

“Better than QPL” MIL-DTL-38999
High-Speed Solution



SuperNine® high-speed connectors with special inserts to accommodate El Ochito® octaxial contacts

- **Tooled and ready-to-ship high-speed and hybrid insert arrangement connectors for size #8 El Ochito shielded contacts. Arrangements for #8, #12, and #16 Coax, Twinax, and Quadrax also available**
- **Supported applications: 10/100/1G/10G BASE-T Ethernet, HDMI, DisplayPort, SATA, USB 3.0 , 1553 databus and general RF or differential data transmission**

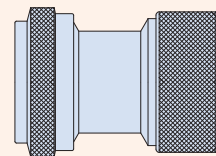
El Ochito®



EL OCHITO CONTACT REFERENCE GUIDE

Contact Type	White, Type I	White, Type II	Blue, Type I	Red, Type I
Pin	858-003	858-005	858-028	858-030-01
Socket	858-004	858-006	858-029	858-031

RECOMMENDED BACKSHELL



377HS121

Series 37 Aluminum Backshell for SuperNine plug and receptacle connectors. Straight, 45°, and 90° configurations available.

“BETTER THAN QPL”

High-Speed SuperNine® MIL-DTL-38999



with El Ochito® octaxial contacts

How To Order SuperNine® High-Speed Connectors with El Ochito contacts										
Sample Part Number	233-217									
Series / Basic Part No.	233-217 with Accessory Thread 233-224 Integral Banding Porch									
Connector Style	G6 Plug, EMI spring 05 in-line receptacle 07 jam-nut recpt. 00 wall mt. recpt., slotted holes CM wall mt. recpt., metric clinch nuts CS wall mt. recpt., std. clinch nuts DO wall mt. recpt., thru holes HM wall mt. recpt., metric helicoils HS wall mt. recpt., std. helicoils									
Material/Finish	NF = Cad/O.D. ME = Electroless Nickel MT = Nickel PTFE ZR = Black Zinc Nickel									
Shell Size	9, 11, 13, 17, 19, 21, 23, 25									
Ground Option	G = Common Ground - = None									
Insert Arrangement	See insert arrangement tables, next pages									
Insert Designator	A = Pin insert, less contacts B = Socket insert, less contacts									
Alternate Polarization*	A, B, C, D, E, N = Normal (IAW MIL-DTL-38999 Series III)									
Optional Mod Code	909XX = Supplies connector with contacts									

How To Order SuperNine® High-Speed Quick-Disconnect Connectors with El Ochito contacts										
Sample Part Number	233-260									
Series / Basic Part No.	233-260 High-Speed Quick Disconnect									
Connector Style	G6 = Quick Disconnect Plug									
Material/Finish	NF = Cad/O.D. ME = Electroless Nickel MT = Nickel PTFE ZR = Black Zinc Nickel Z1 = SST, Passivated									
Shell Size	9, 11, 17, 19, 21, 23, 25									
Ground Option	G = Common Ground - = None; See Note 8									
Insert Arrangement	See insert arrangement tables, next pages									
Lanyard Length Code	consult factory or SuperNine catalog									
Contact Style	A = Pin Less Contact B = Socket Less Contact									
Alternate Polarization*	A, B, C, D, E, N = Normal (IAW MIL-DTL-38999 Series III)									
Optional Mod Code	909ES = Connector with El Ochito Socket contacts 909EP Connector with El Ochito Pin contacts									

How To Order SuperNine® High-Speed PC-Tail Threaded Standoff Receptacles with El Ochito contacts										
Sample Part Number	233-218									
Series / Basic Part No.	High-Speed PC tail wall mount receptacles, threaded standoffs									
Connector Style	07 jam-nut 00 wall-mount, slotted holes CM wall mt., metric clinch nuts CS wall mt., std. clinch nuts HM wall mt., metric helicoils HS wall mt., std. helicoils									
Material/Finish	NF = Cad/O.D. ME = Electroless Nickel MT = Nickel PTFE ZR = Black Zinc Nickel									
Shell Size	9, 11, 13, 15, 17, 19, 21, 23, 25									
Contact Type	E = El Ochito ⁷									
Ground Option	G = Common Ground - = None									
Insert Arrangement	See insert arrangement tables, next pages									
Contact Style	P = Pin, PC Tail S = Socket, PC Tail									
Alternate Polarization*	A, B, C, D, E, N = Normal (IAW MIL-DTL-38999 Series III)									

How To Order SuperNine® High-Speed Wall Mount Receptacles with El Ochito contacts										
Sample Part Number	233-225									
Series / Basic Part	SuperNine® High-Speed, dual flange wall-mount receptacle									
Connector Style*	07 jam-nut 00 wall-mount, slotted holes/stand off, std. threads 10 Wall-mount, slotted holes/stand off, metric threads CM wall-mount, metric clinch nuts CS wall mount, std. clinch nuts HM wall mount, metric helicoils HS wall mount, std. helicoils									
Material/Finish	NF = Cad/O.D. ME = Electroless Nickel MT = Nickel PTFE ZR = Black Zinc Nickel									
Shell Size	9, 11, 13, 17, 19, 21, 23, 25									
Contact Type	E = El Ochito									
Ground Option	G = Common Ground - = None									
Insert Arrangement	Per MIL-STD-1560, see page C-5 and C-6									
Contact Style	P = Pin, PC Tail S = Socket, PC Tail									
Alternate Polarization*	A, B, C, D, E, N = Normal (IAW MIL-DTL-38999 Series III)									

SuperNine® High-speed connectors

High-speed size #8 and hybrid insert arrangements (note: size #8 cavities keyed for contact polarization)

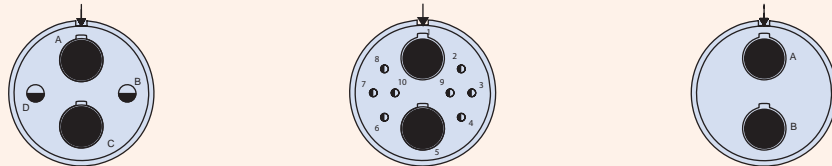
Contact Legend
 #23 ● #22D ○
 #16 ⊕ #20 ⊖
 #12 ◐ #8 ◑



Insert Arrangement	9G5*	11-1	13-14	17-2
No. of Contacts	1x #8	1x #8	1x #8 14x #23	1x #8 38x #22D

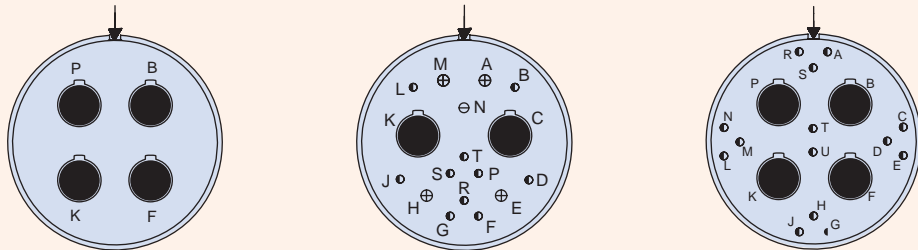
*Only available with ground plane option

Contact Legend
 #23 ● #22D ○
 #16 ⊕ #20 ⊖
 #12 ◐ #8 ◑



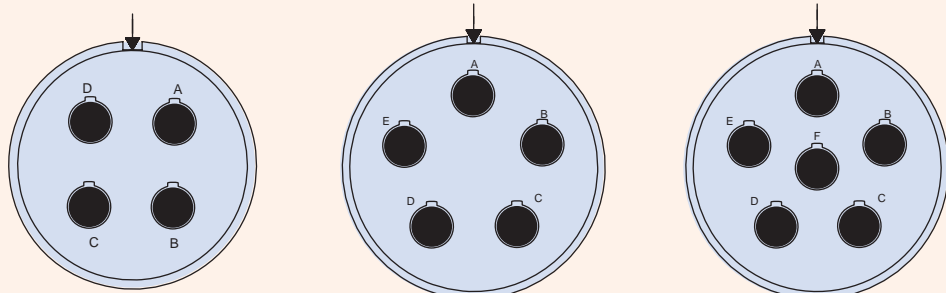
Insert Arrangement	17-22	17-60	17-75
No. of Contacts	2x #8 2x #12	2x #8 8x #22	2x #8

Contact Legend
 #23 ● #22D ○
 #16 ⊕ #20 ⊖
 #12 ◐ #8 ◑



Insert Arrangement	19-4	19-17	19-18
No. of Contacts	4x #8	2x #8 4x #16 1x #20 10x #22D	4x #8 14x #22D

Contact Legend
 #23 ● #22D ○
 #16 ⊕ #20 ⊖
 #12 ◐ #8 ◑



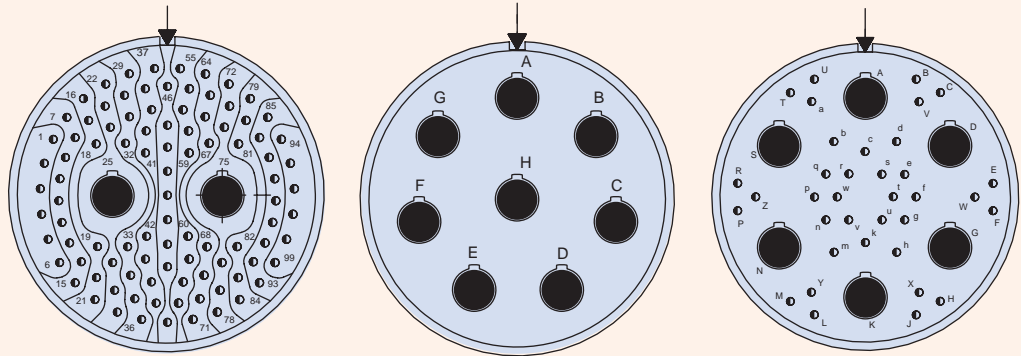
Insert Arrangement	21-75	23-5	23-6
No. of Contacts and Size	4x #8	5x #8	6x #8

SuperNine® High-speed connectors



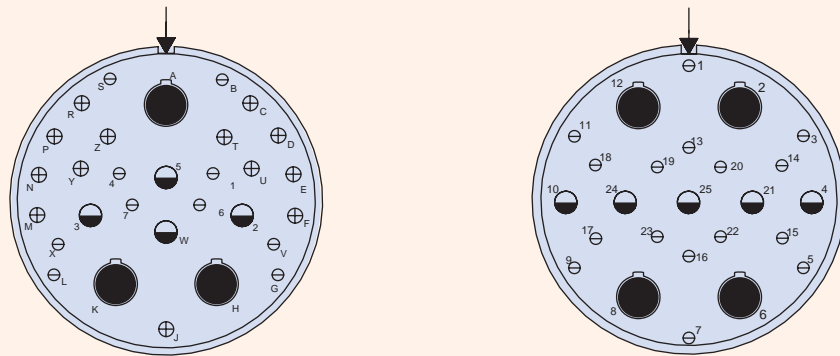
High-speed size #8 and hybrid insert arrangements
(note: size #8 cavities keyed for contact polarization)

Contact Legend
 #23 ● #22D ○
 #16 ⊕ #20 ⊖
 #12 ◐ #8 ◑



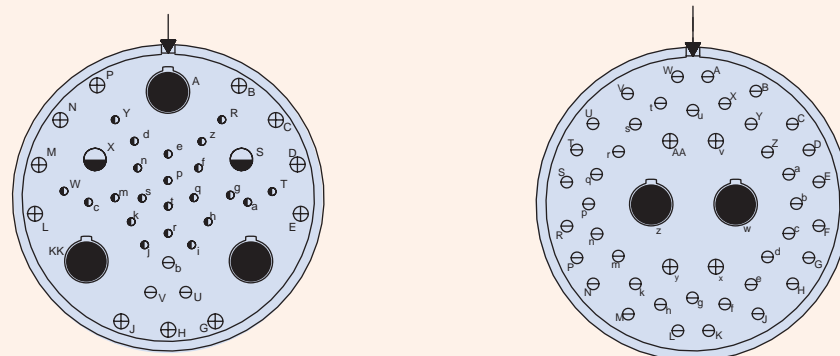
Insert Arrangement	25-7		25-8		25-17	
No. of Contacts and Size	2x #8	97x #22	8x #8	6x #8	36x #22	

Contact Legend
 #23 ● #22D ○
 #16 ⊕ #20 ⊖
 #12 ◐ #8 ◑



Insert Arrangement	25-20				25-26		
No. of Contacts and Size	3x #8	4x #12	13x #16	10x #20	4x #8	5x #12	16x #20

Contact Legend
 #23 ● #22D ○
 #16 ⊕ #20 ⊖
 #12 ◐ #8 ◑



Insert Arrangement	25-41					25-46		
No. of Contacts and Size	3x #8	2x #12	11x #16	3x #20	22x #22D	2x #8	4x #16	40x #20