

OCTOBYTE EAST AND RUGGED 4/8 POLE INTERCONNEC

FAST AND RUGGED 4/8 POLE INTERCONNECT SYSTEM FOR ETHERNET DATA APPLICATIONS

OCTOBER 2013



4/8 Pole Interconnect System for Ethernet Data Applications

Glenair series ITH connector with Octobyte[™] contacts is available with fully dedicated ETHERNET protocol or in a combo version where a mix of signal-power and Ethernet is required. RoHS compliant, IP67 (IP68 on request) exceeds performance expectations typical in harsh environmental applications found throughout rail and industrial markets. OCTOBYTE[™] contacts are vibration resistant and designed to work with ETHERNET cables from CAT 5 to CAT 7A, MVB-WTB, RG58 Coax.

ITH connectors with OCTOBYTE[™] contacts are easy and fast to assemble, making them the best solution for



Commuter Train Applications



Passenger Information Systems

harsh environmental applications where signal reliability is a must:

- Communter rail
- Passenger information systems (audio/video/digital displays)
- Monitoring and control (braking/doors/lighting/data)
- Heavy industry
- Data control
- Safety systems

Tested in accordance with: ISO F0 STP: CAT 7A EN50173-1 F600-STP: CAT 7 EN50173-1 D STP: CAT 5E

Tested for compliance according to EN50173-1 standards set for CAT5E and CAT7. Testing was conducted using 12 jumpers, each 7.5 meters in length for a total of 90 meters.



ETHERNET CAT 7A contacts

Data Transmission Ethernet Contacts for:

- » ETHERNET CAT 6A
- » ETHERNET CAT 7
- » ETHERNET CAT 7A

Featuring:

- » Internal crimpable contacts
- » Inspectable contact
- » Integrated cable clamp
- » Low mating force

Technical Characteristics:

- » Current rating: 5A max
- » Voltage drop (at 5A and 25°C): 70mV max

Materials and Finish:

» Copper alloy and gold plating

Inserts:

» Thermoplastic resin

Contact Bucket Detail

Wire Size : AWG 22 - AWG 28



Table I			
Wire Size Type	Cable O.D. Range		
A	6-7		
В	7-8		
C	8-9		

Table II			
Colour Code	Colour		
Omitted For Standard			
G14	Black		
G14GN	Green		
G14GY	Grey		
G14R	Red		
G14Y	Yellow		











ETHERNET CAT 5 CONTACTS

Data Trasmission Contacts for:

- » ETHERNET CAT 5
- » ETHERNET CAT 5E
- » ETHERNET CAT 6
- » ETHERNET CAT 6A

Featuring:

- » Internal crimpable contacts
- » Inspectable contact
- » Integrated cable clamp
- » Low mating force

Technical Characteristics:

- » Current rating: 5A max
- » Voltage drop (at 5A and 25°C): 70mV max

Materials and Finish:

» - Copper alloy and gold plating

Inserts:

Thermoplastic resin
UL94V0-NFF16-102 12F3 Exigence 3

Contact Bucket Detail

Wire Size: AWG 22 - AWG 28



Table 1		
Wire Size Type	Cable O.D. Range	
А	6 - 7	
В	7 - 8	
С	8 - 9	



COAX CONTACTS

Data Trasmission Contacts for:

» RG58

- Featuring:
- » Internal solder contacts
- » Inspectable contact
- » Integrated cable clamp
- » Low mating force

Technical Characteristics:

- » Current rating: 5A max
- » Voltage drop (at 5A and 25°C): 70mV max

Materials and Finish:

» Copper alloy and gold plating

Inserts:

» P.T.F.E.

Crimp the ferrule on the braid using the following tools:

- Crimping tool: Die Assy for RG58: Die asy for RG59 Die asy for RG142 Die asy for RG174 Die asy for RG179 Die asy for RG223
- M22520 / 5-01 M22520 / 5-05A M22520 / 5-45 B M22520 / 5-45 A M22520 / 5-08 A M22520 / 5-08 A M22520 / 5-45 A

For COAX assembly instructions visit:

http://www.glenair.com/interconnects/commital/its/pdf/ contacts_and_tools_cc_700xx.pdfcontacts_and_tools_ cc_700xx.pdf









ETHERNET MVB - WBT contacts

Data Trasmission Contacts for:

- » MVB Multifunctional Vehicle Bus
- » WTB Wired Train Bus

Featuring:

- » Internal crimpable contacts
- » Inspectable contact
- » Integrated cable clamp
- » Low mating force

Technical Characteristics:

- » Current rating: 5A max
- » Voltage drop (at 5A and 25°C): 70mV max

Materials and Finish:

» Copper alloy and gold plating

Inserts:

» Thermoplastic resin UL94V0-NFF16-12 12F3 Exigence 3



CONTACT BUCKET DETAIL

WIRE SIZE : AWG 18 - AWG 22



Table I			
Wire Size Type	Cable O.D. Range		
А	6 - 7		
В	7-8		
С	8 - 9		

Insertion, Extraction and Crimping Tools





Dut of This World INTERCONNECT SOLUTIONS

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