Global leaders in the provision of Plastic Optical Fiber solutions and optical transceivers.

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2019 Product Catalog

Firecomms™

Firecomms 2019 Product Range

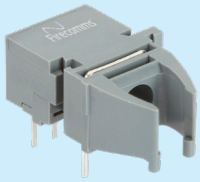
Accelerating the evolution of machine communication

RedLink® Horizontal
RedLink® Vertical
RedLink® 30^0 Tilted
OptoLock® Transceivers
LC Transceivers
Plugs
Cable Assemblies
Accessories
POF Cable

RedLink® Horizontal

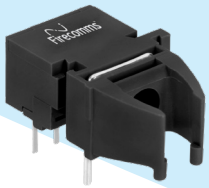
DC-50 MBd

Transmitter



Part Number	Orientation	Description	Supply Voltage	Life Status*
FT50MHNR	Horizontal	DC-50 MBd, 650 nm RCLED, with integrated driver, non-inverting logic	5V/3.3V	●
FT50MHIR	Horizontal	DC-50 MBd, 650 nm RCLED, with integrated driver, inverting logic	5V/3.3V	●

Receiver



Part Number	Orientation	Description	Supply Voltage	Life Status*
FR50MHIR	Horizontal	DC-50 MBd, inverting logic	5V/3.3V	●
FR50MHNR	Horizontal	DC-50 MBd, non-inverting logic	5V/3.3V	●
Not recommended For New Designs (NFND)				
FM50MHIR	Horizontal	DC-50 MBd, inverting logic	5V/3.3V	●
FM50MHNR	Horizontal	DC-50 MBd, non-inverting logic	5V/3.3V	●

DC-10 MBd

Transmitter

Part Number	Orientation	Description	Supply Voltage	Life Status*
FT10MHNR	Horizontal	DC-10 MBd, 650 nm RCLED, non-inverting logic	Analog	●
FT10MHLR	Horizontal	DC-10 MBd, low current 650 nm RCLED	Analog	●
FT10DHIR	Horizontal	DC-10 MBd, 650 nm RCLED, with integrated driver, inverting logic	5V/3.3V	●
FT10DHNR	Horizontal	DC-10 MBd, 650 nm RCLED,with integrated driver, non-inverting logic	5V/3.3V	●

Receiver

Part Number	Orientation	Description	Supply Voltage	Life Status*
FR10DHIR	Horizontal	DC-10 MBd, inverting logic	5V/3.3V	●
FR10DHNR	Horizontal	DC-10 MBd, non-inverting logic	5V/3.3V	●
Not recommended For New Designs (NFND)				
FM10DHIR	Horizontal	DC-10 MBd, inverting logic	5V/3.3V	●
FM10DHNR	Horizontal	DC-10 MBd, non-inverting logic	5V/3.3V	●

* ● Recommended designs†
● Not recommended For New Designs (NFND)††

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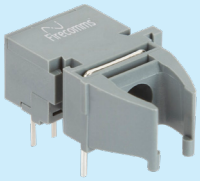
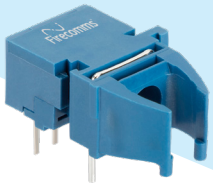
DC-5 MBd

Transmitter



Part Number	Orientation	Description	Supply Voltage	Life Status*
FT05MHNR	Horizontal	DC-5 MBd, 650 nm RCLED, non-inverting logic	Analog	●

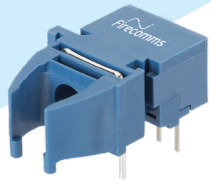
Receiver



Part Number	Orientation	Description	Supply Voltage	Life Status*
FR05DHDR	Horizontal	DC-5 MBd, 20V open collector output, inverting logic	5V/3.3V	●
FR05DHIR	Horizontal	DC-5 MBd, with TTL I/O, dual voltage, inverting logic	5V/3.3V	●
FR05DHCR	Horizontal	DC-5 MBd, open collector output, with 1k internal pull-up resistor	5V/3.3V	●
Not recommended For New Designs (NFND)				
FM05DHIR	Horizontal	DC-5 MBd with TTL I/O, inverting logic	5V/3.3V	●
FM05DHCR	Horizontal	DC-5 MBd, open collector output, with 1k internal pull-up resistor	5V/3.3V	●
FM05MHCR	Horizontal	DC-5 MBd, open collector output, 1kOhm pull-up resistor	5V	●
FM05MHIR	Horizontal	DC-5 MBd, inverting logic	5V	●

DC-2 MBd

Receiver



Part Number	Orientation	Description	Supply Voltage	Life Status*
FR20DHIR	Horizontal	DC-2 MBd, 20V open collector output, inverting logic	5V/3.3V	●
Not recommended For New Designs (NFND)				
FM20VHIR	Horizontal	DC-2 MBd, 20V open collector output, inverting logic	5V	●

* ● Recommended designs†
● Not recommended For New Designs (NFND)††

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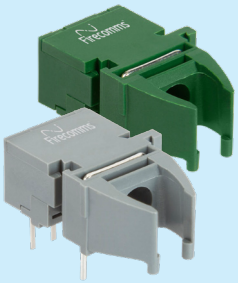
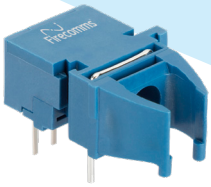
DC-1 MBd

Transmitter



Part Number	Orientation	Description	Supply Voltage	Life Status*
FT01MHNG	Horizontal	DC-1 MBd, 530 nm Green LED, non-inverting logic	Analog	●
FT01MHNR	Horizontal	DC-1 MBd, 650 nm RCLED, non-inverting logic	Analog	●

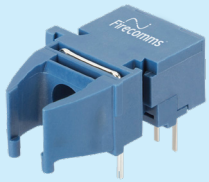
Receiver



Part Number	Orientation	Description	Supply Voltage	Life Status*
FR01DHDR	Horizontal	DC-1 MBd, 20V open collector output, inverting logic	5V/3.3V	●
FR01DHIR	Horizontal	DC-1 MBd with TTL I/O, inverting logic	5V/3.3V	●
Not recommended For New Designs (NFND)				
FM01MHIR	Horizontal	DC-1 MBd, inverting logic	5V	●

Analog

Receiver



Part Number	Orientation	Description	Supply Voltage	Life Status*
FR00AHAR	Horizontal	Analog, 500 um photodiode	Analog	●

* ● Recommended designs†
● Not recommended For New Designs (NFND)††

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RedLink® Vertical

DC-50 MBd

Transmitter

Part Number	Orientation	Description	Supply Voltage	Life Status*
FT50MVNR	Vertical	DC-50 MBd, 650 nm RCLED, with integrated driver, non-inverting logic	5V/3.3V	●
FT50MVIR	Vertical	DC-50 MBd, 650 nm RCLED, with integrated driver, inverting logic	5V/3.3V	●

Receiver

Part Number	Orientation	Description	Supply Voltage	Life Status*
FR50MVIR	Vertical	DC-50 MBd, inverting logic	5V/3.3V	●
FR50MVNR	Vertical	DC-50 MBd non-inverting logic	5V/3.3V	●
Not recommended For New Designs (NFND)				
FM50MVIR	Vertical	DC-50 MBd, inverting logic	5V/3.3V	●
FM50MVNR	Vertical	DC-50 MBd, non-inverting logic	5V/3.3V	●

DC-10 MBd

Transmitter

Part Number	Orientation	Description	Supply Voltage	Life Status*
FT10MVNR	Vertical	DC-10 MBd, 650 nm RCLED, non-inverting logic	Analog	●
FT10MVLR	Vertical	DC-10 MBd, low current 650 nm RCLED	Analog	●
FT10DVIR	Vertical	DC-10 MBd, 650 nm RCLED, with integrated driver, inverting logic	5V/3.3V	●
FT10DVNR	Vertical	DC-10 MBd, 650 nm RCLED, with integrated driver, non-inverting logic	5V/3.3V	●

Receiver

Part Number	Orientation	Description	Supply Voltage	Life Status*
FR10DVIR	Vertical	DC-10 MBd, inverting logic	5V/3.3V	●
FR10DVNR	Vertical	DC-10 MBd, non-inverting logic	5V/3.3V	●
Not recommended For New Designs (NFND)				
FM10DVIR	Vertical	DC-10 MBd, inverting logic, inverting logic	5V/3.3V	●
FM10DVNR	Vertical	DC-10 MBd, non-inverting logic	5V/3.3V	●

* ● Recommended designs†
● Not recommended For New Designs (NFND)††

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DC-5 MBd

Transmitter

Part Number	Orientation	Description	Supply Voltage	Life Status*
FT05MVNR	Vertical	DC-5 MBd, 650nm RCLED, non-inverting logic	Analog	●

Receiver

Part Number	Orientation	Description	Supply Voltage	Life Status*
FR05DVDR	Vertical	DC-5 MBd, 20V open collector output, inverting logic	5V/3.3V	●
FR05DVIR	Vertical	DC-5 MBd, with TTL I/O, inverting logic	5V/3.3V	●
FR05DVCR	Vertical	DC-5 MBd, open collector output, with 1k internal pull-up resistor	5V/3.3V	●
Not recommended For New Designs (NFND)				
FM05DVIR	Vertical	DC-5 MBd, with TTL I/O, inverting logic	5V/3.3V	●
FM05DVCR	Vertical	DC-5 MBd, open collector output, with 1k internal pull-up resistor	5V/3.3V	●
FM05MVCR	Vertical	DC-5 MBd open collector output, 1kOhm pull-up resistor	5V	●

DC-2 MBd

Receiver

Part Number	Orientation	Description	Supply Voltage	Life Status*
FR20DVIR	Vertical	DC-2 MBd, 20V open collector output, inverting logic	5V/3.3V	●
Not recommended For New Designs (NFND)				
FM20VVIR	Vertical	DC-2 MBd, 20V open collector output, inverting logic	5V	●

* ● Recommended designs†
● Not recommended For New Designs (NFND)††

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DC-1 MBd

Transmitter

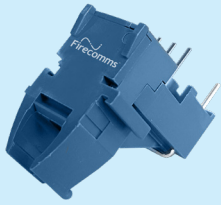
Part Number	Orientation	Description	Supply Voltage	Life Status*
FT01MVNR	Vertical	DC-1 MBd, 650 nm RCLED, non-inverting logic	Analog	●

Receiver

Part Number	Orientation	Description	Supply Voltage	Life Status*
FR01DVDR	Vertical	DC-1 MBd, 20V open collector output, inverting logic	5V/3.3V	●
FR01DVIR	Vertical	DC-1 MBd with TTL I/O, inverting logic	5V/3.3V	●
Not recommended For New Designs (NFND)				
FM01MVIR	Vertical	DC-1 MBd with TTL I/O, inverting logic	5V	●

Analog

Receiver



Part Number	Orientation	Description	Supply Voltage	Life Status*
FR00AVAR	Vertical	500 um photodiode	Analog	●

* ● Recommended designs†
● Not recommended For New Designs (NFND)††

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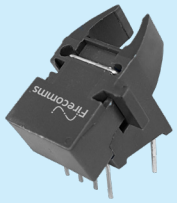
RedLink® 30° Tilted

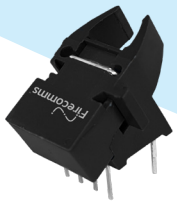
DC-50 MBd

Transmitter



Part Number	Orientation	Description	Supply Voltage	Life Status*
FT50MWNR	Tilted	DC-50 MBd, 650 nm RCLED, with integrated driver, non-inverting logic	5V/3.3V	●
FT50MWIR	Tilted	DC-50 MBd, 650 nm RCLED, with integrated driver, inverting logic	5V/3.3V	●

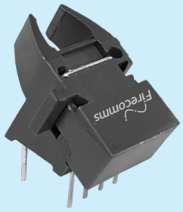
Receiver



Part Number	Orientation	Description	Supply Voltage	Life Status*
FR50MWIR	Tilted	DC-50 MBd inverting logic	5V/3.3V	●
FR50MWNR	Tilted	DC-50 MBd, non-inverting logic	5V/3.3V	●

DC-10 MBd

Transmitter



Part Number	Orientation	Description	Supply Voltage	Life Status*
FT10MWNR	Tilted	DC-10 MBd, 650 nm RCLED	Analog	●
FT10MWLR	Tilted	DC-10 MBd, low current 650 nm RCLED	Analog	●
FT10DWIR	Tilted	DC-10 MBd, 650 nm RCLED, integrated driver, inverting logic	5V/3.3V	●
FT10DWNR	Tilted	DC-10 MBd, 650 nm RCLED, integrated driver, non-inverting logic	5V/3.3V	●

Receiver

Part Number	Orientation	Description	Supply Voltage	Life Status*
FR10DWIR	Tilted	DC-10 MBd, inverting logic	5V/3.3V	●
FR10DWNR	Tilted	DC-10 MBd, non-inverting logic	5V/3.3V	●

* ● Recommended designs†
● Not recommended For New Designs (NFND)††

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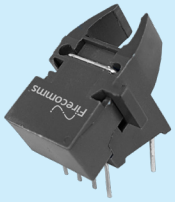
DC-5 MBd

Transmitter



Part Number	Orientation	Description	Supply Voltage	Life Status*
FT05MWNR	Tilted	DC-5 MBd, 650 nm RCLED	Analog	●

Receiver

Part Number	Orientation	Description	Supply Voltage	Life Status*
FR05DWDR	Tilted	DC-5 MBd, 20V open collector output, inverting logic	5V/3.3V	●
FR05DWIR	Tilted	DC-5 MBd with TTL I/O	5V/3.3V	●
FR05DWCR	Tilted	DC-5 MBd, open-collector output, with 1k internal pull-up resistor	5V/3.3V	●

DC-1 MBd

Transmitter

Part Number	Orientation	Description	Supply Voltage	Life Status*
FT01MWNR	Tilted	DC-1 MBd, 650 nm RCLED, non-inverting logic	Analog	●

Receiver

Part Number	Orientation	Description	Supply Voltage	Life Status*
FR01DWDR	Tilted	DC-1 MBd, 20V open collector output, inverting logic	5V/3.3V	●
FR01DWIR	Tilted	DC-1 MBd with TTL I/O, inverting logic	5V/3.3V	●

Analog

Receiver

Part Number	Orientation	Description	Supply Voltage	Life Status*
FR00AWAR	Tilted	500 um photodiode	Analog	●

* ● Recommended designs†
● Not recommended For New Designs (NFND)††

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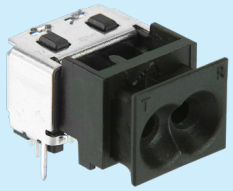
OptoLock® Transceivers

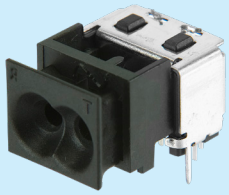
10/125/250 Mbps



Part Number	Description	Supply Voltage	Life Status*
FB2M5KVR	OptoLock® termination 2.2 mm POF, 10/125/250 Mbps, LVDS, with SD§, black, sleep mode	3.3V	●
FB2M5BVR	OptoLock® termination 1.5 mm POF, 10/125/250 Mbps, LVDS, with SD§, black, sleep mode	3.3V	●
FB2M5KRR	OptoLock® termination 2.2 mm POF, 10/125/250 Mbps, LVDS, with RSSI§, black, sleep mode	3.3V	●
FB2M5BRR	OptoLock® termination 1.5 mm POF, 10/125/250 Mbps, LVDS, with RSSI§, black, sleep mode	3.3V	●
Not recommended For New Designs (NFND)			
IDL300T-220	OptoLock® termination 2.2 mm POF, 10/125/250 Mbps with bare fiber, LVDS I/O, black, sleep mode	3.3V	●
IDL300T-229	OptoLock® termination 2.2 mm POF, 10/125/250 Mbps with bare fiber, LVDS I/O, white, sleep mode	3.3V	●

§ For LVPECL or non-magnetic devices, please contact the Firecomms Sales & Field Applications Engineering team.

10/125 Mbps



Part Number	Description	Supply Voltage	Life Status*
Not recommended For New Designs (NFND)			
FB1M2KPR	OptoLock® termination 2.2 mm POF, 10/125 Mbps with bare fiber, with LVPECL I/O, black	3.3V	●
EDL300T-220	OptoLock® termination 2.2 mm POF, 10/125 Mbps with bare fiber, with LVDS I/O, black	3.3V	●
EDL300T-150	OptoLock® termination 1.5 mm POF, 10/125 Mbps with bare fiber, with LVDS I/O, black	3.3V	●
EDL301T-220	OptoLock® termination 2.2 mm POF, 10/125 Mbps with bare fiber, with LVPECL I/O, black	3.3V	●
EDL300T-229	OptoLock® termination 2.2 mm POF, 10/125 Mbps with bare fiber, with LVDS I/O, white	3.3V	●
EDL301T-229	OptoLock® termination 2.2 mm POF, 10/125 Mbps with bare fiber, with LVPECL I/O, white	3.3V	●

* ● Recommended designs†
● Not recommended For New Designs (NFND)††

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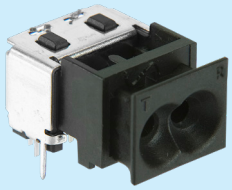
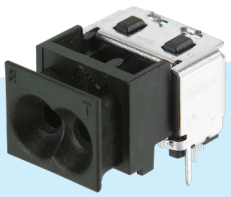
DC-50 MBd



Part Number	Description	Supply Voltage	Life Status*
FE50MKNR	OptoLock® termination, with TTL I/O, non-inverting Tx and non-inverting Rx outputs	5V/3.3V	●
FE50MKIR	OptoLock® termination, with TTL I/O, non-inverting Tx and inverting Rx outputs	5V/3.3V	●

Analog

Part Number	Description	Supply Voltage	Life Status*
FB00AKAR	OptoLock® termination, 650 nm RCLED, 500 um photodiode with bare fiber	Analog	●



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● Not recommended For New Designs (NFND)††

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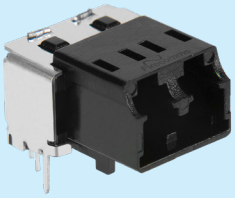
LC Transceivers

10/125/250 Mbps

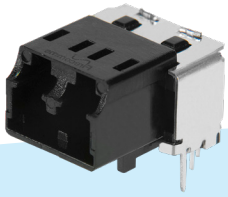


Part Number	Description	Supply Voltage	Life Status*
FB2M5LVR	LC termination, 10/125/250 Mbps, LVDS, with SD§	3.3V	●
FB2M5LRR	LC termination, 10/125/250 Mbps, LVDS, with RSSI§	3.3V	●
FB2M5LBR	LC termination, 10/125/250 Mbps, LVDS, with SD§, non-magnetic	3.3V	●

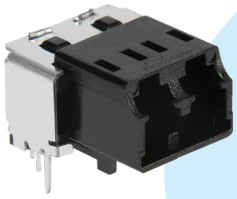
§ For LVPECL applications, please contact the Firecomms Sales & Field Applications Engineering team.

10/125 Mbps

Part Number	Description	Supply Voltage	Life Status*
Not recommended For New Designs (NFND)			
FB1M2LPR	LC fiber termination, with LVPECL I/O.	3.3V	●



DC-50 MBd



Part Number	Description	Supply Voltage	Life Status*
FE50MLIR	LC termination, and with TTL I/O, non-inverting Tx and inverting Rx outputs	5V/3.3V	●
FE50MLNR	LC termination, with TTL I/O, non-inverting Tx and non-inverting Rx outputs	5V/3.3V	●

* ● Recommended designs†
● Not recommended For New Designs (NFND)††

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Plugs

LC plug

Part Number	Description
FP-00C-LD0	LC plug for POF
FG-00D-LZ0	LC plug dust cap

Simplex friction plugs (no latch)

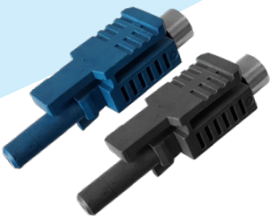
Part Number	Description
FP-00C-US0	RedLink® simplex friction plug, blue (crimp ring, no latch)
FP-00C-VS0	RedLink® simplex friction plug, gray (crimp ring, no latch)

Simplex friction crimpless plugs

Part Number	Description
FP-00C-HS0	RedLink® simplex friction plug, gray (crimpless, no latch)
FP-00C-GS0	RedLink® simplex friction plug, blue (crimpless, no latch)
FP-00C-TS0	RedLink® simplex friction plug, black (crimpless, no latch)

Simplex latching plugs

Part Number	Description
FP-00C-XS0	RedLink® simplex latching plug, blue (latch and crimp ring)
FP-00C-YS0	RedLink® simplex latching plug, gray (latch and crimp ring)



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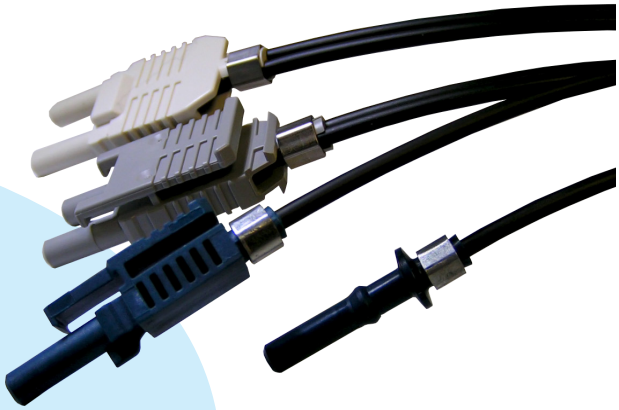
Cable Assemblies



Part Number	Description
FD-xxx-LDB	xxx m LC duplex patch cord 0.5NA SI-POF
FD-xxx-BSB	xxx m RedLink® simplex patch cable with friction plug 0.5NA SI-POF (gray and blue crimped plugs)
FD-xxx-CSB	xxx m RedLink® simplex patch cable with latch plug 0.5NA SI-POF (gray and blue crimped plugs)
FD-xxx-RDB	xxx m RedLink® duplex patch cable with duplex friction plug 0.5NA SI-POF (gray crimped plugs)
FD-xxx-SDB	xxx m RedLink® duplex patch cable with duplex latch plug 0.5NA SI-POF (gray crimped plugs)
FD-xxx-ASB	xxx m RedLink® simplex patch cable with friction plug 0.5NA SI-POF (gray and Blue crimpless plugs)
FD-xxx-PSB	xxx m RedLink® simplex patch cable with friction plug 0.5NA SI-POF (gray and Black crimpless plugs)
FD-xxx-ADB	xxx m RedLink® duplex patch cable with friction plug 0.5NA SI-POF (gray and Blue crimpless plugs)
FD-xxx-NDB	xxx m RedLink® duplex patch cable with interlocking simplex friction plugs 0.5NA SI-POF (gray crimpless plugs)
FD-xxx-PDB	xxx m RedLink® duplex patch cable with friction plug 0.5NA SI-POF (gray and black crimpless plugs)

Firecomms xxx Code	**Length**
xxC	xxcm patch cord (Max 99 cm)
xxM	xxm patch cord (Max 50 m)
500	500 m reel

Note: For example
A 30 cm patch cord would have the code 30C
A 5 m patch cord would have the code 05M

** Contact your Firecomms local sales representative for custom cables.*

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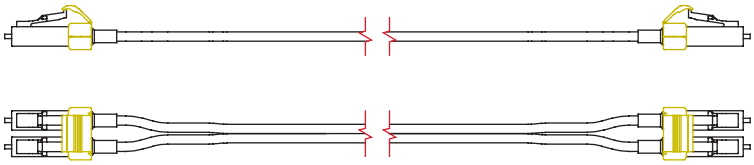
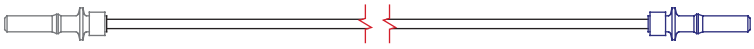
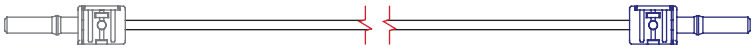
Cable Assemblies



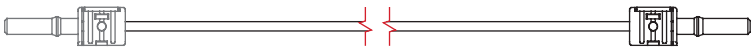
Duplex LC Plugs
FD-xxx-LDB



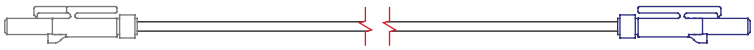
Simplex Crimped Friction Plugs
Grey & Blue, FD-xxx-BSB



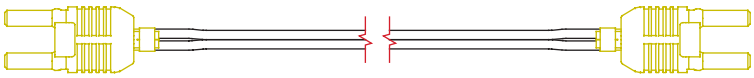
Simplex Crimpless Friction Plugs
Grey & Blue, FD-xxx-ASB



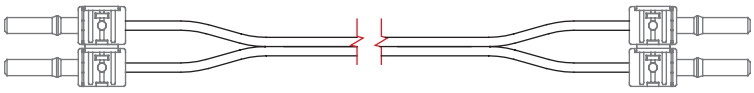
Simplex Crimpless Friction Plugs
Grey & Black, FD-xxx-PSB



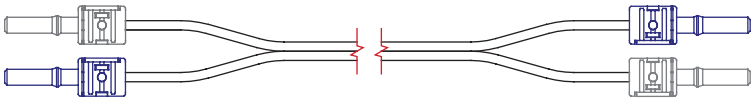
Simplex Crimped Latching Plugs
Grey & Blue, FD-xxx-CSB



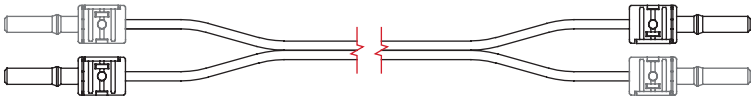
Duplex Crimped Friction Plugs
Cream, FD-xxx-RDB



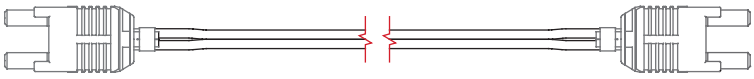
Duplex Interlocking Simplex
Crimpless Friction Plugs.
Grey, FD-xxx-NDB



Duplex Simplex Crimpless
Friction Plugs
Grey & Blue, FD-xxx-ADB



Duplex Simplex Crimpless
Friction Plugs
Grey & Black, FD-xxx-PDB



Duplex Crimped Latching Plugs
Grey, FD-xxx-SDB

Firecomms xxx Code	**Length**
xxC	xxcm patch cord (Max 99 cm)
xxM	xxm patch cord (Max 50 m)
500	500 m reel

Note: For example
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A 5 m patch cord would have the code 05M

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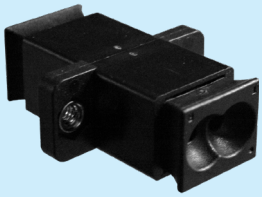
Accessories

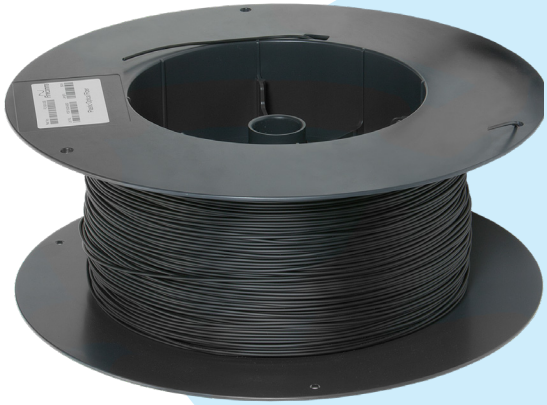
OptoLock® bulkhead adaptor



LC panel mounted adaptor

Part Number	Description
PC220F-410	POF cutting/termination tool
FA-BFC-KXD	Bulkhead feedthrough adaptor, Optolock®
FP-00C-LX0	LC panel mounted adaptor

Plastic Optical Fiber



Part Number	Description
FC-500-0SB	500 m Reel 0.5NA SI-POF 2.2 mm simplex
FC-500-0DB	500 m Reel 0.5NA SI-POF 2.2 mm duplex

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