

MIL-DTL-38999 Series III Type Environmental Connectors

El Ochito® octaxial “White,” “Blue,” and “Red” contact specifications

Ochito “White”



1000BASE-T/10GBASE-T

El Ochito® “White” octaxial contacts provide 10 Gigabit Ethernet in the same size as 100BASE-T Quadrx contact

- -65°C to +175°C
- 100 ohms
- 24 and 26 AWG
- Type I and Type II

Ochito “Blue”



SuperSpeed USB

Low-dielectric material. Up to 5 Gbps. 90 ohms. El Ochito® “Blue” octaxial contacts provide an aerospace-grade solution for SuperSpeed USB.

- -65°C to +125°C
- 90 ohms
- Type I only

Ochito “Red”



HDMI, Displayport, SATA

Low-dielectric material. Up to 5 Gbps. 100 ohms. El Ochito® “Red” octaxial contacts provide an aerospace-grade solution for multi-gigabit data rates.

- -65°C to +125°C
- 100 ohms
- 26 AWG
- Type I only

Specifications

Specifications

- **Operating temperature:**
El Ochito® White: -65° to +175°C
El Ochito® Blue: -65° to +125°C
El Ochito® Red: -65° to +125°C
- **Impedance:**
El Ochito® White: 100 ohms
El Ochito® Blue: 90 ohms
El Ochito® Red: 100 ohms
- **DWV:** 500 Vrms
- **Current Rating:** 1.5 A
- **IR:** 5000 megohms min.
- **Durability:** 500 mating cycles
- **Vibration:** MIL-DTL-38999 Series III
- **Shock:** MIL-DTL-38999 Series III

Construction

- **Inner contacts, outer contact, ferrules, retaining nut:** copper alloy, 50 microinches gold over nickel plating
- **Insulators:**
El Ochito® White: PPS, natural color
El Ochito® Blue: low-dielectric constant thermoplastic, blue
El Ochito® Red: low-dielectric constant thermoplastic, red
- **O-ring:** fluorosilicone
- **Heatshrink tubing:** PVDF
- **Contact release sleeve:** stainless steel, passivated
- **Sealing boot grommet:** fluorosilicone
- **Sealing boot body:** rigid thermoplastic, PEI or equivalent
- **Spline, El Ochito® White:** copper alloy, nickel plating
- **Spline, El Ochito® Red and Blue:** Polyimide

Contacts, Cable Options, and Protocols

Wire Size	Cable Type	Cable		Type I Ochito		Type II Ochito	
		Glenair Part No. (Mfgr. P/N)	Cable Dia.	Pin Contact Assembly Instr.	Skt Contact Assembly Instr.	Pin Contact Assembly Instr.	Skt Contact Assembly Instr.
		1000BASE-T, 10GBASE-T; el Ochito “White”					
24	S/UTP	963-037-24 (PIC E6A3824)	.260 (6.60)	--	--	858-005-03B AI85097-03	858-006-03B AI85097-03
	S/FTP	963-033-24 (Gore RCN9047-24)	.260 (6.60)	--	--	858-005-04B AI85097-04	858-006-04B AI85097-04
26	S/UTP	963-003-26 (PIC E6A3826)	.220 (5.56)	858-003-01F AI85048-01	858-004-01F AI85048-01	858-005-01B AI85097-01	858-006-01B AI85097-01
	S/FTP	963-033-26 (Gore RCN9047-26)	.220 (5.56)	858-003-02F AI85048-02	858-004-02F AI85048-02	858-005-02B AI85097-01	858-006-02B AI85097-01
SuperSpeed USB; el Ochito “Blue”							
26	USB 3.0	963-118	.217 (5.51)	858-028-01F AI85114-02	858-029-01F AI85114-02	858-069-01B AI85158-01	858-070-01B AI85158-01
	USB 3.0	963-110	.236 (5.99)	858-028-02F AI85090-01	858-029-02F AI85090-01	858-069-02B AI85158-02	858-070-02B AI85158-02
HDMI, Displayport and SATA; el Ochito “Red”							
26	Cat 6a S/FTP	963-033-26 (Gore RCN9047-26)	.220 (5.56)	858-030-02F AI85048-02	858-031-02F AI85048-02	858-063-01B AI85149-02	858-064-01B AI85149-02
24	Cat 6a S/FTP	963-033-24	.217 (5.51)	--	--	858-063-02B AI85149-04	858-064-02B AI85149-04