Fiber Preparation Tools • Fiber Connector Crimp Tool • Fiber Jumper Assemblies • Fiber Pigtail Assemblies







Fiber Connector Crimp Tool F4



Fiber Jumper Assemblies F6



Fiber Pigtail Assemblies F7



Breakout Receiver Service Pigtail Cable F8



Preterminated Indoor Cable Jumper Assemblies F9



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Breakout Receiver Service Pigtail Cable • Preterminated Indoor Cable Assemblies • Connectors • Terminators







Connectors F11



Adapters F12



Terminators F13



Attenuators



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Fiber Preparation Tools

[1] 514-010 Precision Fiber Optic Cable Stripper Suitable for 0.010" (250µm) Fiber Adjustable for Precise Removal of Outer Jacket and Fiber Buffer Precision Ground Steel Blades Easy-Grip Plastic Coated Handles

[2] 514-013 Fiber Optic Cable Cutter
Wedge-Shaped Diamond Tip for
Precise Scribing and Snapping of Fiber
Steel Chromate Pen with Pocket Clip
3/6"(Dia.) x 53/16"(H)

[3] **514-050** Fiber scissors effortlessly cuts Aramid strength fibers and Kevlar in fiber optic cable Precision ground grooved cutting edges prevent slippage Large Ergonomic Plastic Handles 31/8"(W) x 57/8"(H) x 1/16"(D)

[4] 514-207 Fiber Optic Stripper-Cutter Precisely cuts and strips all 0.010" (250μm) and 0.0125" (315μm) glass fiber buffer Easily strips 2.8mm, 5.0mm and 8.0mm outer diameter jacket Pre-Set Opposing-Blade for Clean Operation Without Adjustment Non-slip ridged handle facilitates precise operation 13/κ"(W) x 35/κ"(H) x 3/4"(D)









Fiber Connector Crimp Tool



[5] 514-055 Fiber Optic Ratchet Crimper for Fiber Optic Connectors Full Cycle Ratchet Mechanism Ensures a solid repeatable crimp Precision Machined Hex Die 0.042" (1.07mm), 0.068" (1.72mm), 0.078" (1.98mm), 0.128" (3.25mm), 0.151" (3.84mm), 0.178" (4.52mm) Adjustable Return Spring Tension 25/8"(W) x 81/2"(H) x 7/8"(D)





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Quality connections are critical in the fiber optic network. Connectors, adapters, splitters and other devices are among the lowest-cost items in the network, but they play an indispensable role in maintaining optimal performance and helping carry light signals farther. Fiber optic voice, video and data networks require properly assembled and accurately tested connections.

But depending on the vendor, connectivity quality can range from exceptional to inferior...and thus affect the reliability and performance of your network. Some manufacturers comply with only the minimal standards and specifications and rely on less than strictly controlled processes in production. On the other hand, our fiber optic products reach much higher standards.

Our solutions serve broadband cable and satellite TV operators, cabling and telephony systems contractors, and many other markets. In fact, we offer one of the largest product portfolios in the electronics world. We possess a complete design, engineering, production, quality assurance and technical support organization unrivaled by any competing company.

This section of the Steren catalog is your official guide to our fiber optic products.

As demonstrated by our variety of equipment categories, we can fulfill nearly all applications and network requirements. We provide a full line of assemblies and other products suited to your needs. Inside this catalog you'll find descriptions, specifications and ordering information.

In addition to assemblies, we provide a wide variety of connectors, adapters, attenuators, terminators, wavelength division multiplexers and splitters. We also offer fiber preparation tools for a quality connection. It's a complete package for all your fiber connectivity needs.



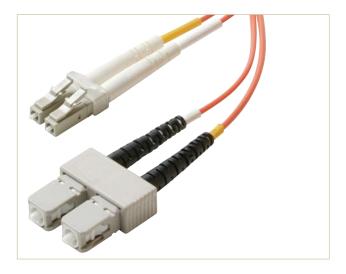
Fiber Jumper Assemblies

Ordering Instruc-

Complete the form by filling in each block with the appropriate bold letter or number that corresponds to the choice in each menu item. The product must have a combination of 15 letters/numbers.

Example: FJ5S1A1A30001MY

Fill out remain	ning spaces										
Fiber	Туре	Singlemode Multimode	Simplex Duplex	Connector 1	Polish 1	Connector 2	Polish 2	Cable Diameter	Cable Length	Meters, Feet or Inches	Jacket Color
F Fiber	J Jumper	 5 Singlemode 9/125 125µm 6 Singlemode 9/125 126µm 7 Multimode 50/125 127µm 8 Multimode 62.5/125 	S Simplex D Duplex	1 ST 2 SC 3 FC 4 MTRJ 5 LC 6 MU 7 E2000	A APC (Angle) P PC U UPC (Ultra) M Male (MT), for MTRJ connector only	 ST SC FC MTRJ LC MU E2000 	A APC (Angle) P PC U UPC (Ultra) M Male (MT), for MTRJ connector only	30 3.0mm 31 3.0 (652C) 20 2.0mm 18 1.8mm 16 1.6mm 09 0.9mm	001 1 002 2 003 3 through 999 999	M Meters F Feet I Inches	Y Yellow R Red G Green B Blue O Orange W White
		127μm		8 DIN9 MPO0 D4	F Female (MT), for MTRJ connector only	8 DIN9 MPO0 D4	F Female (MT), for MTRJ connector only	10 0.9mm/HT 06 0.6mm			



Specifications

- High-Performance Fiber Cable for Use in Data Networks, Optical Patch Panels, and Digital Video and Audio Applications
- Customized by Fiber Mode, Simplex or Duplex Construction, Connector Type, Connector Polish, Cable Diameter, Cable Length and Jacket Color
- Precision Manufactured FDDI and OFNR Riser Rated
- Flame Retardant PVC Jacket
- 100% Factory Tested and Certified
- Excellent Insertion and Return Loss Characteristics
- Compliant with TIA/EIA-568B.3 and Telcordia Standards



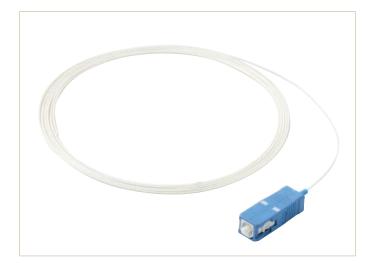
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Fiber Pigtail Assemblies

Ordering Instructions: Complete the form by filling in each block with the appropriate bold letter or number that corresponds to the choice in each menu item. The product must have a combination of 13 letters/numbers.

Example: FP5S1A30002MY

Fill out rema	P nining spaces								
Fiber	Туре	Singlemode Multimode	Simplex Duplex	Connector	Polish	Cable Diameter	Cable Length	Meters, Feet or Inches	Jacket Color
F Fiber	P Pigtail	 5 Singlemode 9/125 125μm 6 Singlemode 9/125 126μm 7 Multimode 50/125 127μm 8 Multimode 62.5/125 127μm 	S SimplexD Duplex	 ST SC FC MTRJ LC MU E2000 DIN MPO D4 	 A APC (Angle) P PC U UPC (Ultra) M Male (MT), for MTRJ connector only F Female (MT), for MTRJ connector only 	30 3.0mm 31 3.0 (652C) 20 2.0mm 18 1.8mm 16 1.6mm 09 0.9mm 10 0.9mm/HT 06 0.6mm	001 1002 2003 3<i>through</i>999 999	M MetersF FeetI Inches	Y YellowR RedG GreenB BlueO OrangeW White



Specifications

- High-Performance Fiber Cable for Use in Data Networks, Optical Patch Panels, and Digital Video and Audio Applications
- Customized by Fiber Mode, Simplex or Duplex Construction, Connector Type, Connector Polish, Cable Diameter, Cable Length and Jacket Color
- Precision Manufactured
- FDDI and OFNR Riser Rated
- Flame Retardant PVC Jacket
- 100% Factory Tested and Certified
- Excellent Insertion and Return Loss Characteristics
- Compliant with TIA/EIA-568B.3 and Telcordia Standards



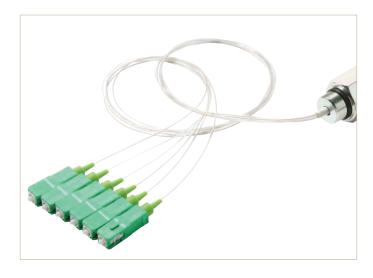
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Breakout Receiver Service Pigtail Cable

Ordering Instructions: Complete the form by filling in each block with the appropriate bold letter or number that corresponds to the choice in each menu item. The product must have a combination of 15 letters/numbers.

Example: FR2CA52A0040209

Fill out rema	R aining spaces			5					
Fiber	Туре	Fiber Count	Cable Type	Singlemode Multimode	Connector	Polish	Cable (Total Length in Feet ONLY)	Cable Furcation (Breakout)(Length in Inches ONLY)	Furcation Diameter
F Fiber	R Breakout Receiver Service Pigtail Cable	2C 2-Ct OSP Cable 4C 4-Ct OSP Cable 6C 6-Ct OSP Cable 8C 8-Ct OSP Cable	A Armored D Dielectric	5 Singlemode	2 SC 3 FC	A APC (Angle) P PC U UPC (Ultra)	 001 1 Foot 002 2 Feet 003 3 Feet through 999 999 Feet 	 01 1 Inch 02 2 Inches 03 3 Inches through 99 99 Inches 	30 3.0mm20 2.0mm09 900um



Specifications

- High-Performance Fiber Cable for Use in situations where pre-connectorized inside or outside plant cables are desired for installation in 5/8x24 housing ports in Fiber Optic Nodes
- Customized by Fiber Count, Cable Type, Fiber Mode, Connector Type, Connector Polish, Cable Length, and Cable Furcation Length and Diameter
- Precision Manufactured
- Flame Retardant PVC Jacket
- 100% Factory Tested and Certified
- Excellent Insertion and Return Loss Characteristics
- Compliant with TIA/EIA-568B.3 and Telcordia Standards



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Breakout Cable

Breakout Cable

Breakout Cable

U 6-Ct Tight Buffer OSP

V 8-Ct Tight Buffer OSP

W 10-Ct Tight Buffer OSP

Y 12-Ct Tight Buffer OSP Breakout Cable

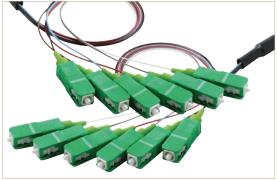
Pre-Terminated Indoor Cable Jumper Assemblies

Ordering Instructions: Complete the form by filling in each block with the appropriate bold letter or number that corresponds to the choice in each menu item. The product must have a combination of 15 letters/numbers.

Example: FBJE52A2A003F11

Fill out re	BJ maining spaces										
Fiber	Туре	Fiber Count	Singlemode Multimode	Connector 1	Polish 1	Connector 2	Polish 2	Cable Total Length	Meters, Feet, Inches	Cable Furcation (Breakout) Length	Meters, Feet, Inche
F Fiber	BJ Breakout Jumper	A 2-Ct OFNR Breakout Cable B 2-Ct OFNP Breakout Cable C 4-Ct OFNR Breakout Cable D 4-Ct OFNR Breakout Cable E 6-Ct OFNR Breakout Cable F 6-Ct OFNR Breakout Cable F 6-Ct OFNR Breakout Cable H 8-Ct OFNR Breakout Cable I 10-Ct OFNR Breakout Cable I 10-Ct OFNR Breakout Cable I 10-Ct OFNR Breakout Cable V 12-Ct OFNR Breakout Cable N 12-Ct OFNR Breakout Cable N 4-Ct Armored OSP Breakout Cable O 6-Ct Armored OSP Breakout Cable P 8-Ct Armored OSP Breakout Cable Q 10-Ct Armored OSP Breakout Cable	 5 Singlemode 9/125 7 Multimode 50/125 8 Multimode 62.5/125 	1 ST 2 SC 3 FC 4 MTRJ 5 LC 6 MU 7 E2000 8 DIN 9 MPO 0 D4	A APC (Angle) P PC U UPC (Ultra) M Male (MT), for MTRJ connector only F Female (MT), for MTRJ connector only	1 ST 2 SC 3 FC 4 MTRJ 5 LC 6 MU 7 E2000 8 DIN 9 MPO 0 D4	A APC (Angle) P PC U UPC (Ultra) M Male (MT), for MTRJ connector only F Female (MT), for MTRJ connector only	 001 1 002 2 003 3 through 999 999 	M Meters F Feet I Inches	1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 0 10	M Meters F Feet I Inches
						Choose by	mance Fiber Fiber Count,	Fiber Mode		or Type, Conr	

- Polish, Cable Length, and Cable Furcation Length
- Precision Manufactured
- Flame Retardant PVC Jacket
- 100% Factory Tested and Certified
- Excellent Insertion and Return Loss Characteristics
- Compliant with TIA/EIA-568B.3 and Telcordia Standards





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M Meters

F Feet I Inches

Pre-Terminated Indoor Cable Pigtail Assemblies

Ordering Instructions: Complete the form by filling in each block with the appropriate bold letter or number that corresponds to the choice in each menu item. The product must have a combination of 13 letters/numbers.

Example: FBPB52A002M2M

					Example: FBP	B52A002M2N	М		
Fill out remain	BP Breakout Pigtail	Fiber Count A 2-Ct OFNR Breakout Cable B 2-Ct OFNP Breakout Cable C 4-Ct OFNR Breakout	Singlemode Multimode 5 Singlemode 9/125 7 Multimode 50/125	Connector 1 ST 2 SC 3 FC	Polish A APC (Angle) P PC	Cable Total Length 001 1 002 2 003 3	Meters, Feet, Inches M Meters F Feet I Inches	Cable Furcation (Breakout) Length 1 1 2 2	M / F F
		Cable D 4-Ct OFNP Breakout Cable E 6-Ct OFNR Breakout Cable F 6-Ct OFNP Breakout Cable G 8-Ct OFNR Breakout Cable H 8-Ct OFNP Breakout Cable I 10-Ct OFNR Breakout	8 Multimode 62.5/125	 4 MTRJ 5 LC 6 MU 7 E2000 8 DIN 9 MPO 	W UPC (Ultra) M Male (MT), for MTRJ connector only F Female (MT), for MTRJ	through 999 999		4 4 5 5 6 6 6 7 7 8 8 8 9 9	
		Cable J 10-Ct OFNP Breakout Cable K 12-Ct OFNR Breakout Cable L 12-Ct OFNP Breakout Cable M 2-Ct Armored OSP Breakout Cable N 4-Ct Armored OSP Breakout Cable O 6-Ct Armored OSP Breakout Cable Q 10-Ct Armored OSP Breakout Cable Q 10-Ct Armored OSP Breakout Cable Q 10-Ct Armored OSP Breakout Cable T 12-Ct Armored OSP Breakout Cable C 10-Ct Armored OSP Breakout Cable U 10-Ct Armored OSP Breakout Cable C 10-Ct Tight Buffer OSP Breakout Cable U 6-Ct Tight Buffer OSP Breakout Cable		! !	Customized Connector P Precision Ma Flame Retard 100% Factord Excellent Ins	mance Fiber C by Fiber Cour Polish, Cable L anufactured dant PVC Jack ry Tested and G sertion and Re	nt, Fiber Modent, Fiber Modent ength and Ca tet Certified eturn Loss Ch	in Fiber Optic Note, Connector Typable Furcation Learners aracteristics are are aracteristics are are aracteristics are are aracteristics are	ngth



W 10-Ct Tight Buffer OSP Breakout Cable Y 12-Ct Tight Buffer OSP Breakout Cable

Connectors

Ordering Instructions: Complete the form by filling in each block with the appropriate bold letter or number that corresponds to the choice in each menu item. The product must have a combination of 10 letters/numbers.

Example: FC5S2A20PC

Fill out rema	C ining spaces						
Fiber	Туре	Singlemode Multimode	Simplex/ Duplex	Connector	Polish	Cable Diameter	Assembly Type and Ferrule Type
F Fiber	C Connector	 5 Singlemode 125μm 6 Multimode 126μm 8 Multimode 127μm 	S Simplex D Duplex	 ST SC FC MTRJ LC MU E2000 DIN MPO D4 	A APC (Angle) P PC M Male (MT), for MTRJ connector only F Female (MT), for MTRJ connector only	 30 3.0mm 20 2.0mm 18 18.mm 16 1.6mm 09 0.9mm 	BU Bulk OP One piece PC Pre-dome single piece AC Conical ferrule single piece AS Step ferrule single piece CP Pre 8° conical ferrule single piece CS Pre 8° step ferrule single piece

Specifications

- Categorized by Fiber Mode, Simplex or Duplex Construction, Connector Type, Connector Polish, Cable Diameter, Assembly Type and Ferrule Type
- One-Piece Construction
- Precision Manufactured
- 100% Factory Tested and Certified
- Compliant with TIA/EIA-568B.3 and Telcordia Standards





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Adapters

Ordering Instructions: Complete the form by filling in each block with the appropriate bold letter or number that corresponds to the choice in each menu item. The product must have a combination of 13 letters/numbers.

Example: FDMDHS0101PZ0

Fill out rema	D aining spaces								
Fiber	Туре	Material	Shape	Simplex/ Duplex	Connector 1	Connector 2	Polish	Sleeve	Color (Only for Plastic Adapter)
F Fiber	D Adapters	M MetalP PlasticB Bare	DH "D" Hole for ST & FC Simplex for Metal DD "DD" Hole for ST,FC, & DIN Simplex for Metal RF Rectangular Flange SF Square Flange VD Vertical Duplex for SC Type QU Quad for SC Type	S SimplexD Duplex	 01 ST 02 SC 03 FC 4M MTRJ/Male 4F MTRJ/Female 05 LC 06 MU 07 E2000 08 DIN 09 MPO 00 D4 	 01 ST 02 SC 03 FC 4M MTRJ/Male 4F MTRJ/Female 05 LC 06 MU 07 E2000 08 DIN 09 MPO 00 D4 	SC/PC ² FC/AF	FDM: Tabs Co C FDM: Slot V	N None (for Metal Adapter) 0 Blue 1 Green (APC) 2 Beige 3 Black 4 Yellow 5 Custom idth=2.2±0.05 blor Coded Blue Nidth=2.2±0.02mm Color Coded Green



Specifications

- Categorized by Type of Material, Simplex or Duplex Construction, Shape, Connector Type, Connector Polish, Type of Sleeve and Color
- Precision Manufactured
- Molded Thermoplastic or Nickel-Plated Brass Bodies
- Zirconia or Phosphor Bronze Sleeves
- 100% Factory Tested and Certified
- Compliant with TIA/EIA-568B.3 and Telcordia Standards



Terminators

Ordering Instructions: Complete the form by filling in each block with the appropriate bold letter or number that corresponds to the choice in each menu item. The product must have a combination of 4 letters/numbers. Example:FT1P

F Fill out rom	T aining spaces		
Till out tell	anning spaces		
Fiber	Туре	Connector	Polish
F Fiber	T Terminator	1 ST	A APC (Angle)
		2 SC	P PC
		3 FC	U UPC (Ultra)
		4 LC	
		5 MU	



Specifications

- Categorized by Connector Type and Polish
- Improves Signal Performance
- Maintains Neat Appearance
- Protects Unused Ports from Damage
- Reduces Back Reflections on Unused Ports
- Precision Manufactured
- Low Back Reflection
- High Power Endurance
- Simple Manipulation
- 100% Factory Tested and Certified
- Compliant with TIA/EIA-568B.3 and Telcordia Standards



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Attenuators

Ordering Instructions: Complete the form by filling in each block with the appropriate bold letter or number that corresponds to the choice in each menu item. The product must have a combination of 8 letters/numbers.

Example: FA822A20

Fill out rema	A aining spaces					
Fiber	Туре	Singlemode Multimode	Wavelength	Connector	Polish	Attenuation Loss (dB)*
F Fiber	A Attenuator	5 Singlemode 9/1258 Multimode 62.5/125	1 1310nm 2 1550nm 3 1310 & 1550nm 4 850nm 5 850 & 1300nm	1 ST 2 SC 3 FC 4 LC 5 MU	A APC (Angle)P PCU UPC (Ultra)	 01 1dB 02 2dB 03 3dB 05 5dB 10 10dB 15 15dB 20 20dB
						20 20dB25 25dB

^{*} Custom Attenuation Values Available Upon Request



Specifications

- Categorized by Fiber Mode, Wavelength, Connector Type, Connector Polish, Attenuation
- Precision Manufactured
- Low Ripple
- Excellent Environmental Stability
- 300mW Power-Handling Capability
- Polarized Insensitive
- Attenuator Values from -1 to -25dB
- Doped Fiber Process
- 100% Factory Tested and Certified
- Excellent Insertion and Return Loss Characteristics
- Compliant with TIA/EIA-568B.3 and Telcordia Standards

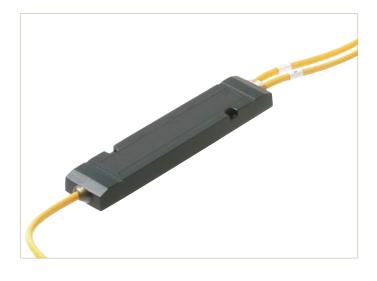


Wavelength Division Multiplexers

Ordering Instructions: Complete the form by filling in each block with the appropriate bold letter or number that corresponds to the choice in each menu item. The product must have a combination of 11 letters/numbers.

Example: FW350S1BB1P

Fill out rema	W ining spaces	35	0	S	1		В		
Fiber	Туре	Wavelength	Fiber Type	Grade	Port	Package Type	Pigtail Length	Connector	Polish
F Fiber	W Wavelength Division Multiplexer (WDM)	35 1310/1550nm	0 SMF-28	S Super	1 1x2	 B 250μm Bare Fiber L 900μm Loose Tube 3 []3mm Cable 	B 1 Meter	N No Connector1 ST2 SC3 FC5 LC6 MU	O No Polish P PC U UPC (Ultra) A APC (Angle)



Specifications

- Combines Multiple Optical Frequencies onto a Single Fiber
- Manufactured with Fused Taper Technology
- Categorized by Package Type, Connector Type and Connector Polish
- 1310/1550nm Wavelength
- SMF-28 Fiber
- Super Grade
- 1 x 2 Port Configuration
- 1m Pigtail Length
- Precision Manufactured
- 100% Factory Tested and Certified
- Compliant with TIA/EIA-568B.3 and Telcordia Standards



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Splitters

Ordering Instructions: Complete the form by filling in each block with the appropriate bold letter or number that corresponds to the choice in each menu item. The product must have a combination of 15 letters/numbers.

Example: FSX5SN13SA1BA2P

Fill out re	S maining spaces	;											
Fiber	Туре	Splitter Structure	Singlemode Multimode	Coupler Mode	Band Type	Wavelength	Grade	Port	Coupling Ratio %	Package	PigtailLength Meters Only	Connector	Polish
F Fiber	S Splitter	X X Type Y Y Type T Tree Type S Star Type	 5 Singlemode 9/125 7 Multimode 50/125 8 Multimode 62.5/125 	S Single Window D Dual Window	N Narrow Band D Broad Band	13 1310nm 15 1550nm 35 1310 & 1550nm 85 850nm 83 850 & 1300nm	S Super H High U Ultra	A1x2 B1x3 C1x4 D 1x8 E1x16 F1x32 G 2x2 H 4x4 I 8x8 J 16x16	1 1/99 2 5/95 3 10/90 4 20/80 5 30/70 6 40/60 7 50/50 8 15/85 9 25/75 0 35/65 A 45/55 B 333/33.3/33.4 C 25/25/25/25 D 12.5/12.5/12.5/12.5/ 12.5/12.5/12.5/12.5/ 6.25/6.25/6.25/6.25/6.25/6.25/6.25/6.25/	B 250µm Bare Fiber M 250µm Bare Fiber for Mini Coupler L 900µm Loose Tube 2 []2mm Cable 3 []3mm Cable G 250µm Bare Fiber with LGX BOX	A 0.5 Meters B 1 Meter C 1.5 Meters D 2 Meters	 N No Conn. 1 ST 2 SC 3 FC 4 LC 5 MU 	O No Polish P PC U UPC (Ultra) A APC (Angle)

Specifications

- Combines Optical Signals from Multiple Fibers or Divide Signals to Different Fibers
- Categorized by Splitter Structure, Fiber Mode, Single or Dual Window Mode, Bandwidth, Wavelength, Grade, Port Configuration, Coupling Ratio, Package, Pigtail Length, Connector Type and Connector Polish
- Precision Manufactured
- 100% Factory Tested and Certified
- Compliant with TIA/EIA-568B.3 and Telcordia Standards

