

WHOI-231018B Cable Assembly. Bill of Materials (per cable assembly):

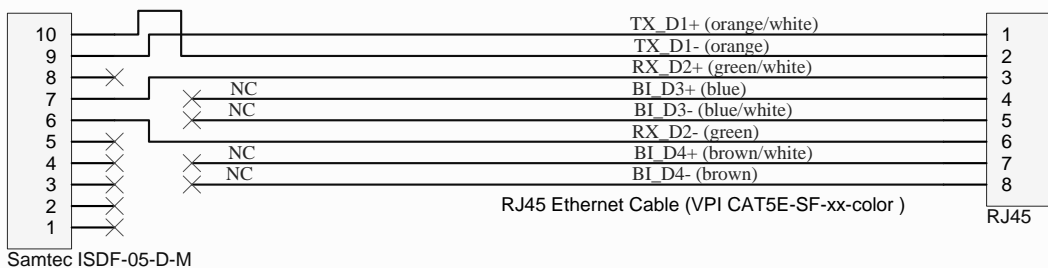
BOM Line 1: quantity 1, Samtec ISDF-05-D-M connector
BOM Line 2: quantity 4, Samtec CC03M-2830-01-G contacts
BOM Line 3: quantity 1, VPI CAT5E-SF-xx-color Ethernet cable (stranded 28AWG, http://www.vpi.us/cable-sf.html , xx=length in feet, color=cable color)

Final assembled cable length to be approximately 1.5" shorter than original length of VPI CAT5E-SF-xx-color cable.
Length tolerance on overall cable assembly is +/- 1".

Assembly Steps:

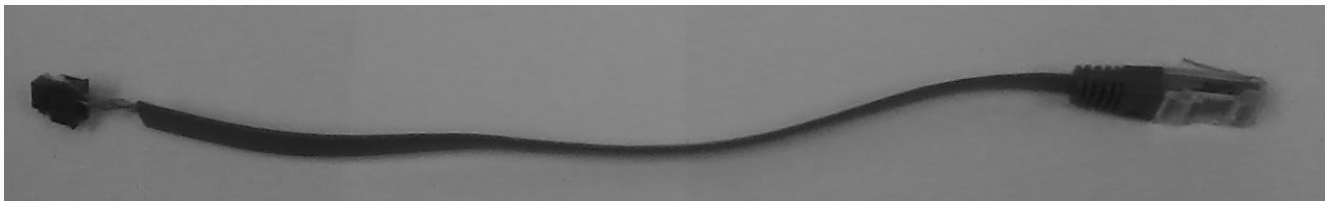
- 1.) Cut off one end of VPI Ethernet cable at the strain-relief boot.
- 2.) Strip off Ethernet cable jacket to expose approximately 0.5" of orangewhite/orange and greenwhite/green twisted pairs.
- 3.) Cut off unused twisted pairs (bluewhite/blue and brownwhite/brown) flush with remaining Ethernet cable jacket.
- 4.) Crimp four contacts onto orangewhite/orange and greenwhite/green twisted pairs.
- 5.) Insert contacts into Samtec ISDF-05-D-M as shown below:

orange/white: ISDF-05-D-M pin 9
orange: ISDF-05-D-M pin 10
green/white: ISDF-05-D-M pin 7
green: ISDF-05-D-M pin 6



Use Samtec CC03L-2830-01-G Contacts (CC03M,CC03R acceptable)
Crimper: CAT-HT-203-2832-11 (or other crimper as appropriate)

Example Photo (VPI CAT5E-SF-1-BLUE shown):



Cable also can be used with WHOI-205103 Precision Time and Position Board
Note: Ethernet wire color standard for TIA/EIA 568B (not 568A, which has different color standard)

Cage Code:
88846

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9/26/2014

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Title:
WHOI-205049 Gumstix Overo Interface Board Ethernet Cable

Drawing Number: **231018-SCH** Rev: **B**