dB/km	0.3 dB/km
LGIO-012C-WRK	12	300 lb (1330 N)	6.7 +/- 0.2 mm	38.9 kg/km	0.4 dB/km	0.3 dB/km

Pluggable Drop Cable Ordering Scheme

Example: **LPC2-W-LCUSCU-IO9R-008-300F-CELLv1**

Part Number: **LPC2-W-XXXXYY-IO9R-ZZZ-NNNF-CELLv1**

- LPC2** = Special designed cable
- W** = AllWave FLEX Fiber
- XXXXYY** = Inside end/outside end connectors available in LCU, SCU, LCA and SCA
- IO9R** = AccuDry Indoor/Outdoor Cable 900 µm tight buffered fiber which is up-jacketed to 2.0 mm cordage
- ZZZ** = Fiber Count: 004, 006, 008, 012
- NNN** = Length: Available in a wide range of lengths measured butt to butt in feet
- F** = Length unit designator (Feet)
- Cellv1** = defines the specifics of the LPC2 with breakout lengths of 36 inches staggered connectors in groups of 2 fibers with a pulling eye on the outside end and a protective cover on the inside end



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For additional information please contact your sales representative. You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) from inside the USA or 1-770-798-5555 from outside the USA.

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