

Octax®-Adapter Octax to Quadrax Adapter Assembly

ULTRA HIGH-SPEED INTERCONNECT SOLUTIONS



Octax Adapter cable assembly



Octax Adapter cable; Quadrax contact

Many systems already exist that use Quadrax at the board level. When high-speed data was new to the aerospace marketplace, Quadrax gained spec position on many systems at the board level and became the industry standard. The Octax® Adapter bridges the technology between Quadrax and the Octax 10 Gbps Ethernet connector system utilizing an over-molded strain relief.

The Octax connector:

- » Uses innovative inserts to isolate each twisted pair and contact
- » Cable pair twist is maintained extremely close to the contact termination to minimize characteristic impedance mismatch
- » Virtually eliminates near-end crosstalk by having inserts designed to serve as isolated cells
- » Can deliver 10x the data transmission speed (10 Gbps signal or higher) and 2x the density compared to Quadrax-type solutions



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FEATURES & BENEFITS

Features:	Benefits:
Amphenol CIT's high-speed backbone allows longer runs, with more disconnects and improved data rates.	<ul style="list-style-type: none"> • Building in system headroom
High-speed backbone	<ul style="list-style-type: none"> • Longer runs • More disconnects • Improved data rates • Building in system headroom • Only requires a board-level change to deliver 10g • System flexibility for future upgrades • Field-repairable (Simply change the card to interface to Octax-Solo and extend the 10g backbone to the box. No removal/replacement of the installed backbone required.)
Octax technology in the disconnects	<ul style="list-style-type: none"> • Field-terminable & reworkable interconnections • Flexibility of disconnect locations • Fully-customizable adapter design (Cable type & Quadrax type)



Cable ID: OCTAX-ADP-10

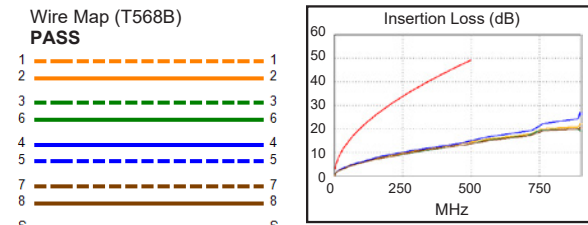
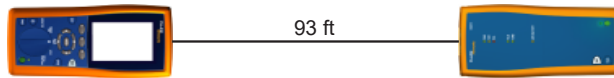
Date / Time: 06/28/2018 04:41:51 PM
 Headroom 6.8 dB (NEXT 36-45)
 Test Limit: TIA Cat 6A Channel
 Cable Type: Cat 6 U/UTP
 NVP: 68.2%

Operator: -
 Software Version: 2.7800
 Limits Version: 1.9500
 Calibration Date:
 Main (Tester): 09/24/2009
 Remote (Tester): 09/24/2009

Test Summary: PASS

Model: DTX-1800
 Main S/N: 1085047
 Remote S/N: 1085048
 Main Adapter: DTX-CHA001
 Remote Adapter: DTX-CHA001

Length (ft), Limit 328	[Pair 78]	93
Prop. Delay (ns), Limit 555	[Pair 45]	149
Delay Skew (ns), Limit 50	[Pair 45]	10
Resistance (ohms)	[Pair 12]	5.6
Insertion Loss Margin (dB)	[Pair 45]	33.9
Frequency (MHz)	[Pair 45]	493.0
Limit (dB)	[Pair 45]	48.9



Worst Case Margin Worst Case Value

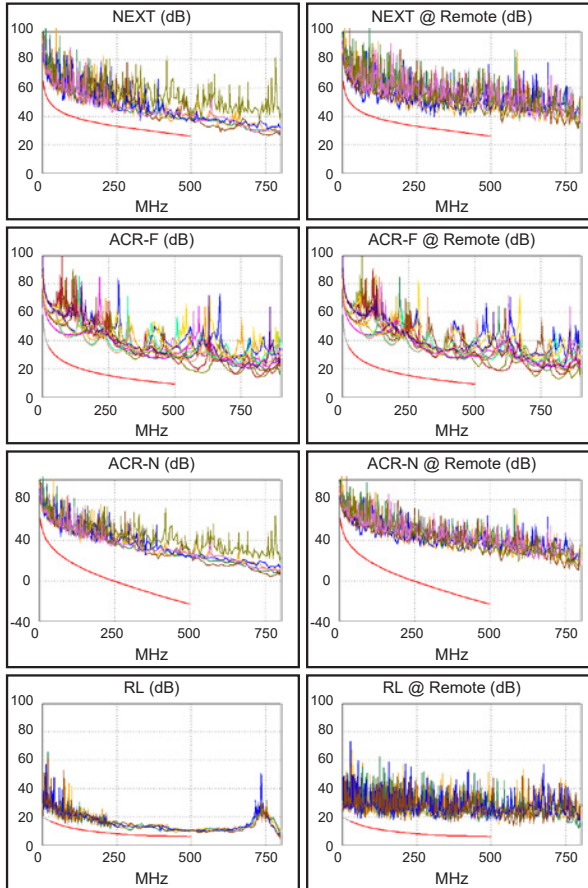
PASS	MAIN	SR	MAIN	SR
Worst Pair	36-45	12-78	36-45	36-78
NEXT (dB)	6.8	7.3	6.8	12.5
Freq. (MHz)	395.0	68.8	395.0	475.0
Limit (dB)	28.9	42.7	28.9	26.7
Worst Pair	36	78	45	36
PS NEXT (dB)	7.8	9.4	9.3	13.9
Freq. (MHz)	392.0	68.8	500.0	475.0
Limit (dB)	26.0	39.9	23.2	23.8

PASS	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	36-45	36-45
ACR-F (dB)	13.8	13.8	13.8	16.0
Freq. (MHz)	348.0	359.0	348.0	493.0
Limit (dB)	12.4	12.2	12.4	9.4
Worst Pair	45	45	45	36
PS ACR-F (dB)	14.8	15.2	17.2	15.3
Freq. (MHz)	348.0	359.0	476.0	369.0
Limit (dB)	9.4	9.2	6.7	8.9

N/A	MAIN	SR	MAIN	SR
Worst Pair	12-78	12-36	12-45	36-45
ACR-N (dB)	17.5	16.7	44.4	48.1
Freq. (MHz)	3.1	4.1	500.0	500.0
Limit (dB)	61.1	58.6	-23.2	-23.2
Worst Pair	36	12	45	36
PS ACR-N (dB)	18.1	16.9	43.7	48.8
Freq. (MHz)	10.0	4.1	500.0	475.0
Limit (dB)	47.5	56.1	-26.1	-24.1

PASS	MAIN	SR	MAIN	SR
Worst Pair	36	45	36	78
RL (dB)	2.3	7.0	2.3	9.3
Freq. (MHz)	480.0	51.5	480.0	342.0
Limit (dB)	6.0	14.9	6.0	6.7

Compliant Network Standards:
 10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 10GBASE-T ATM-25
 ATM-51 ATM-155 100VG-AnyLan
 TR-4 TR-16 Active TR-16 Passive



Project: New Project

OCTAX-ADP-10_7-23-18.fw



LinkWare™ PC Version 9.9