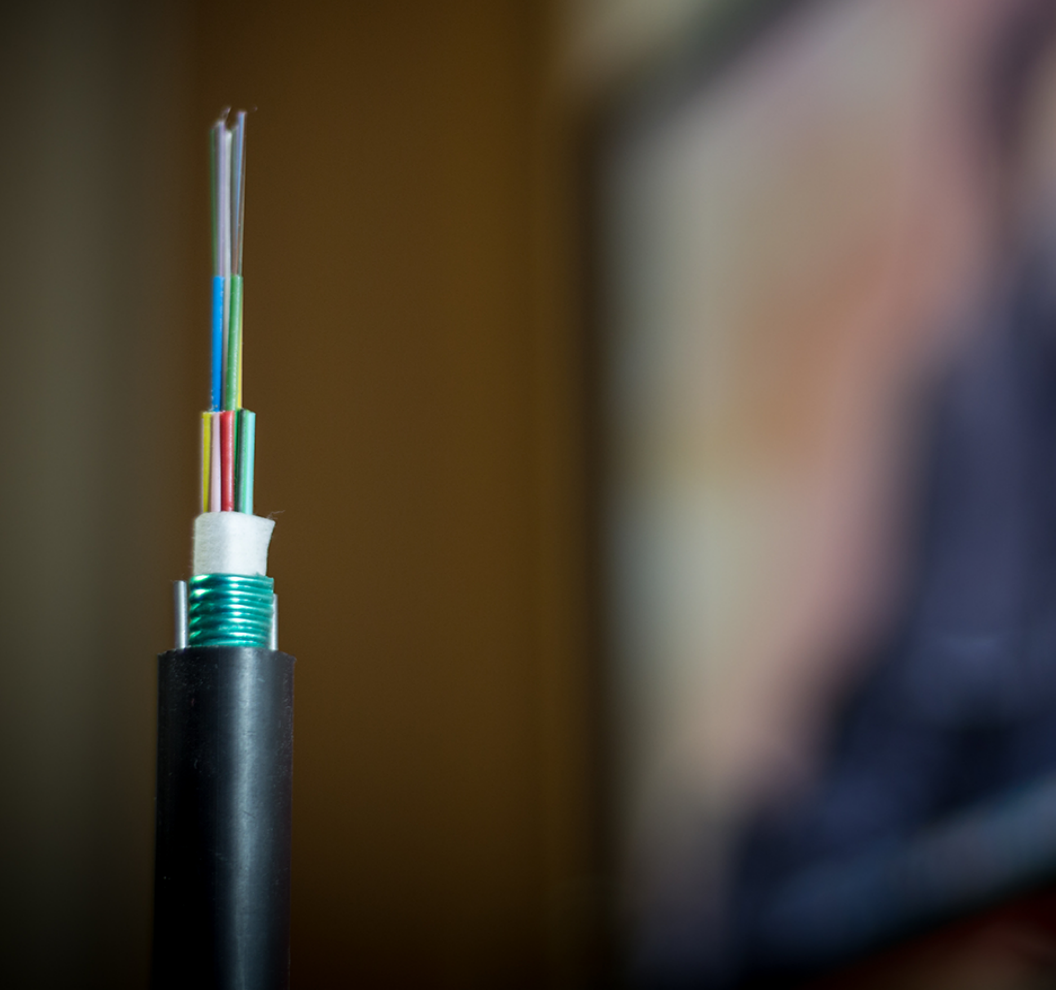


TechLogix Networx

Fiber Optic Solution Guide

Bulk Cable
Specialty & Custom Cables
Premade & Patch Cables
Couplers & Adapters
Installation Accessories
Electronics & Networking

TechLogix Networx

Fiber Optic Termination Kit

TL-SSF-TERMK-01

The fiber optic termination kit includes all of the gear you need to work with TechLogix fiber and connectors in the field.

Key Contents:

- Visual fault locator (650nm)
- Cleaver (pre-set for SSF™ fiber)
- Kevlar & aramid yarn scissors
- Tri-hole strippers

Fiber Optic Test Kit

TL-SSF-TESTK-01

The fiber optic test kit provides the essential tools for testing optical link quality and metering total run loss for both single mode and multimode fiber optic installations.

Key Contents:

- Optical power meter
- Single mode optical light source
- Multimode optical light source
- Reference cables & adapters

Connector & Port Pen Cleaners

TL-PCLEAN-LC | LC connectors
TL-PCLEAN-SC | SC connectors

Pen-style cleaners (also known as “click cleaners”) are an essential tool for cleaning fiber optic connectors, ports, adapters, couplers and other accessories with optical lenses. They’re inexpensive and extremely simple to use.

Part	Description
TL-VFL-1MW	Visual Fault Locator -- 1mW output for 5km signal distribution
TL-VFL-LC-ADPT	Visual Fault Locator LC connector adapter -- 2.5mm to 1.25mm
TL-KSHEER	Kevlar and aramid yarn sheers
TL-3STRIP	Fiber optic three-hole jacket/coating stripper
TL-SSF-CLEAVER	Fiber optic precision cleaver -- pre-set for SSF™ fiber
TL-SSF-TESTK-2	Premium fiber optic test kit with software reporting
TL-SSF-TERMK-2	Premium fiber optic termination kit

Don't see what you're looking for? TechLogix offers thousands of special-order items. Contact us for assistance.

Helpful Hint:
SSF™ stands for *stronger*, *safer* and *faster.* It's a fiber optic technology popularized by Cleerline in which a polymer coating is applied to the glass fiber strand. Polymer coated fiber provides 10,000x more strength and durability than traditional fiber and can be safely handled without protective equipment.

TechLogix SSF™ fiber delivers industry-leading strength and durability. Boasting a 3mm bend radius and 220lb pull-rating, SSF™ fiber survives even the toughest installations and environments.

Duplex Multimode OM3 Riser-Rated Fiber

M3-50125DR | 1,000 ft. pull-spool

- Duplex (two strand) 50/125 zip-cord construction
- 3.0mm overall jacketing on strands
- Patented polymeric coating for strength & safety
- No cleaning or polishing required
- Rated for indoor installations

Duplex Multimode OM3 Plenum-Rated Fiber

M3-50125DP | 1,000 ft. pull-spool

- Duplex (two strand) 50/125 zip-cord construction
- 3.0mm overall jacketing on strands
- Patented polymeric coating for strength & safety
- No cleaning or polishing required
- Rated for indoor & outdoor installations

Helpful Hint:
Design a custom bulk cable online at www.tlnetworx.com. Customize fiber type, strand count, jacket construction & armoring.

Part	Fiber Type	Strand Count	Rating	Environment	Notes
S2S-1M-P	Single Mode | OS2	1	Plenum	Indoor/Outdoor	
S2S-2Z-P	Single Mode | OS2	2	Plenum	Indoor/Outdoor	Zip-cord
S2S-2M-P	Single Mode | OS2	2	Plenum	Indoor/Outdoor	
S2S-4M-P	Single Mode | OS2	4	Plenum	Indoor/Outdoor	
S2S-6M-P	Single Mode | OS2	6	Plenum	Indoor/Outdoor	
S2S-12M-P	Single Mode | OS2	12	Plenum	Indoor/Outdoor	
S2S-2M-DB	Single Mode | OS2	2	Direct Burial	Outdoor	Armored
S2S-6M-DB	Single Mode | OS2	6	Direct Burial	Outdoor	Armored
S2S-12M-DB	Single Mode | OS2	6	Direct Burial	Outdoor	Armored
S2S-6M-PA	Single Mode | OS2	6	Plenum	Indoor	Armored
S2S-12M-PA	Single Mode | OS2	12	Plenum	Indoor	Armored
S2S-4B-T	Single Mode | OS2	4	Riser	Indoor/Outdoor	Tactical
S2S-2M-T	Single Mode | OS2	2	Riser	Indoor/Outdoor	Tactical
S2S-12M-T	Single Mode | OS2	12	Riser	Indoor/Outdoor	Tactical
M3S-1M-R	Multimode | OM3	1	Riser	Indoor	
M3S-1M-P	Multimode | OM3	1	Plenum	Indoor/Outdoor	
M3S-4B-R	Multimode | OM3	4	Riser	Indoor	Breakout
M3S-4B-P	Multimode | OM3	4	Plenum	Indoor/Outdoor	Breakout
M3S-2M-P	Multimode | OM3	2	Plenum	Indoor/Outdoor	
M3S-4M-P	Multimode | OM3	4	Plenum	Indoor/Outdoor	
M3S-6M-P	Multimode | OM3	6	Plenum	Indoor/Outdoor	
M3S-12M-R	Multimode | OM3	12	Riser	Indoor	
M3S-12M-P	Multimode | OM3	12	Plenum	Indoor/Outdoor	
M3S-2M-DB	Multimode | OM3	2	Direct Burial	Outdoor	Armored
M3S-6M-DB	Multimode | OM3	6	Direct Burial	Outdoor	Armored
M3S-12M-DB	Multimode | OM3	12	Direct Burial	Outdoor	Armored
M3S-6M-PA	Multimode | OM3	6	Plenum	Indoor	Armored
M3S-12M-PA	Multimode | OM3	12	Plenum	Indoor	Armored
M3S-4B-T	Multimode | OM3	4	Riser	Indoor/Outdoor	Tactical
M3S-2M-T	Multimode | OM3	2	Riser	Indoor/Outdoor	Tactical
M3S-12M-T	Multimode | OM3	12	Riser	Indoor/Outdoor	Tactical
M4S-1M-P	Multimode | OM4	1	Plenum	Indoor/Outdoor	
M4S-2Z-P	Multimode | OM4	2	Plenum	Indoor/Outdoor	Zip-cord
M4S-4B-R	Multimode | OM4	4	Riser	Indoor	Breakout
M4S-4B-P	Multimode | OM4	4	Plenum	Indoor/Outdoor	Breakout
M4S-6M-P	Multimode | OM4	6	Plenum	Indoor/Outdoor	
M4S-12M-P	Multimode | OM4	12	Plenum	Indoor/Outdoor	

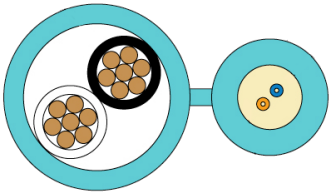
Bundled Two Strand OM3 Fiber + Two Cat 6

M3S-2M-2CAT6 | 500 ft. pull-spool

- Duplex (two strand) 50/125 multimode OM3
- Two Cat 6
- 14.0mm overall blue jacket
- Indoor riser-rated
- Internal rip cord

Bundled Two Strand OM3 Fiber + 2 Conductor 18 AWG

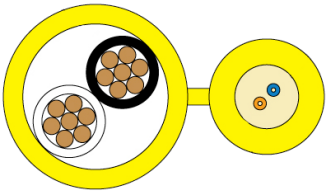
M3S-2M-218AWG | 1,000 ft. pull-spool



- Duplex (two strand) 50/125 multimode OM3
- Two 18 AWG copper strands
- 8.4mm overall zip-cord aqua jacket
- Indoor/outdoor plenum-rated
- Ideal for transmitting power to remote fiber optic devices

Bundled Two Strand OS2 Fiber + 2 Conductor 18 AWG

S2S-2M-218AWG | 1,000 ft. pull-spool



- Duplex (two strand) 9/125 single mode OS2
- Two 18 AWG copper strands
- 8.4mm overall zip-cord yellow jacket
- Indoor/outdoor plenum-rated
- Ideal for transmitting power to remote fiber optic devices

Part	Description
TL-SPLICE	Universal mechanical splice for OM3, OM4 & OS2 fiber
FAN-4M-25	4 strand 900µm fan-out kit for OM3, OM4 & OS2 fiber 25” length
FAN-4M-36	4 strand 900µm fan-out kit for OM3, OM4 & OS2 fiber 36” length
FAN-6M-25	6 strand 900µm fan-out kit for OM3, OM4 & OS2 fiber 25” length
FAN-6M-36	6 strand 900µm fan-out kit for OM3, OM4 & OS2 fiber 36” length
FAN-12M-25	12 strand 900µm fan-out kit for OM3, OM4 & OS2 fiber 25” length
FAN-12M-36	12 strand 900µm fan-out kit for OM3, OM4 & OS2 fiber 36” length
BRK-6M-40	6 strand 3.0mm breakout kit for OM3, OM4 & OS2 fiber 40” length
BRK-12M-40	12 strand 3.0mm breakout kit for OM3, OM4 & OS2 fiber 40” length

Don’t see what you’re looking for? TechLogix offers thousands of special-order items. Contact us for assistance.

Helpful Hint:
Fan-out kits provide added protection for multi-strand cables when patching in wall-boxes and rack trays. Breakout kits provide even heavier protection, eliminating the need for patch panels.

TechLogix mechanical fiber optic connectors completely eliminate the need to hand polish, epoxy or crimp in the field. Each model features an exclusive hinge-based design and amber verification window to ensure termination is done quickly and properly.

Multimode OM3 / OM4 LC Connectors

M3-50125-LC10 | 10 pack

- Terminate in less than one minute
- Compatible with 250µm, 900µm, 2.0mm & 3.0mm cables
- No polishing or epoxying required
- No crimping or proprietary tools required
- Large built-in verification window
- Re-terminate up to 12 times

Multimode OM3 / OM4 SC Connectors

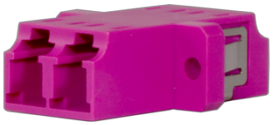
M3-50125-SC10 | 10 pack

- Terminate in less than one minute
- Compatible with 250µm, 900µm, 2.0mm & 3.0mm cables
- No polishing or epoxying required
- No crimping or proprietary tools required
- Large built-in verification window
- Re-terminate up to 12 times

Part	Fiber Type	Connector Type	Style
S2-9125-LC10	Single Mode | OS2	LC	Ultra (standard)
S2-9125-LCA10	Single Mode | OS2	LC	Angled
S2-9125-SC10	Single Mode | OS2	SC	Ultra (standard)
S2-9125-SCA10	Single Mode | OS2	SC	Angled

Don't see what you're looking for? TechLogix offers thousands of special-order items. Contact us for assistance.

TechLogix fiber optic adapters and couplers allow you to connect cables, populate rack trays and wall-boxes, and convert connector formats.



LC to LC coupler

M4D-ADPT-LCLC

- Female LC to female LC
- Duplex (two strand)
- Multimode OM3 / OM4

LC to LC coupler

S2D-ADPT-LCLC

- Female LC to female LC
- Duplex (two strand)
- Single mode OS2

SC to SC coupler

M4D-ADPT-SCSC

- Female SC to female SC
- Duplex (two strand)
- Multimode OM3 / OM4

SC to SC coupler

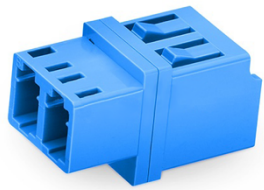
S2D-ADPT-SCSC

- Female SC to female SC
- Duplex (two strand)
- Single mode OS2

LC to LC wallplate keystone

M4D-KS-LCLC

- Female LC to female LC
- Duplex (two strand)
- Multimode OM3 / OM4



LC to LC wallplate keystone

S2D-KS-LCLC

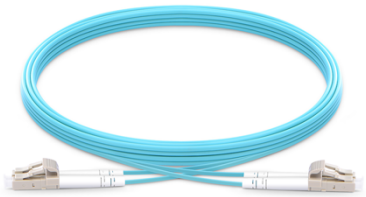
- Female LC to female LC
- Duplex (two strand)
- Single mode OS2

Part	Type	Fiber Type	Side A	Side B
S2M4D-ADPT-LCSC	Adapter	Single Mode | OS2 Multimode | OM3 Multimode | OM4	Duplex Female LC	Duplex Female SC
M4S-KS-SCSC	Wallplate Keystone	Multimode | OM3 Multimode | OM4	Simplex Female SC	Simplex Female SC
S2S-KS-SCSC	Wallplate Keystone	Single Mode | OS2	Simplex Female SC	Simplex Female SC
S1-LC-F-LC-F	Coupler	Single Mode | OS2	Simplex Female LC	Simplex Female LC
S1-LCA-F-LCA-F	Coupler	Single Mode | OS2	Simplex Female LC Angled	Simplex Female LC Angled
M1-SC-F-SC-F	Coupler	Multimode | OM3 Multimode | OM4	Simplex Female SC	Simplex Female SC
S1-SC-F-SC-F	Coupler	Single Mode | OS2	Simplex Female SC	Simplex Female SC
S1-SCA-F-SCA-F	Coupler	Single Mode | OS2	Simplex Female SC Angled	Simplex Female SC Angled
S1-LC-F-SC-F	Adapter	Single Mode | OS2	Simplex Female LC	Simplex Female SC
S1-LC-F-SC-F	Adapter	Single Mode | OS2	Simplex Female LC	Simplex Female SC
S1-LC-F-ST-M	Adapter	Single Mode | OS2	Simplex Female LC	Simplex Male ST
S1-LC-F-FC-M	Adapter	Single Mode | OS2	Simplex Female LC	Simplex Male FC
S1-SC-F-LC-M	Adapter	Single Mode | OS2	Simplex Female SC	Simplex Male LC
S1-ST-F-SC-M	Adapter	Single Mode | OS2	Simplex Female ST	Simplex Male SC

Don't see what you're looking for? TechLogix offers thousands of special-order items. Contact us for assistance.

Economy Premade Fiber Cables

M4D-ECO | Duplex multimode OM4
S2D-ECO | Duplex single mode OS2



- Available in LC/LC, SC/SC & LC/SC
- UPC connectors
- Riser-rated jacket
- Bend-insensitive fiber with 7.5mm bend radius
- Stock lengths: 1m, 2m, 3m, 5m, 7m, 10m

Armored Premade Fiber Cables

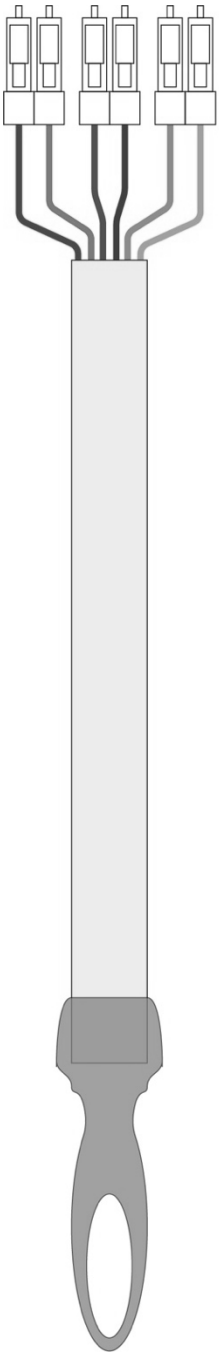
M4D-ARM | Duplex multimode OM4
S2D-ARM | Duplex single mode OS2

- Available in LC/LC, SC/SC & LC/SC
- UPC connectors
- Riser-rated jacket
- Bend-insensitive fiber with 7.5mm bend radius
- Internal helical stainless-steel tape & mesh armoring
- Stock lengths: 5m, 7m, 10m, 15m, 20m, 30m, 40m, 50m

Black Series™ Premade Fiber Cables

M4D-BLK | Duplex multimode OM4

- Available in LC/LC & SC/SC
- UPC connectors
- Tactical water & UV rated jacket
- Bend-insensitive fiber with 7.5mm bend radius
- Internal helical stainless-steel tape & mesh armoring
- Stock lengths: 1m, 2m, 3m, 5m, 7m, 10m, 15m, 20m, 30m, 40m, 50m



Design a custom premade fiber optic cable online at www.tlnetworx.com. Customize length, fiber type, strand count, construction, connectors and pulling mesh.

Cable Length: _____ ☐ meters ☐ feet

Fiber Type:
☐ OM3 (multimode)
☐ OM4 (multimode)
☐ OS2 (single mode)
☐ other: _____ _____

Strand Count:
☐ one strand
☐ two strands
☐ four strands
☐ six strands
☐ eight strands
☐ twelve strands
☐ 24 strands
☐ other: _____

Construction:
☐ riser
☐ plenum
☐ armored
☐ SSF™
☐ LSZH
☐ direct burial
☐ outdoor
☐ tactical
☐ other: _____

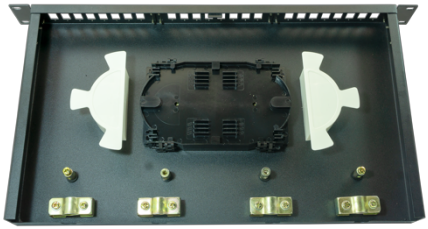
Connectors: (end A)
☐ LC
☐ LC APC
☐ SC
☐ SC APC
☐ FC
☐ ST
☐ other:_____

Connectors: (end B)
☐ LC
☐ LC APC
☐ SC
☐ SC APC
☐ FC
☐ ST
☐ other:_____

Pulling Mesh: ☐ end A ☐ end B ☐ none

24-port 1RU Rack Tray

TL-24P-RT



- 24 total customizable ports for use with TechLogix couplers
- 1RU mounting size
- Built-in fiber cable coiler
- Secure enclosed design including top & end panels
- Compatible couplers:
  - M4D-ADPT-LCLC
  - M4D-ADPT-SCSC
  - S2D-ADPT-LCLC
  - S2D-ADPT-SCSC

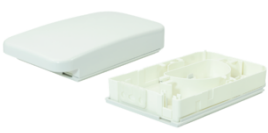
8-port Indoor Wall-Box

TL-8P-DB-I

- 8 total customizable ports for use with TechLogix couplers
- Built-in fiber cable coiler
- Compatible couplers:
  - M4D-ADPT-LCLC
  - M4D-ADPT-SCSC
  - S2D-ADPT-LCLC
  - S2D-ADPT-SCSC

2-port Indoor/Outdoor Wall-Box

TL-2P-DB-O



- 2 total customizable ports for use with TechLogix couplers
- Built-in fiber cable coiler
- Compatible couplers:
  - M4D-ADPT-LCLC
  - M4D-ADPT-SCSC
  - S2D-ADPT-LCLC
  - S2D-ADPT-SCSC

TechLogix offers custom and special-order mounting solutions, including rack trays, wall-mount boxes and demarc boxes. Please contact the factory for pricing and design assistance.

Demarc Boxes

Part	Description
24 fiber demarc	Customizable outdoor wall-mount fiber optic terminal box. Compatible with up to 12 standard TechLogix couplers.
48 fiber demarc	Customizable outdoor wall-mount fiber optic terminal box. Compatible with up to 24 standard TechLogix couplers.
72 fiber demarc	Customizable outdoor wall-mount fiber optic terminal box. Compatible with up to 36 standard TechLogix couplers.

Rack Tray Distribution Units

Part	Description
1 RU rack tray	Customizable 1RU rack-mount distribution unit. Mounting slots for up to 72 fibers / connectors.
2 RU rack tray	Customizable 2RU rack-mount distribution unit. Mounting slots for up to 144 fibers / connectors.
3 RU rack tray	Customizable 3RU rack-mount distribution unit. Mounting slots for up to 192 fibers / connectors.
4 RU rack tray	Customizable 4RU rack-mount distribution unit. Mounting slots for up to 288 fibers / connectors.

Wall-Mount Distribution Units

Part	Description
Small Wall-Box	Customizable wall-mount distribution unit. Available with or without keylock. Mounting slots for up to 48 fibers / connectors.
Medium Wall-Box	Customizable wall-mount distribution unit. Available with or without keylock. Mounting slots for up to 96 fibers / connectors.
Large Wall-Box	Customizable wall-mount distribution unit. Available with or without keylock. Mounting slots for up to 192 fibers / connectors.

10G HDMI Extender Set

TL-FO-HD

- 10G 4K30 HDMI
- Transmit up 1,000 ft. over simplex (one strand) single mode or multimode fiber
- Power via USB or AC
- Male HDMI connector for direct connection to source & display devices

18G HDMI & Control Extender Set

TL-FO2-HDC

- Compressed 4K60 4:4:4 HDR HDMI
- Transmit up 1,000 ft. over duplex (two strands) multimode fiber
- Swappable SFP+ port for single mode fiber
- Bi-directional IR & RS232 control
- Automatic signal compression

18G HDMI & Control Extender Set

TL-FO2-HDC2

- Native uncompressed 4K60 4:4:4 HDR HDMI
- Transmit up 1,000 ft. over duplex (two strands) single mode or multimode fiber
- Bi-directional IR & RS232 control
- Integrated ARC pass-through

USB 2.0 Extender Set

TL-FO-USB2-01

- Compatible with USB 2.0 (hi-speed) & USB 1.1 (low-speed & full-speed)
- Transmit up 1,640 ft. over duplex (two strands) multimode fiber
- Swappable SFP port for single mode fiber
- Receiver features built-in four port hub
- System powered only on the receive end

USB 3.0 Extender Set

TL-FO-USB3-01

- Compatible with USB 3.0 (SuperSpeed)
- Transmit up 330 ft. over duplex (two strands) multimode fiber
- Swappable SFP port for single mode fiber
- Receiver features built-in two port hub
- System powered only on the receive end

Universal USB Extender Set

TL-FO-USB3-02

- Compatible with USB 3.0 (SuperSpeed), USB 2.0 (hi-speed) & USB 1.1 (low-speed & full-speed)
- Transmit up 660 ft. over duplex (two strands) multimode fiber
- Swappable SFP port for single mode fiber
- Receiver features built-in four port hub

DVI Extender Set

TL-FO-DVI

- Max resolution of 1920x1200
- Transmit up 1,000 ft. over simplex (one strand) single mode or multimode fiber
- Power via USB or AC
- Male DVI connector for direct connection to source & display devices

18G HDMI, Control & Network Transmitter

TL-IPFO-T01

- Compressed 4K60 4:4:4 HDR HDMI
- Transmit up 1,000 ft. over duplex (two strands) multimode fiber
- Swappable SFP+ port for single mode fiber
- Bi-directional IR & RS232 control
- Integrated 1G network port
- Operates as a point-to-point extender or network-based AV over IP system (requires compatible receiver)

18G HDMI, Control & Network Receiver

TL-IPFO-R01

- Compressed 4K60 4:4:4 HDR HDMI
- Transmit up 1,000 ft. over duplex (two strands) multimode fiber
- Swappable SFP+ port for single mode fiber
- Bi-directional IR & RS232 control
- Integrated 1G network port
- Operates as a point-to-point extender or network-based AV over IP system (requires compatible transmitter)

Network Modules

Part	Style	Fiber Type	Connectors	Distance
TL-10GSFPP-MM300	10G SFP+	Multimode | OM3 Multimode | OM4	Duplex LC	300m 984 ft.
TL-1GSFP-MM550	1G SFP	Multimode | OM3 Multimode | OM4	Duplex LC	550m 1,805 ft.
TL-10GSFPP-SM10K	10G SFP+	Single Mode | OS2	Duplex LC	10km 6.2 miles
TL-1GSFP-SM20K	1G SFP	Single Mode | OS2	Duplex LC	20km 12.4 miles

Direct Attach Cables

Part	Length	Connectors	Wire Gauge
TL-10GDAC-01	1m 3 ft.	SFP SFP+	30 AWG
TL-10GDAC-03	3m 10 ft.	SFP SFP+	30 AWG
TL-10GDAC-07	7m 23 ft.	SFP SFP+	24 AWG

Don't see what you're looking for? TechLogix offers thousands of special-order items. Contact us for assistance.

Helpful Hint:
Direct attach cables eliminate the need for SFP modules and patch cords when connecting network switches and other fiber-based components over short distances. They're essentially cables with built-in SFP connectors.

Sales & Support Phone:
+1-608-960-7242

Sales & Support Email:
info@tlnetworx.com

Website:
www.tlnetworx.com

Register for 1-on-1 Training:
www.tlnetworx.com/fibertraining

Media over Fiber Optics™

Connecting AV at the Speed of Light.