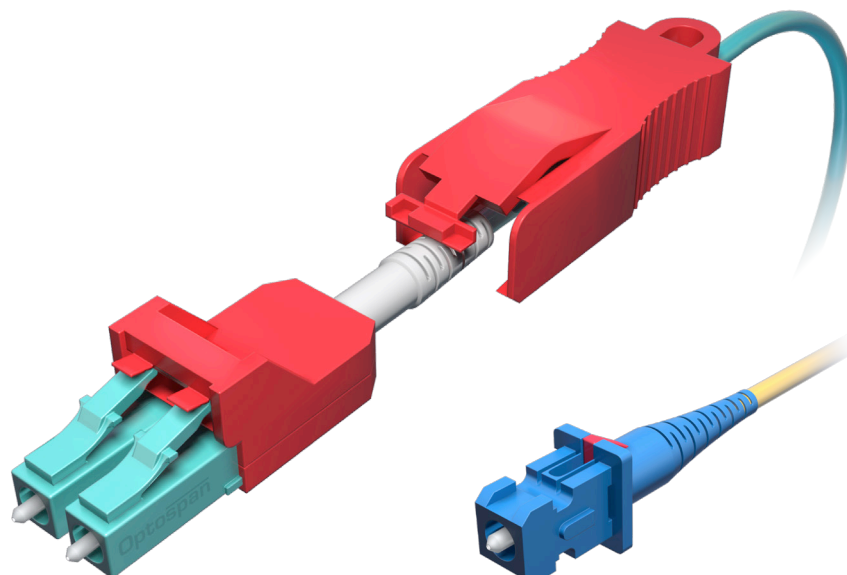# Optospan

SECUREFLEX
LOCKING FIBER CABLES

A UNIQUE TAMPER PROOF SOLUTION

PLUG INTO ANY CONVENTIONAL WALL JACK, PANEL OR TRANSCEIVER

OptoSpan's SecureFlex™ Locking Fiber Cables are designed to prevent unauthorized and/or inadvertent changes in highly sensitive applications such as Datacenters and Secure IT networks. These locking cables plug into any conventional adapters or panels, but can only be disconnected using a matching colored coded key.

The SecureFlex Locking cables also feature a higher performance Ultra Low-loss LC ferrule which reduces the insertion loss (IL) to less than .09dB (ordinary IL is .30dB) and the new 360° flex angle boots which solve the congestion problems that naturally occur when hundreds of fibers terminate at one small patch panel.
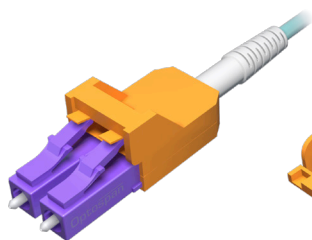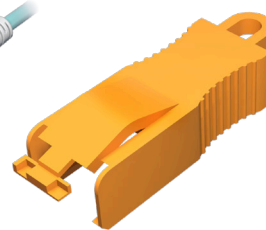
SecureFlex-LC
Locking Connector

SecureFlex-SC
Locking Connector

Ultra Low Loss
<.09dB – Outstanding Network Performance

360° Flex-Angle boots
Prevents fiber congestion

SECUREFLEX-LC LOCKING CABLE WITH KEY

Locking LC Cable

Color Coded Key

Extraction Tool

TECHNICAL SPECIFICATIONS

SECUREFLEX-LC CONNECTOR

	IL AGAINST MASTER (DB)		IL RANDOM MATING (DB)	
	Average IL	Maximum IL	Average IL	Maximum IL
Solid Body Low Loss SM	0.05	0.15	0.07	0.15
Solid Body Low Loss APC SM	0.07	0.15	0.09	0.20
Solid Body Low Loss MM	0.05	0.15	0.07	0.15
Operating Temperature	-40ºC to +75ºC			
Durability	<0.2dB typical change, 500 matings			

CLEARCURVE® OM4 FIBER

Attenuation		Macrobend Loss			
Wavelength (nm)	Maximum Value (dB/km)	Mandrel Radius (nm)	Number of turns	Induced Attenuation (db) 850 nm	1300 nm
850	≤ 2.3	37.5	100	≤ 0.05	≤ 0.15
1300	≤ 0.6	15	2	≤ 0.1	≤ 0.3

Note: Exceeds Verizon FOC TPR 9409 and IEC61300-3-34 Grade A random mating requirements.
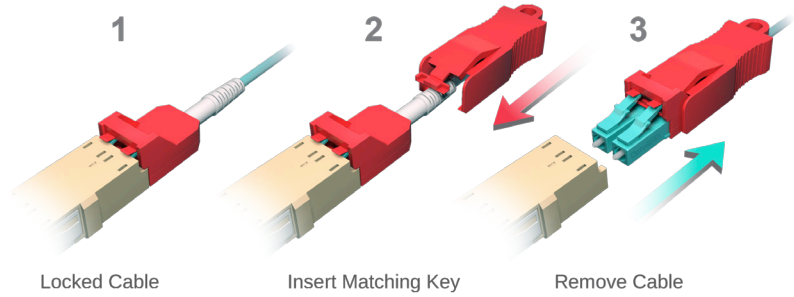
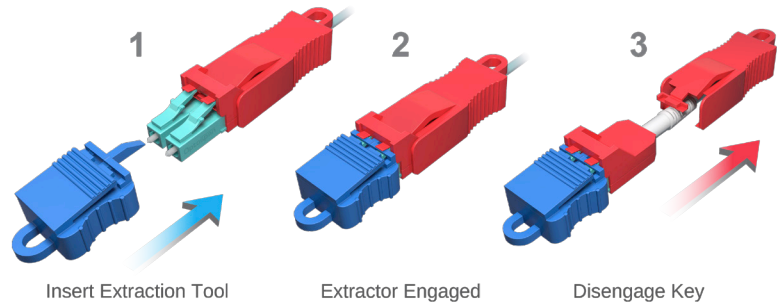## TECHNICAL SPECIFICATIONS

CORNING SMF-28E+ OS2 FIBER

Maximum Attenuation		Macrobend Loss			
Wavelength (nm)	Maximum Value* (dB/km)	Mandrel Diameter (mm)	Number of Turns	Wavelength (nm)	Induced Attenuation * (dB)
1310	0.33-0.35	50	100	1310	<= 0.05
1550	0.19-0.20	50	100	1550	<= 0.05
Outer Diameter	3.0mm ±0.2mm				

SECUREFLEX CABLES SIMPLE LOCKING AND UNLOCKING PROCESS

STEP 1.

REMOVE CABLE USING A MATCHING KEY

1	2	3
Locked Cable	Insert Matching Key	Remove Cable

STEP 2.

DISENGAGE KEY FROM CABLE

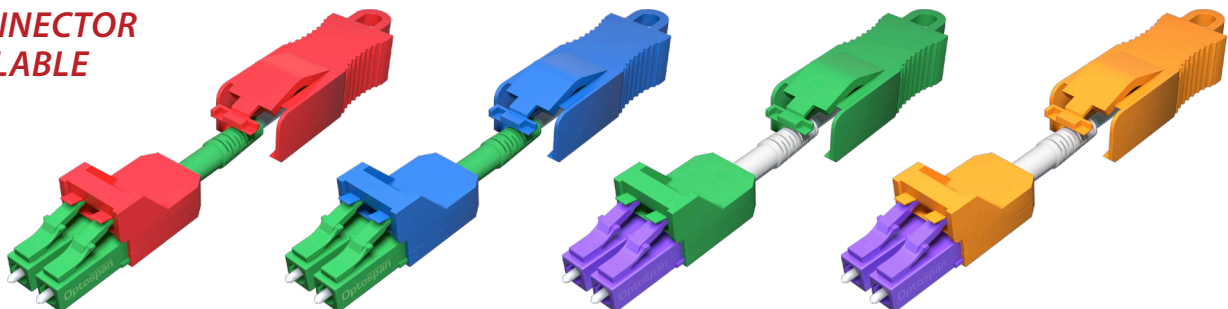| 1	2	3
Insert Extraction Tool	Extractor Engaged	Disengage Key

FEATURES

- Once connected, cables can only be removed by using the keyed tool
- 4 key combinations with separate colors
- Plugs into standard LC adapters & transceivers
- Compact Uni-body Duplex format

APPLICATIONS

- Military and Federal networking
- High Density Patching Applications
- Highly Sensitive Data Centers
- Tamper Proof Networks

4 KEYS/CONNECTOR PAIRS AVAILABLE

Note: The SECUREFLEX cables exceeds Verizon FOC TPR 9409 and IEC61300-3-34 Grade A random mating requirements.

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