



# El Ochito®24: The Ultimate High-Speed Contact

Superior size/weight reduction and signal integrity for the 10G Ethernet datalink protocol—optimized for rugged #24 AWG wire

**E**l Ochito®24 contact modules are intended for harsh environment military and aerospace data networks utilizing popular high-speed Ethernet protocols. El Ochito®24 contact modules provide up to 50% total weight savings compared to quadrax contact solutions. El Ochito®24 contact modules are equipped with eight crimp-termination signal pins in a machined, gold plated outer housing. A patented metal spline isolates data pairs for improved signal integrity in controlled-impedance data applications. Optimized for use with aerospace-grade 24 AWG cables with unshielded or shielded data pairs. El Ochito®24 contacts snap into Series 80 Mighty Mouse and Series 23 SuperNine® connectors with keyed quadrax inserts. Supplied as an unassembled kit with outer body, (8) inner contacts, cable shield retaining nut, contact isolator sub-assembly, and termination instruction sheet. Factory-terminated jumpers also available.



Pin Contact



Socket Contact

- For rugged mil-aero grade #24 AWG wire
- DC – 4 GHz frequency range
- 100 ohms
- Data pair isolation technology
- 50% size and weight savings compared to quadrax contacts
- Snap-in, rear release
- Integrated removal tool
- Gold plated copper alloy
- 10GBase-T compatible

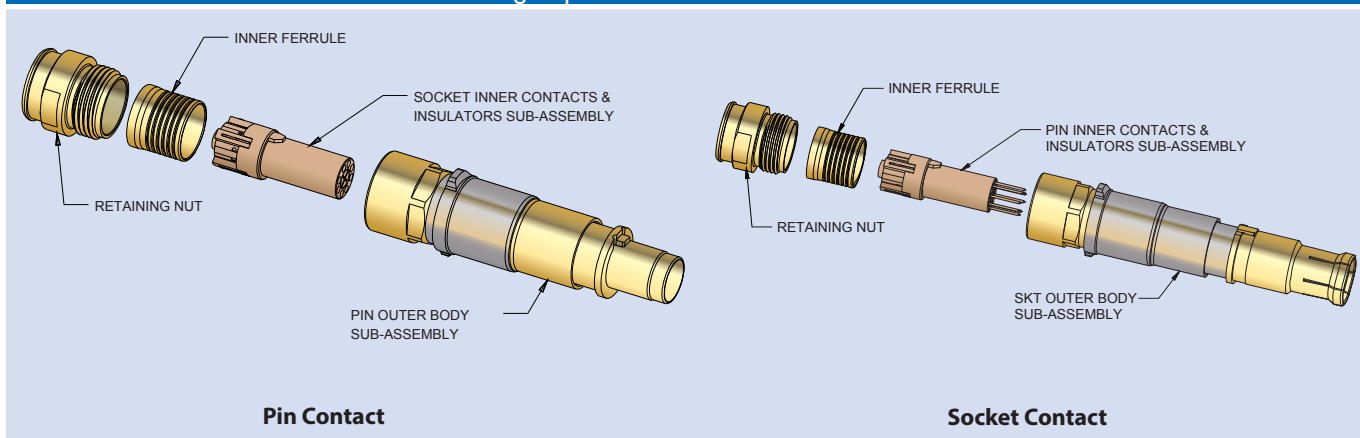
| Technical Data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                  |
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| Specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Construction                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>■ Operating temperature: -65°C. to +175°C.</li> <li>■ Operating frequency: DC – 4 GHz</li> <li>■ Characteristic Impedance: 100 ohms</li> <li>■ Dielectric withstanding voltage, inner to inner contact: 1000 Vrms sea level, 250 Vrms 70,000 feet.</li> <li>■ Dielectric withstanding voltage, inner to outer contact: 500 Vrms sea level, 250 Vrms 70,000 feet.</li> <li>■ Insulation resistance: 5000 megohms min.</li> <li>■ Durability: 500 mating cycles</li> <li>■ Vibration: MIL-DTL-38999 Series III</li> <li>■ Shock: MIL-DTL-38999 Series III</li> </ul> | <ul style="list-style-type: none"> <li>■ Inner contacts, outer contact, shield crimp ferrule: copper alloy, 50 microinches gold over nickel plating</li> <li>■ Front, middle and rear insulator: PPS</li> <li>■ Shrink tube: M23053/8</li> </ul> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Connector Compatibility                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>■ El Ochito®24 contacts have an alignment key and are not suitable for use in non-keyed connectors</li> <li>■ Glenair Series 80 Mighty Mouse</li> <li>■ Glenair 233-217 SuperNine®</li> </ul>             |

# El Ochito®24: The Ultimate Shielded High-Speed Data Contact

# El Ochito®

for use in Mighty Mouse and SuperNine® series connectors

## El Ochito®24 High-Speed Octaxial Contact Construction Details



| How To Order       |          |                                                                         |                 |                |
|--------------------|----------|-------------------------------------------------------------------------|-----------------|----------------|
| Sample Part Number |          | 858-005                                                                 |                 | -01            |
| Basic Part Number  |          | 858-005 El Ochito 24 pin contact<br>858-006 El Ochito 24 socket contact |                 |                |
| Cable Dash No.     | Dash No. | Cables Accommodated                                                     | Ref. Cable O.D. | Assembly Inst. |
|                    | -01      | 963-003-26                                                              | .220            | AI85096        |
|                    | -02      | 963-033-26                                                              | .220            | AI85097        |
|                    | -03      | 963-003-24                                                              | .260            | AI85096        |
|                    | -04      | 963-033-24                                                              | .260            | AI85097        |
|                    | -05      | 963-038-24                                                              | .295            | AI85098        |

| Crimp Tools |                          |                    |                          |                          |
|-------------|--------------------------|--------------------|--------------------------|--------------------------|
| Contact PN  | Inner Contacts           |                    | Outer Body               |                          |
|             | Crimper                  | Positioner         | Crimper                  | Hex Die                  |
| 858-005     | 809-015<br>(M22520/2-01) | 859-101<br>(K1906) | 809-129<br>(M22520/5-01) | 859-007<br>(M22520/5-45) |
| 858-006     |                          |                    |                          |                          |

## Size #8 El Ochito® Contacts for Aerospace High Speed Ethernet Cable

| Connector Type                               | Cable Type | Cable Description                                | Cable             |                  | Pin Contact | Socket Contact |
|----------------------------------------------|------------|--------------------------------------------------|-------------------|------------------|-------------|----------------|
|                                              |            |                                                  | Mfgr. Part Number | Glenair Part No. |             |                |
| Series 80 Mighty Mouse<br>233-217 SuperNine® | S/UTP      | Unshielded twisted pairs, 26 AWG                 | PIC E6A3826       | 963-003-26       | 858-005-01  | 858-006-01     |
|                                              | S/FTP      | Foil shields on individual twisted pairs, 26 AWG | Gore RCN9047-26   | 963-033-26       | 858-005-02  | 858-006-02     |
|                                              | S/UTP      | Unshielded twisted pairs, 24 AWG                 | PIC E6A0824       | 963-003-24       | 858-005-03  | 858-006-03     |
|                                              | S/FTP      | Foil shields on individual twisted pairs, 24 AWG | Gore RCN9034-24   | 963-033-24       | 858-005-04  | 858-006-04     |
|                                              |            |                                                  |                   | 963-038-24       | 858-005-05  | 858-006-05     |