

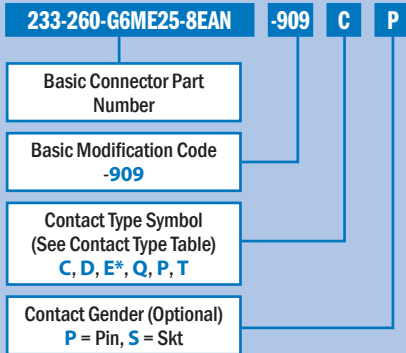
MIL-DTL-38999 Series III Type Environmental Connectors 233-260 QDC Plug with shielded crimp removable contacts

HIGH-SPEED CONNECTORS

Part Number Development	
Sample Part Number	233-260 -G6 ME 25 - 8 E A N -909CP
Series / Basic Part No.	233-260 High-Speed Quick Disconnect
Connector Style	-G6 = Quick Disconnect Plug
Material/Finish	NF = Aluminum/Cad. Olive Drab MT = Aluminum/Nickel PTFE ME = Aluminum/ Electroless Nickel Z1 = SST, Passivated
Shell Size	9, 11, 13, 17, 19, 21, 23, 25
Ground Option	G = Common Ground - = None; See Note 8
Insert Arrangement	Per MIL-STD-1560, See page C-5 and C-6
Lanyard Length	See Table I for Lanyard Length
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	909** = Supplies connector with contacts; See modification code example below for details.

*Refer to Section A for complete details

Modification code 909xx is used to supply D38999 Series III Type connectors featuring crimp removable type contacts with high-speed contact kits. Kits include spares, tools, and sealing plugs. See example below.



*For El Ochito see Table II, Contact Configuration Table on following page for appropriate code and dash number symbol.

Contact Type					
Sym	Description	Glenair P/N	Wire Type	Grommet Follower	Application Notes
C	Size 16, contact for coax cable, per M39029/76 & /77;	Pin: 852-008-16-424 Skt: 852-009-16-428	RG174, RG316, RG179	N/A	Analog radio frequency or microwave applications
	Size 12, contact for coax cable, per M39029/102 & /103	Pin: 852-004-12-558 Skt: 852-005-12-559	RG174, RG316, RG179	N/A	
	Size 8, contact for coax cable, per M39029/59 & /60	Pin: 852-007-08-367 Skt: 852-006-08-366	M17 /95-RG180	859-042-02	
C1	Size 8, contact for 75 ohm coax cable	Pin: 852-056-01 Skt: 852-057-01	V73263, V75268, V76261	859-042-01	Aerospace-grade digital video
D	Size 8, differential twinax contact for 24 AWG twinax cable	Pin: 853-014-05 Skt: 853-013-05	M17 /176-00002	859-042-01	1553 databus / differential signal
E*	Size 8, El Ochito® contact for 26 AWG	White Pin: 858-003-02 Skt: 858-004-02	963-003-26 963-033-26	687-643-8-2	1G/40G Base-T Ethernet (white)
	Size 8, El Ochito® contact for 24/26-30 AWG Cable	Blue Pin: 858-028-02 Skt: 858-029-02	963-110 & 963-118	687-643-8-2	USB 3.0 (Blue)
	Size 8, El Ochito® contact for 26-30 AWG Cable	Red Pin: 858-030-02 Skt: 858-031-02	963-033-26	687-643-8-2	SATA 3.0 General High Speed (red)
Q	Size 8, contact for 24 AWG Quadrax	Pin: 854-001-02 Skt: 854-002-02	963-020	859-042-02	10/100Base-T ethernet
P	Size 8, power contact for 8 AWG	Pin: 850-014 Skt: 850-013	M22759/11 or equivalent	859-042-03	Power
T	Size 8, triax/ concentric twinax for twinax cable	Pin: 853-003-08-625 Skt: 853-004-08-628	M17 /176-00002	859-042-01	1553 Databus

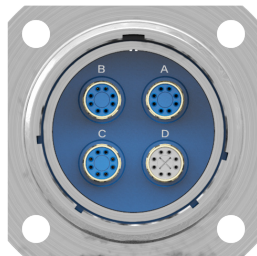
* See Table II for Contact Positions. See Figure 2 for orientation of inner pins relative to connector main key/keyway.

MIL-DTL-38999 Series III Type Environmental Connectors

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El Ochito Protocols		
WHITE	BLUE	RED
40GBASE-T	USB 3.0	Multi Gigabit 100 ohm protocols HDMI, SATA, DisplayPort 1.4



Example Code E7



Example Code E5

FIGURE 2: REFERENCE ORIENTATION OF INNER PINS RELATIVE TO CONNECTOR MAIN KEY/KEYWAY

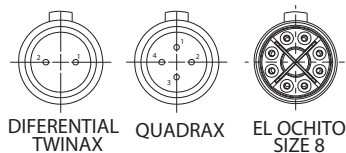


Table I: Lanyard Length					
Sym	L ±.236 (±6)	Sym	L ±.236 (±6)	Sym	L ±.236 (±6)
A	4.016 (102.01)	I	7.992 (203.00)	S	12.007 (304.98)
B	4.527 (114.99)	J	8.503 (215.98)	T	12.519 (317.98)
C	5.000 (127.00)	K	9.015 (228.98)	U	13.031 (330.99)
D	5.511 (139.98)	L	9.527 (241.99)	V	14.015 (355.98)
E	6.024 (153.01)	M	10.000 (254.00)	W	15.000 (381.00)
F	6.535 (165.99)	N	10.511 (266.98)	X	16.023 (406.98)
G	7.007 (177.98)	P	11.023 (279.98)	Y	17.007 (431.98)
H	7.519 (190.98)	R	11.535 (292.99)	Z	18.031 (457.99)

El Ochito Contact Configuration								
SYM	CAVITY A	CAVITY B	CAVITY C	CAVITY D	CAVITY E	CAVITY F	CAVITY G	CAVITY H
E	W	W	W	W	W	W	W	W
E2	B	W	W	W	W	W	W	W
E3	R	W	W	W	W	W	W	W
E4	B	B	W	W	W	W	W	W
E5	R	B	W	W	W	W	W	W
E6	R	R	W	W	W	W	W	W
E7	B	B	B	W	W	W	W	W
E8	R	B	B	W	W	W	W	W
E9	R	R	B	W	W	W	W	W
E10	R	R	R	W	W	W	W	W
E11	B	B	B	B	W	W	W	W
E12	R	B	B	B	W	W	W	W
E13	R	R	B	B	W	W	W	W
E14	R	R	R	B	W	W	W	W
E15	R	R	R	R	W	W	W	W
E16	B	B	B	B	B	W	W	W
E17	R	B	B	B	B	W	W	W
E18	R	R	B	B	B	W	W	W
E19	R	R	R	B	B	W	W	W
E20	R	R	R	R	B	W	W	W
E21	R	R	R	R	R	W	W	W
E22	B	B	B	B	B	B	W	W
E23	R	B	B	B	B	B	W	W
E24	R	R	B	B	B	B	W	W
E25	R	R	R	B	B	B	W	W
E26	R	R	R	R	B	B	W	W
E27	R	R	R	R	R	B	W	W
E28	R	R	R	R	R	R	W	W
E29	B	B	B	B	B	B	B	W
E30	R	B	B	B	B	B	B	W
E31	R	R	B	B	B	B	B	W
E32	R	R	R	B	B	B	B	W
E33	R	R	R	R	B	B	B	W
E34	R	R	R	R	R	B	B	W
E35	R	R	R	R	R	R	B	W
E36	R	R	R	R	R	R	R	W
E37	B	B	B	B	B	B	B	B
E38	R	B	B	B	B	B	B	B
E39	R	R	B	B	B	B	B	B
E40	R	R	R	B	B	B	B	B
E41	R	R	R	R	B	B	B	B
E42	R	R	R	R	R	B	B	B
E43	R	R	R	R	R	R	B	B
E44	R	R	R	R	R	R	R	B
E45	R	R	R	R	R	R	R	R

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HIGH-SPEED CONNECTORS

Separation Forces Max		
Shell Size	Straight Pull Pound (Newton)	15 Degree Pull Pound (Newton)
09	44.96 (200)	55.08 (245)
11	44.96 (200)	55.08 (245)
17	89.92 (400)	100.04 (445)
19	89.92 (400)	100.04 (445)
21	89.92 (400)	100.04 (445)
23	89.92 (400)	100.04 (445)
25	89.92 (400)	100.04 (445)

Dimensions				
Shell Size	Shell Size Code	A Max	B Min	VV Thread 1-6g-.0100R
09	A	1.720 (43.69)	.977 (24.82)	M12 x1-6g-0.100R
11	B	1.746 (44.35)	1.003 (25.48)	M15 x1-6g-0.100R
17	C	2.204 (55.98)	1.425 (36.20)	M25 x1-6g-0.100R
19	D	2.230 (56.64)	1.535 (38.99)	M28 x1-6g-0.100R
21	E	2.472 (62.79)	1.661 (42.19)	M31 x1-6g-0.100R
23	F	2.374 (60.30)	1.787 (45.39)	M34 x1-6g-0.100R
25	G	2.494 (63.35)	1.909 (48.49)	M37 x1-6g-0.100R

NOTES

- Material/Finish
 - Shell, coupling sleeve, lanyard ring inner sleeve, locking: aluminum alloy or CRES/see part number development
 - Contacts: copper alloy / gold plated
 - Insulators: high grade rigid dielectric/ N.A.
 - Seals: fluorosilicone blend / N.A.
- Connector is designed to mate with Glenair part number 233-217 and 233-224 with same size, same arrangement, and polarization.
- Blue color band indicates rear release retention system
- For backshell extender consult factory.
- Dimension B is clearance to accommodate MIL-C-85049 accessories.
- All contacts, insertion/ removal tool, and sealing plug to be ordered separately
- Connector 233-260 is commercial equivalent of D38999/29, /30 and /31 type 2
- Ground plane option only available for insert arrangements where all contacts are shielded type.
- Modification code 909 can be added to the end of part number to include contacts. See contact reference guide table.

All remaining combo contact arrangements for size #22, 20, 16 and 12 are to be power.

