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Great River Technology, Inc.

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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
- **Materials To Build a Twinax cable**
 - Twinax Cable
 - 3-Pin FC Connector Housing
 - Contact for 3-Pin Housing
- **How To Build Your Point-To-Point Cable**

Fiber Channel (FC) Cables

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 A TWINAX CABLE

Twinax Cable

Description: 24AWG, 2 Conductor, TSP, 100 ohm

Mil Spec: MIL-W-22759

Dearborn Part Number: 24RC2S06

www.dearborn.com

Newark Part Number: 91F7332

www.newark.com



Twinax 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

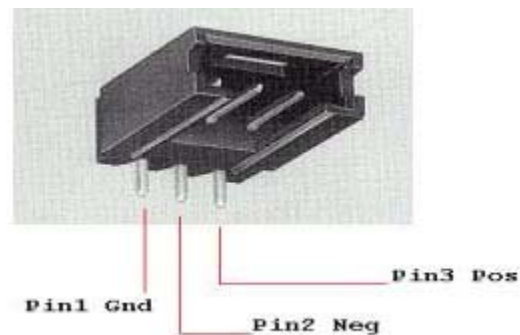
Digikey Part Number: A3008-ND
www.digikey.com



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)

***NOTE - this FCN connector diagram is pinned out for FibreV, Gravity, EFC and FCAV products NOT GHG ***

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.

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

Twinax Connector Housing

Shield ----- Pin1 (Gnd)
White ----- Pin2 (Neg)
Blue/White ----- Pin3 (Pos)

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