Fiber Channel (FC) or FCN Cables

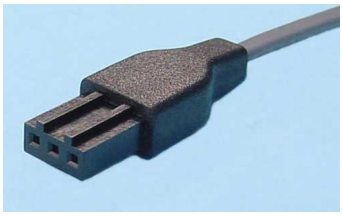
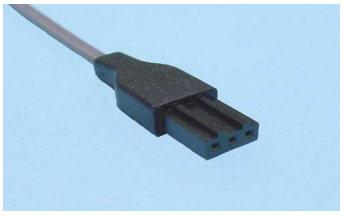
This article provides a knowledge base to off-the-shelf FC cable assembly vendors and FC cable products and building techniques

Off The Shelf Cable Assembly Solutions

List of Vendors

1. **CS Electronics**

   17500 Gillette Ave.
   Irvine, California 92614
   (949) 475-9100
   FAX: (949) 475-9119
   www.cselex.com

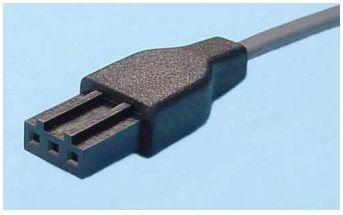
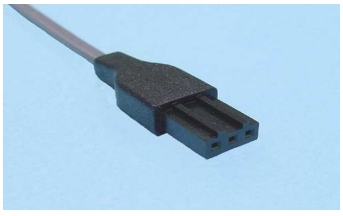



P/N: 3-Pin PTP Internal Cable

2. **Sierra Technologies, LLC**

   Phone: 813-929-9125 or 410-569-7151
   Fax: 813-929-9076

   www.sierra-cables.com

P/N: Pont-To-Point (PTP)

Materials To Build Your Own Cable

Twinax Cable

Description: Minimum 24AWG, 2 Conductor, TSP (Twisted shielded Pair), 100-150 ohm.

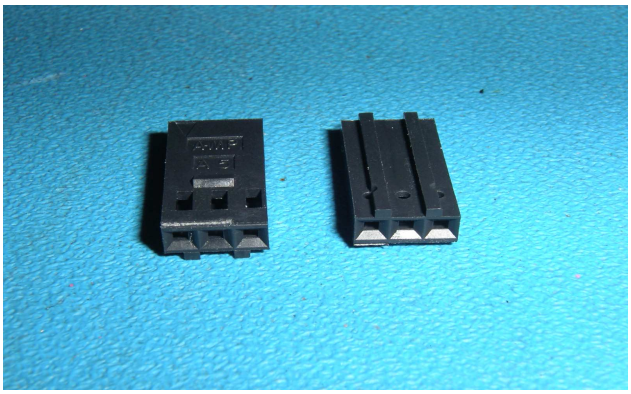
Recommendations:
Pic Wire P/N E10224 for single pair and E10424 for double pair.
or
Item # 919-28XV, LTE high-speed twinaxial cables - 100 ohm parallel and twisted pair

TSP Cable

3-Pin FC Connector Housing

Description: 3-Pin Connector Housing (mates to GRT FCN connectors)
Amp Part Number: 102241-1
www.amp.com

Digikey Part Number: A26982-ND
www.digikey.com



3-Pin Connector Housing

Contact for 3-Pin Housing

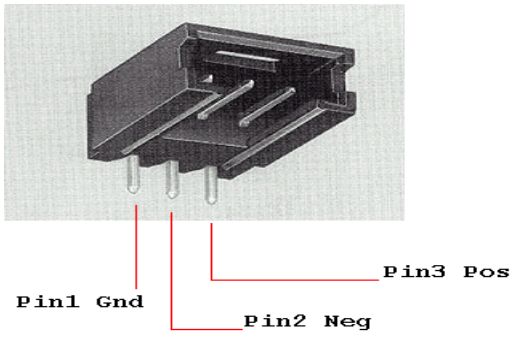
Description: Contact, 20-24GA wire, High Pressure
Amp Part Number: 1-87399-4
www.amp.com

Digikey Part Number : A3008-ND
www.digikey.com

20-24 AWG Contact

How To Build Your Point-To-Point Cable

When building the cable harness it is necessary to note the pin out on the GRT FCN style connector. The pin out and signal description for each the 3 pins is noted in the figure below.



GRT FCN Connector

(Front View)

The GRT FCN Connector and the 3-Pin Connector Housing are keyed so that Pin1 (GND) and Pin3 (Pos) can never be swapped. When building the cable ensure that Pin1 (GND) connects to Pin1 (GND) at the other end and like wise for Pin2 and Pin3. Reversing the polarity may give mixed results, so please PAY ATTENTION.

The Twinax (TSP) cable shall be connected to the Connector Housing in the following manner:

Twinax (TSP)	Connector Housing
Shield	Pin1 (Gnd)
White	Pin2 (Neg)
Blue/White	Pin3 (Pos)