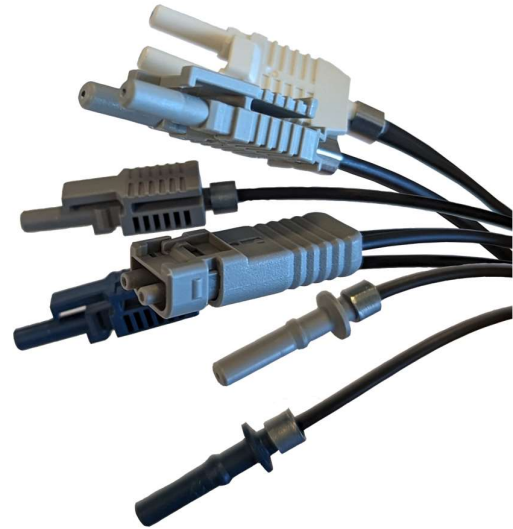# Cable Assemblies

Datasheet

DESCRIPTION

Firecomms Cable assemblies are available in a convenient range of lengths for use with RedLink® or Versatile Link transmitters and receivers. We also offer plugs and cable assemblies for our LC style connectors and for our SMI style connectors.

APPLICATIONS

- Control links within high voltage electrical control equipment.
- Data communication where extreme immunity to EMI is required (EMI/EMC immunity).
- Links between equipment that requires electrical isolation to be maintained.
- Rugged links in hostile environments
- Cable assemblies provide flexible solutions for industry, transport, medical, renewable energy, power transmission. automation, robotics, control drives and others.

FEATURES

- Cost-effective, rugged optical links
- Customised lengths
- Options for latching and non-latching interfaces
- Cable assemblies available in a variety of convenient standard lengths
- Compatible with Versatile Link connectors and fiber optic transmitter and receivers

SPECIFICATIONS

Cable Assembly Specifications

Parameter	Symbol	Min	Typical	Max	Unit
Storage Temperature	T_{stg}	-40		+85	°C
Operating Temperature	T_{op}	-40		+85	°C
Installation Temperature	T_I	0		+70	°C
Durability, Mating Cycles		500*			

Applicable to all except SMI Short Body Plug and SMI Long Body Plug cable assemblies

Ordering Information

Part Number	Name	Description
FD-xxx-BSB	RedLink Simplex Cable Assembly, Crimped Friction Plugs	xxx m RedLink simplex patch cable with friction plug 0.5NA SI-POF (Grey and Blue Crimped Plugs)
FD-xxx-QSB	RedLink Sealed Simplex Cable Assembly, Crimped Friction Plugs	xxx m RedLink simplex patch cable with sealed friction plug 0.5NA SI-POF (Grey and Blue Crimped Plugs)
FD-xxx-ASB	RedLink Simplex Cable Assembly, Crimpless Friction Plugs	xxx m RedLink simplex patch cable with friction plug 0.5NA SI-POF (Grey and Blue Crimpless Plugs)
FD-xxx-PSB	RedLink Simplex Cable Assembly, Crimpless Friction Plugs	xxx m RedLink simplex patch cable with friction plug 0.5NA SI-POF (Grey and Black Crimpless Plugs)
FD-xxx-CSB	RedLink Simplex Cable Assembly, Crimped Latching Plugs	xxx m RedLink simplex patch cable with latch plug 0.5NA SI-POF (Grey and Blue Crimped Plugs)
FD-xxx-NDB	RedLink Duplex Cable Assembly, Crimpless Simplex Friction Plugs	xxx m RedLink duplex patch cable with interlocking simplex friction plugs 0.5NA SI-POF (Grey Crimpless Plugs)
FD-xxx-ADB	RedLink Duplex Cable Assembly, Crimpless Friction Plugs	xxx m RedLink duplex patch cable with friction plug 0.5NA SI-POF (Grey and Blue Crimpless Plugs)
FD-xxx-PDB	RedLink Duplex Cable Assembly, Crimpless Friction Plugs	xxx m RedLink duplex patch cable with friction plug 0.5NA SI-POF (Grey and Black Crimpless Plugs)
FD-xxx-SDB	RedLink Duplex Cable Assembly, Crimped Latching Plugs	xxx m RedLink duplex patch cable with duplex latch plug 0.5NA SI-POF (Grey Crimped Plugs)
FD-xxx-RDB	RedLink Duplex Cable Assembly, Crimped Friction Plugs	xxx m RedLink duplex patch cable with duplex friction plug 0.5NA SI-POF (Cream Crimped Plugs)
FD-xxx-LDB	LC Duplex Cable Assembly	xxx m LC duplex cable assembly 0.5NA SI-POF
FD-xxx-3DB	SMI Long Body Duplex Cable Assembly	xxx m SMI Long Body plug with duplex POF assembly
FD-xxx-2DB	SMI Short Body Duplex Cable Assembly	xxx m SMI Short Body plug with duplex POF assembly

The sequence -xxx in each part number should be replaced by one of the following to indicate the required length:

Part Number Length Code

Code	Length	Max Length
xxC	xx cm Cable Assembly	99 cm
xxM	xx m Cable Assembly	50 m

NOTE: For example
A 30 cm cable assembly would have the code 30C
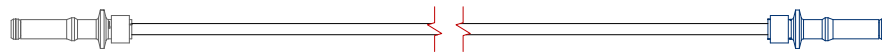A 5 m cable assembly would have the code 05M

Cable Assembly Tolerance

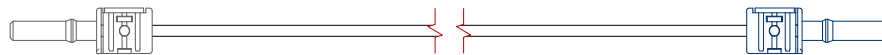| L (Cable Length)	Tolerance
L ≤ 1 meter	-0 / +10 %
L > 1 meter	-0 / +10 cm

NOTE: For example
A 30 cm cable assembly would have a minimum tolerance of 30 cm and a maximum of 33 cm

A 5 m cable assembly would have a minimum tolerance of 5 m and a maximum of 5.1 m
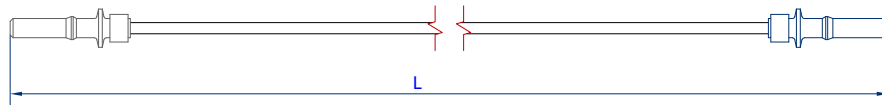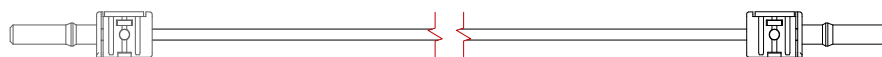
Simplex Crimped Friction Plugs
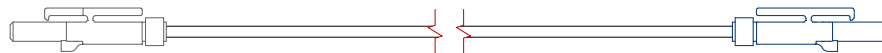Grey & Blue. FD-xxx-BSB

Simplex Sealed Crimped Friction Plugs
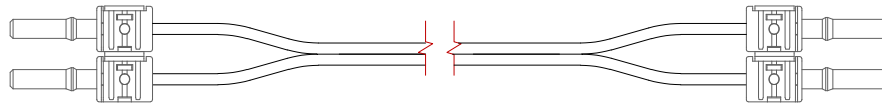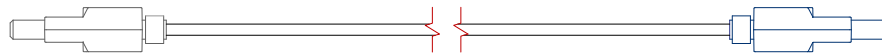Grey & Blue. FD-xxx-QSB

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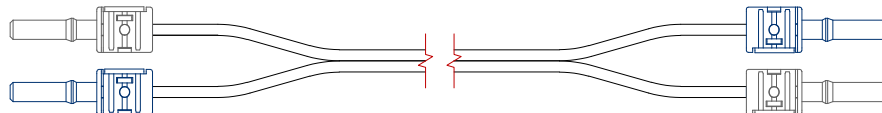Grey & Blue. FD-xxx-ASB

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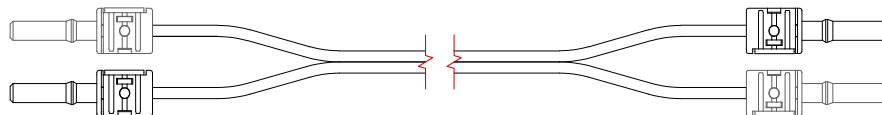Grey & Black. FD-xxx-PSB

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

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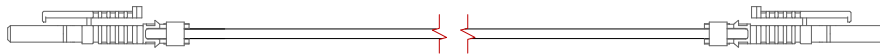Crimpless Friction Plugs.
Grey. FD-xxx-NDB

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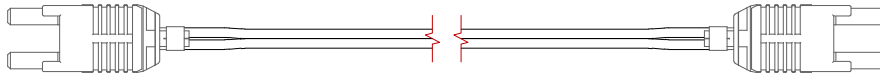Friction Plugs.
Grey & Blue. FD-xxx-ADB

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

FIGURE 1
Firecomms Cable Assemblies – Part 1

Duplex Crimped Latching Plugs.
Grey. FD-xxx-SDB

Duplex Crimped Friction Plugs
Cream. FD-xxx-RDB

Duplex LC Plugs
FD-xxx-LDB
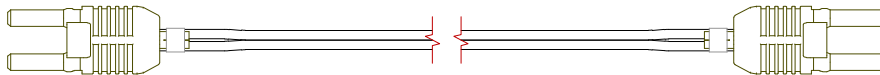
Duplex SMI Long Body Plugs.
FD-xxx-3DB
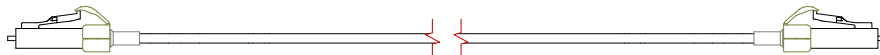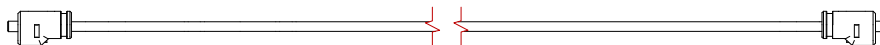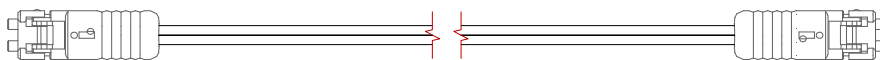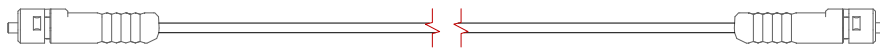
Duplex SMI Short Body Plugs.
FD-xxx-2DB
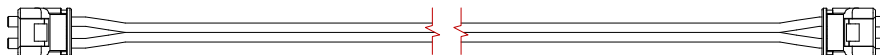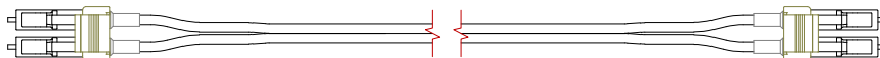
FIGURE 2
Firecomms Cable Assemblies – Part 2