

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

Medical Imaging
Renewable Energy
Electric & Diesel Trains
Industrial Automation
Industrial Drives
Robotics
Smart Grid Automation
Home Networks

2025 Product Catalog



FirecommsTM



Firecomms 2025 Product Range

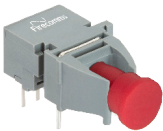
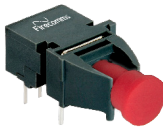
Accelerating the evolution of machine communication

RedLink® Horizontal
RedLink® Vertical
RedLink® 30° Tilted
OptoLock® Transceivers
LC Transceivers
SMI Transceivers
Media Converter & POF Switch
Evaluation Boards
Simplex Plugs
Duplex Plugs
Cable Assemblies
Accessories
POF Cable

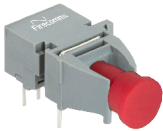
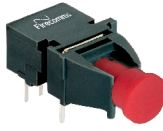


RedLink® Horizontal

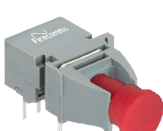
DC-50 MBd

TRANSMITTER	Part Number	Description
	FT50MHNR	DC-50 MBd, 650 nm RCLED, with integrated driver, horizontal, non-inverting logic. Supply Voltage 5 V / 3.3 V
	FT50MHIR	DC-50 MBd, 650 nm RCLED, with integrated driver, horizontal, inverting logic. Supply Voltage 5 V / 3.3 V
RECEIVER	Part Number	Description
	FR50MHIR	DC-50 MBd, horizontal, inverting logic. Supply Voltage 5 V / 3.3 V
	FR50MHNR	DC-50 MBd, horizontal, non-inverting logic. Supply Voltage 5 V / 3.3 V

DC-10 MBd

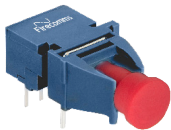
TRANSMITTER	Part Number	Description
	FT10MHNR	DC-10 MBd, 650 nm RCLED, horizontal, non-inverting logic. Supply Voltage Analog
	FT10MHLR	DC-10 MBd, low current 650 nm RCLED, horizontal. Supply Voltage Analog
	FT10DHIR	DC-10 MBd, 650 nm RCLED, with integrated driver, horizontal, inverting logic. Supply Voltage 5 V / 3.3 V
	FT10DHNR	DC-10 MBd, 650 nm RCLED, with integrated driver, horizontal, non-inverting logic. Supply Voltage 5 V / 3.3 V
RECEIVER	Part Number	Description
	FR10DHIR	DC-10 MBd, horizontal, inverting logic. Supply Voltage 5 V / 3.3 V
	FR10DHNR	DC-10 MBd, horizontal, non-inverting logic. Supply Voltage 5 V / 3.3 V

DC-5 MBd

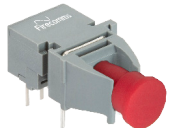
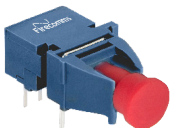
TRANSMITTER	Part Number	Description
	FT05MHNR	DC-5 MBd, 650 nm RCLED, horizontal, non-inverting logic. Supply Voltage Analog



RedLink® Horizontal

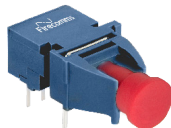
RECEIVER	Part Number	Description
	FR05DHDR	DC-5 MBd, MOSFET output switching up to 20V, horizontal, inverting logic. Supply Voltage 5 V / 3.3 V
	FR05DHIR	DC-5 MBd, with TTL I/O, dual voltage, horizontal, inverting logic. Supply Voltage 5 V / 3.3 V
	FR05DHCR	DC-5 MBd, open collector output, horizontal. Supply Voltage 5 V / 3.3 V

DC-1 MBd

TRANSMITTER	Part Number	Description
	FT01MHNH	DC-1 MBd, 650 nm RCLED, horizontal, non-inverting logic. Supply Voltage Analog
RECEIVER	Part Number	Description
	FR01DHDR	DC-1 MBd, MOSFET output switching up to 20V, horizontal, inverting logic. Supply Voltage 5 V / 3.3 V
	FR01DHIR	DC-1 MBd with TTL I/O, horizontal, inverting logic. Supply Voltage 5 V / 3.3 V



Analog

RECEIVER	Part Number	Description
	FR00AHAR	Supply Voltage Analog, 500 um photodiode only, horizontal

RedLink® Vertical

DC-50 MBd

TRANSMITTER	Part Number	Description
	FT50MVNR	DC-50 MBd, 650 nm RCLED, with integrated driver, vertical, non-inverting logic. Supply Voltage 5 V / 3.3 V
	FT50MVIR	DC-50 MBd, 650 nm RCLED, with integrated driver, vertical, inverting logic. Supply Voltage 5 V / 3.3 V
RECEIVER	Part Number	Description
	FR50MVIR	DC-50 MBd, vertical, inverting logic. Supply Voltage 5 V / 3.3 V
	FR50MVNR	DC-50 MBd, vertical, non-inverting logic. Supply Voltage 5 V / 3.3 V

DC-10 MBd

TRANSMITTER	Part Number	Description
	FT10MVNR	DC-10 MBd, 650 nm RCLED, vertical, non-inverting logic. Supply Voltage Analog
	FT10MVLr	DC-10 MBd, low current 650 nm RCLED, vertical. Supply Voltage Analog
	FT10DVIR	DC-10 MBd, 650 nm RCLED, with integrated driver, vertical, inverting logic. Supply Voltage 5 V / 3.3 V
	FT10DVNR	DC-10 MBd, 650 nm RCLED, with integrated driver, vertical, non-inverting logic. Supply Voltage 5 V / 3.3 V
RECEIVER	Part Number	Description
	FR10DVIR	DC-10 MBd, vertical, inverting logic. Supply Voltage 5 V / 3.3 V
	FR10DVNR	DC-10 MBd, vertical, non-inverting logic. Supply Voltage 5 V / 3.3 V

DC-5 MBd

TRANSMITTER	Part Number	Description
	FT05MVNR	DC-5 MBd, 650 nm RCLED, vertical, non-inverting logic. Supply Voltage Analog



RECEIVER	Part Number	Description
	FR05DVDR	DC-5 MBd, MOSFET output switching up to 20V, vertical, inverting logic. Supply Voltage 5 V / 3.3 V
	FR05DVIR	DC-5 MBd, with TTL I/O, dual voltage, vertical, inverting logic. Supply Voltage 5 V / 3.3 V
	FR05DVCR	DC-5 MBd, open collector output, vertical. Supply Voltage 5 V / 3.3 V

DC-1 MBd

TRANSMITTER	Part Number	Description
	FT01MVNR	DC-1 MBd, 650 nm RCLED, vertical, non-inverting logic. Supply Voltage Analog
RECEIVER	Part Number	Description
	FR01DVDR	DC-1 MBd, MOSFET output switching up to 20V, vertical, inverting logic. Supply Voltage 5 V / 3.3 V
	FR01DVIR	DC-1 MBd with TTL I/O, vertical, inverting logic. Supply Voltage 5 V / 3.3 V

Analog

RECEIVER	Part Number	Description
	FR00AVAR	Supply Voltage Analog, 500 um photodiode only, vertical



RedLink® 30° Tilted

DC-50 MBd

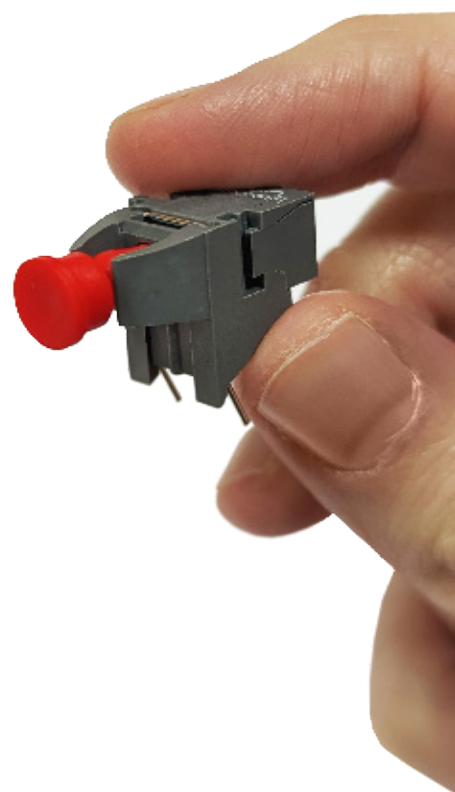
TRANSMITTER	Part Number	Description
	FT50MWNR	DC-50 MBd, 650 nm RCLED, with integrated driver, tilted, non-inverting logic. Supply Voltage 5 V / 3.3 V
	FT50MWIR	DC-50 MBd, 650 nm RCLED, with integrated driver, tilted, inverting logic. Supply Voltage 5 V / 3.3 V
RECEIVER	Part Number	Description
	FR50MWIR	DC-50 MBd, tilted, inverting logic. Supply Voltage 5 V / 3.3 V
	FR50MWNR	DC-50 MBd, tilted, non-inverting logic. Supply Voltage 5 V / 3.3 V

DC-10 MBd

TRANSMITTER	Part Number	Description
	FT10MWNR	DC-10 MBd, 650 nm RCLED, tilted, non-inverting logic. Supply Voltage Analog
	FT10MWLR	DC-10 MBd, low current 650 nm RCLED, tilted. Supply Voltage Analog
	FT10DWIR	DC-10 MBd, 650 nm RCLED, with integrated driver, tilted, inverting logic. Supply Voltage 5 V / 3.3 V
	FT10DWNR	DC-10 MBd, 650 nm RCLED, with integrated driver, tilted, non-inverting logic. Supply Voltage 5 V / 3.3 V
RECEIVER	Part Number	Description
	FR10DWIR	DC-10 MBd, tilted, inverting logic. Supply Voltage 5 V / 3.3 V
	FR10DWNR	DC-10 MBd, tilted, non-inverting logic. Supply Voltage 5 V / 3.3 V

DC-5 MBd

TRANSMITTER	Part Number	Description
	FT05MWNR	DC-5 MBd, 650 nm RCLED, tilted, non-inverting logic. Supply Voltage Analog

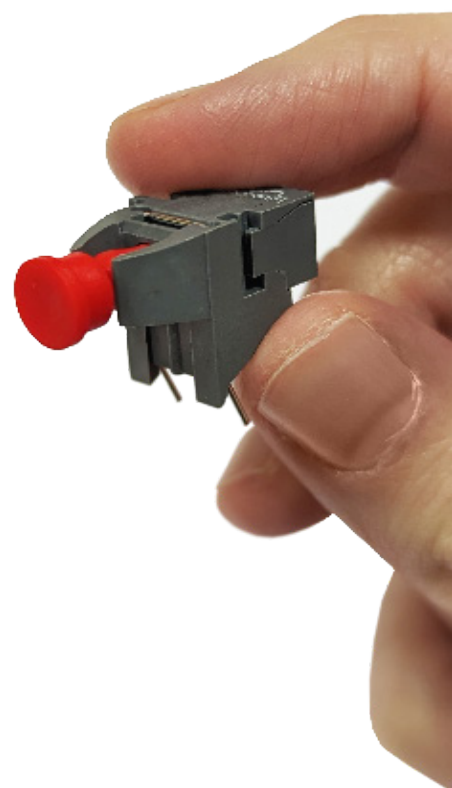


RedLink® 30° Tilted

RECEIVER	Part Number	Description
	FR05DWDR	DC-5 MBd, MOSFET output switching up to 20V, tilted, inverting logic. Supply Voltage 5 V / 3.3 V
	FR05DWIR	DC-5 MBd, with TTL I/O, dual voltage, tilted, inverting logic. Supply Voltage 5 V / 3.3 V
	FR05DWCR	DC-5 MBd, open collector output, tilted, Supply Voltage 5 V / 3.3 V

DC-1 MBd

TRANSMITTER	Part Number	Description
	FT01MWNR	DC-1 MBd, 650 nm RCLED, tilted, non-inverting logic. Supply Voltage Analog
RECEIVER	Part Number	Description
	FR01DWDR	DC-1 MBd, MOSFET output switching up to 20V, tilted, inverting logic. Supply Voltage 5 V / 3.3 V
	FR01DWIR	DC-1 MBd with TTL I/O, tilted, inverting logic. Supply Voltage 5 V / 3.3 V

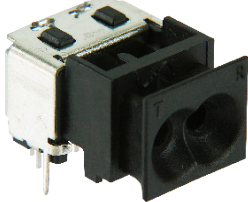


Analog

RECEIVER	Part Number	Description
	FR00AWAR	Supply Voltage Analog, 500 um photodiode only, tilted

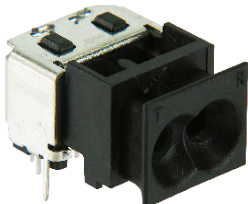
OptoLock® Transceivers

10/125/250/1250 Mbps

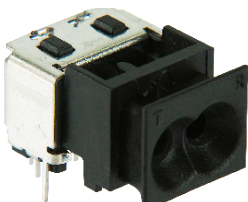
TRANSCEIVER	Part Number	Description
	FB01GKAR	OptoLock® termination 2.2 mm POF, GigE, 650 nm, Multilevel Encoded, black. Supply Voltage 3.3 V
	FB2M5KVR	OptoLock® termination 2.2 mm POF, 10/125/250 Mbps, LVDS, with SD [§] , black. Supply Voltage 3.3 V
	FB2M5KRR	OptoLock® termination 2.2 mm POF, 10/125/250 Mbps, LVDS, with RSSI [§] , black. Supply Voltage 3.3 V

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

DC-50 MBd

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

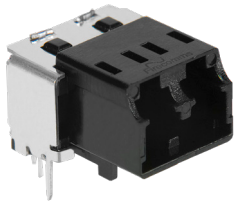
Analog

TRANSCEIVER	Part Number	Description
	FB00AKAR	OptoLock® termination, 650 nm RCLED, 500 um photodiode only with bare fiber. Supply Voltage Analog



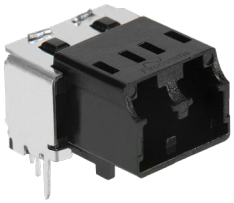
LC Transceivers

10/125/250 Mbps

TRANSCEIVER	Part Number	Description
	FB2M5LVR	LC termination, 10/125/250 Mbps, LVDS, with SD [§] . Supply Voltage 3.3 V
	FB2M5LRR	LC termination, 10/125/250 Mbps, LVDS, with RSSI [§] . Supply Voltage 3.3 V
	FB2M5LBR	LC termination, 10/125/250 Mbps FOTs, LVDS, with SD [§] , non-magnetic. Supply Voltage 3.3 V

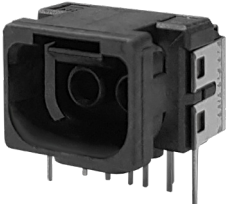
[§] For LVPECL applications, please contact the Firecomms Sales & Field Applications Engineering team.

DC-50 MBd

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

SMI Transceivers

DC-50 MBd

TRANSCEIVER	Part Number	Description
	FE50MSIR	SMI termination, DC-50 MBd with TTL I/O. non-inverting Tx and inverting Rx outputs. Supply Voltage 5 V / 3.3 V
	FE50MSNR	SMI termination, and with TTL I/O. non-inverting Tx and non-inverting Rx outputs. Supply Voltage 5 V / 3.3 V

Media Converter

Ethernet 100 Mbps (125 MBd)

MEDIA CONVERTER	Part Number	Description
	FY-ENC-KSU	Ethernet Media Converter, Black, OptoLock® for 2.2 mm POF
	FY-ENC-KKS	US kit includes: OptoLock® Media Converter, US power supply, USB power cable, 15 cm CAT5 cable and POF cutter
	FY-ENC-KKL	UK kit includes: OptoLock® Media Converter, UK power supply, USB power cable, 15 cm CAT5 cable and POF cutter
	FY-ENC-KKG	EU kit includes: OptoLock® Media Converter, EU power supply, USB power cable, 15 cm CAT5 cable and POF cutter

POF Switch

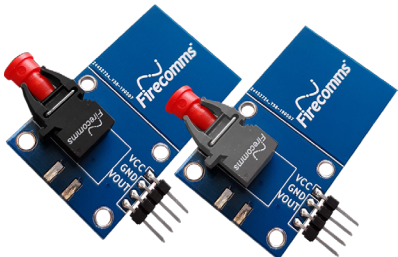
Ethernet 100 Mbps (125 MBd)

POF SWITCH	Part Number	Description
	FY-ES3-KSU	4 Port Fast Ethernet POF Switch
	FY-ES3-KKS	US kit includes: Ethernet POF Switch, US power supply, USB power cable and POF cutter
	FY-ES3-KKL	UK kit includes: Ethernet POF Switch, UK power supply, USB power cable and POF cutter
	FY-ES3-KKG	EU kit includes: Ethernet POF Switch, EU power supply, USB power cable and POF cutter

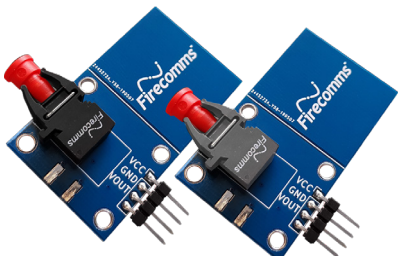
Evaluation Boards - RedLink®

Vertical, Tilted and other versions available can be built upon request with extended delivery times.

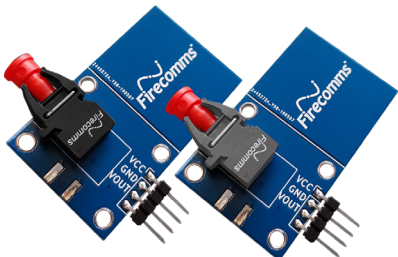
DC-50 MBd

EVALUATION BOARDS	Part Number	Description
	EVAL-FT50MHNR	FT50MHNR Evaluation Board
	EVAL-FR50MHNR	FR50MHNR Evaluation Board

DC-10 MBd

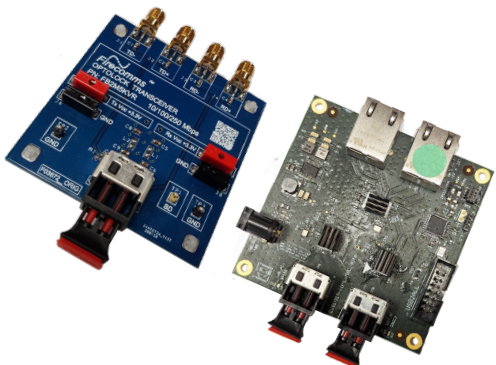
EVALUATION BOARDS	Part Number	Description
	EVAL-FT10MHNR	FT10MHNR Evaluation Board
	EVAL-FR10DHIR	FR10DHIR Evaluation Board

DC-5 MBd

EVALUATION BOARDS	Part Number	Description
	EVAL-FT05MHNR	FT05MHNR Evaluation Board
	EVAL-FR05DHIR	FR05DHIR Evaluation Board

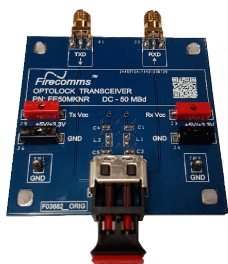
Evaluation Boards - OptoLock®

OptoLock® 10-1250 Mbps

EVALUATION BOARDS	Part Number	Description
	EVB1053-HOME-MXL	FB01GKAR Evaluation Board
	EVAL-FB2M5KVR	FB2M5KVR Evaluation Board
	EVAL-FB2M5KRR	FB2M5KRR Evaluation Board

§ EVB1053-HOME-MXL, Multilevel encoded GigE evaluation board will be supplied in partnership with KDPOF.

OptoLock® DC-50 MBd

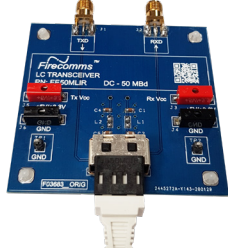
EVALUATION BOARDS	Part Number	Description
	EVAL-FE50MKIR	FE50MKIR Evaluation Board
	EVAL-FE50MKNR	FE50MKNR Evaluation Board

Evaluation Boards - LC Transceivers

LC 10-250 Mbps

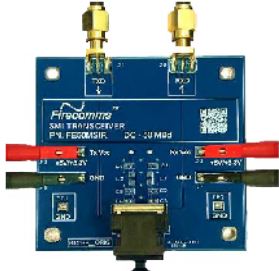
EVALUATION BOARDS	Part Number	Description
	EVAL-FB2M5LVR	FB2M5LVR Evaluation Board
	EVAL-FB2M5LRR	FB2M5LRR Evaluation Board

LC DC-50 MBd

EVALUATION BOARDS	Part Number	Description
	EVAL-FE50MLIR	FE50MLIR Evaluation Board
	EVAL-FE50MLNR	FE50MLNR Evaluation Board

Evaluation Boards - SMI Transceivers

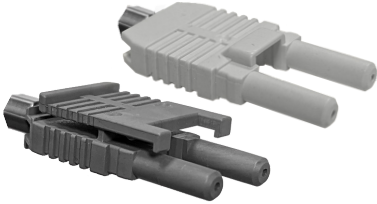
SMI DC-50 MBd

EVALUATION BOARDS	Part Number	Description
	EVAL-FE50MSIR	FE50MSIR Evaluation Board
	EVAL-FE50MSNR	FE50MSNR Evaluation Board

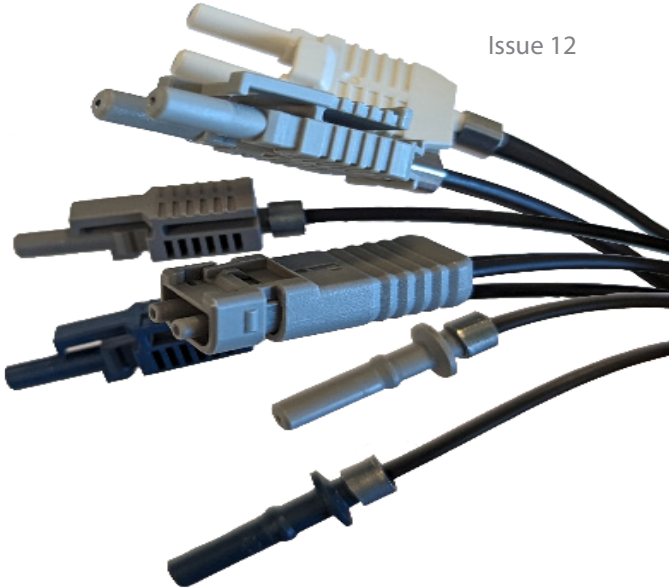
Simplex Plugs

SEALED SIMPLEX FRICTION PLUGS	Part Number	Description
	FP-00C-JS0	RedLink® simplex sealed friction plug, blue (*Light-Seal®)
	FP-00C-KS0	RedLink® simplex sealed friction plug, gray (*Light-Seal®)
SIMPLEX FRICTION PLUGS	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)

Duplex Plugs

DUPLEX LATCHING AND NON LATCHING PLUGS	Part Number	Description
	FP-00C-RD0	RedLink® Duplex Plug, white
	FP-00C-SD0	RedLink® Latched Duplex Plug, gray
LC PLUG	Part Number	Description
	FP-00C-LD0	LC plug for POF
	FG-00D-LZ0	LC plug dust cap
SMI LONG BODY PLUG	Part Number	Description
	FP-00C-3F0	SMI Long body Plug Kit (plug, clip and cover)
SMI SHORT BODY PLUG	Part Number	Description
	FP-00C-2F0	SMI Short body Plug Kit (plug and clip)

Cable Assemblies



Part Number	Description
FD-xxx-BSB	xxx m RedLink® simplex patch cable with friction plug 0.5NA SI-POF (gray and blue crimped plugs)
FD-xxx-QSB	xxx m RedLink® simplex patch cable with sealed friction plug 0.5NA SI-POF (gray and blue 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-CSB	xxx m RedLink® simplex patch cable with latch plug 0.5NA SI-POF (gray and blue crimped plugs)
FD-xxx-NDB	xxx m RedLink® duplex patch cable with interlocking simplex friction plugs 0.5NA SI-POF (gray 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-PDB	xxx m RedLink® duplex patch cable with friction plug 0.5NA SI-POF (gray and black crimpless plugs)
FD-xxx-SDB	xxx m RedLink® duplex patch cable with duplex latch plug 0.5NA SI-POF (gray crimped plugs)
FD-xxx-RDB	xxx m RedLink duplex patch cable with duplex friction plug 0.5NA SI-POF (Cream Crimped Plugs)
FD-xxx-LDB	xxx m LC duplex patch cord 0.5NA SI-POF
FD-xxx-3DB	xxx m SMI Long Body plug with duplex POF assembly
FD-xxx-2DB	xxx m SMI Short Body plug with duplex POF assembly

Firecomms xxx Code

xxC
xxM

Length

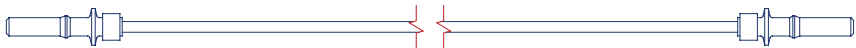
xx cm patch cord (Max 99 cm)
xx m patch cord (Max 50 m)

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

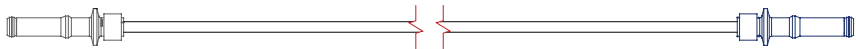
** Contact your Firecomms local sales representative for custom cables.*



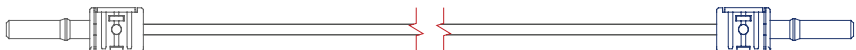
Cable Assemblies



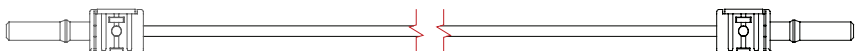
Simplex Crimped Friction Plugs
Gray & Blue, FD-xxx-BSB



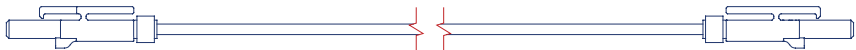
Sealed Simplex Friction Plugs
Gray & Blue, FD-xxx-QSB



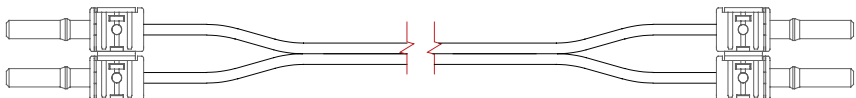
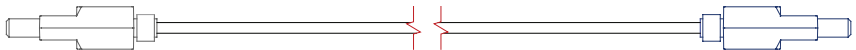
Simplex Crimpless Friction Plugs
Gray & Blue, FD-xxx-ASB



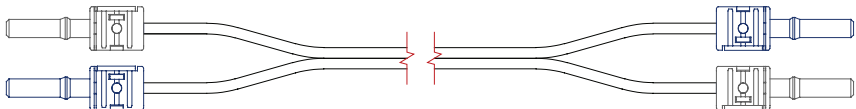
Simplex Crimpless Friction Plugs
Gray & Black, FD-xxx-PSB



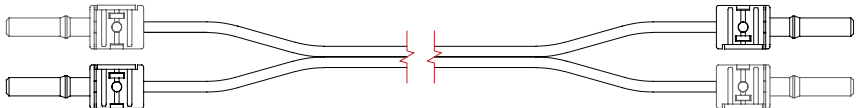
Simplex Crimped Latching Plugs
Gray & Blue, FD-xxx-CSB



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



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



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

Firecomms xxx Code

xxC
xxM

Length

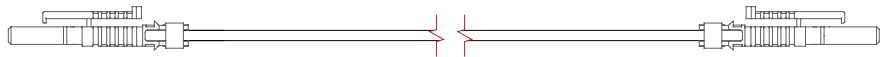
xx cm patch cord (Max 99 cm)
xx m patch cord (Max 50 m)

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

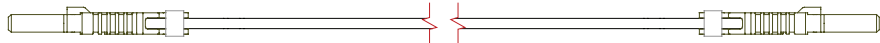
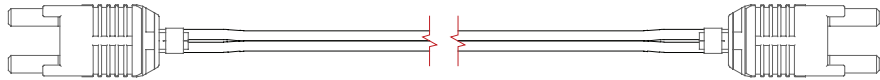
** Contact your Firecomms local sales representative for custom cables.*



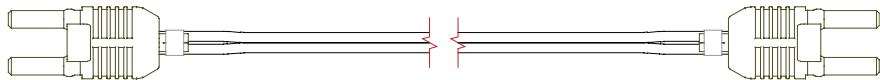
Cable Assemblies



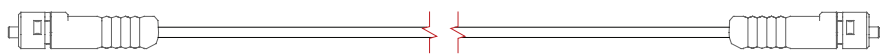
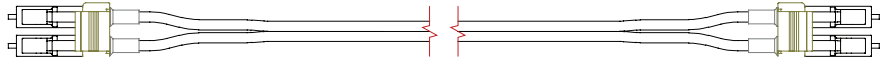
Duplex Crimped Latching Plugs
Gray, FD-xxx-SDB



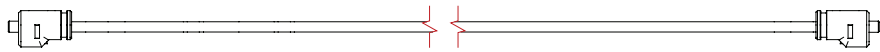
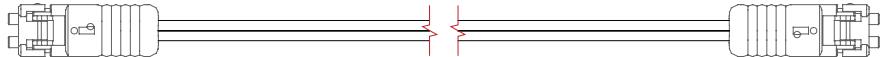
Duplex Crimped Friction Plugs
Cream, FD-xxx-RDB



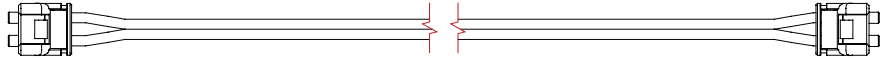
Duplex LC Plugs
FD-xxx-LDB



Duplex SMI Long Body Plugs.
FD-xxx-3DB



Duplex SMI Short Body Plugs.
FD-xxx-2DB



Firecomms xxx Code

xxC
xxM

Length

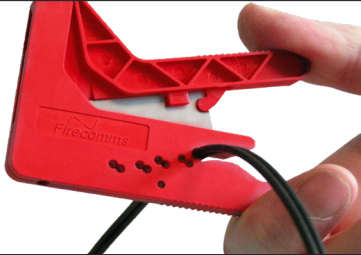
xx cm patch cord (Max 99 cm)
xx m patch cord (Max 50 m)

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

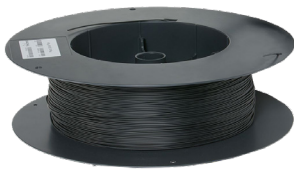
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Accessories

POF CUTTER	Part Number	Description
	PC220F-410	POF cutting/termination tool
OPTOLOCK BULKHEAD ADAPTOR	Part Number	Description
	FA-BFC-KXD	Bulkhead feedthrough adaptor, Optolock®
LC PANEL MOUNTED ADAPTOR	Part Number	Description
	FP-00C-LX0	LC panel mounted adaptor
SMI PASSIVE INTERCONNECT	Part Number	Description
	FA-BFG-SPD	SMI Passive Interconnect for 2 x SMI plugs
SMI SHORT BODY RELEASE TOOL	Part Number	Description
	FA-CRT-SSU	SMI Short body Plug/Connector Release Tool

Plastic Optical Fiber

POF	Part Number	Description
	FC-100-OSB	100 m Reel 0.5NA SI-POF 2.2 mm simplex
	FC-100-0DB	100 m Reel 0.5NA SI-POF 2.2 mm duplex
	FC-500-OSB	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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