



Sav-Con® connector savers

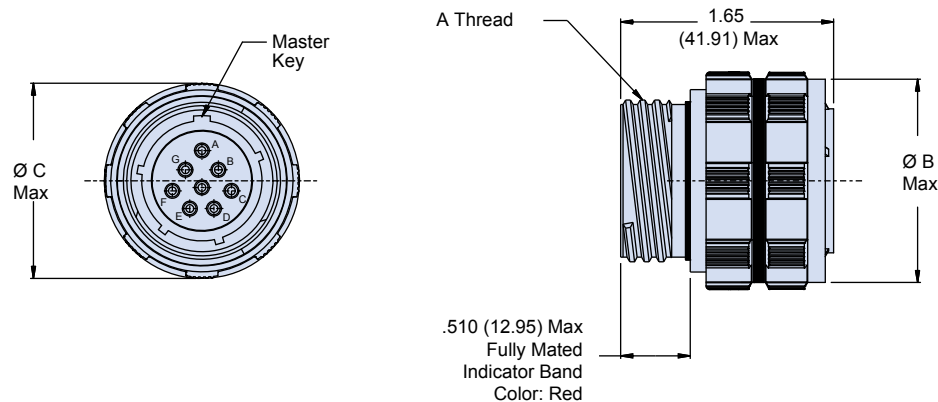
MIL-DTL-38999 Series III

233-213 SuperNine® Threaded Coupling



233-213 HIGH RELIABILITY WITH THREADED COUPLING

How To Order							
Sample Part Number	233-213	-NF	17-8	P	N	S	N
Series / Basic Part No.	233-213						
Finish	NF = Cadmium Olive Drab ME = Electroless Nickel MT = Nickel PTFE ZR = Black Zinc Nickel See Table I for Additional Finishes						
Shell Size - Insert Arrangement	See Table II						
Contact Style (Plug Side)	P = Pin, gold, 500 cycles S = Socket, gold, 500 cycles See Notes 3 and 4						
Alternate Polarization (Plug Side)	A, B, C, D, E, N = Normal, U = Universal; See Note 6 See Table III						
Contact Style (Receptacle Side)	P = Pin, gold, 500 cycles S = Socket, gold, 500 cycles See Notes 3 and 4						
Alternate Polarization (Receptacle Side)	A, B, C, D, E, N = Normal, U = Universal; See Note 6 See Table III						



NOTES

1. Glenair's 233-213 connector savers are designed to meet or exceed the mechanical dimensional, electrical, and environmental requirements of MIL-DTL-38999, D38999/20, D38999/26, and MIL-STD-1560 except as shown and/or noted.
2. Glenair connector savers mate with any QPL manufacturer's MIL-DTL-38999, series III plugs and receptacles that have the same shell size, insert arrangement, and polarization.
3. For pin/pin and socket/socket, symmetrical insert layouts only.
4. Power to a given contact on one end will result in power to a contact directly opposite, regardless of identification letter.
5. Electrical safety limits must be established by user. Peak voltage, switching surge, transient, etc. should be used to determine the safety application.
6. Alternate polarization 'U' (universal) is a non-standard/non-mill-spec option intended for test lab use only which allows for mating to any QPL manufacturer's MIL-DTL-38999, series III connector having the same shell size, insert arrangement, and mating contact size.

Dimensions						
Shell Size Code	Shell Size	A Thread	Ø B Max		Ø C Max	
			In	mm	In	mm
A	9	.6250 - 0.1P - 0.3L - TS-2A	0.811	20.60	0.858	21.79
B	11	.7500 - 0.1P - 0.3L - TS-2A	0.929	23.60	0.984	24.99
C	13	.8750 - 0.1P - 0.3L - TS-2A	1.110	28.19	1.157	29.39
D	15	1.0000 - 0.1P - 0.3L - TS-2A	1.232	31.29	1.280	32.51
E	17	1.1875 - 0.1P - 0.3L - TS-2A	1.358	34.49	1.406	35.71
F	19	1.2500 - 0.1P - 0.3L - TS-2A	1.469	37.31	1.516	38.51
G	21	1.3750 - 0.1P - 0.3L - TS-2A	1.594	40.49	1.642	41.71
H	23	1.5000 - 0.1P - 0.3L - TS-2A	1.720	43.69	1.768	44.91
J	25	1.6250 - 0.1P - 0.3L - TS-2A	1.843	46.81	1.890	48.01



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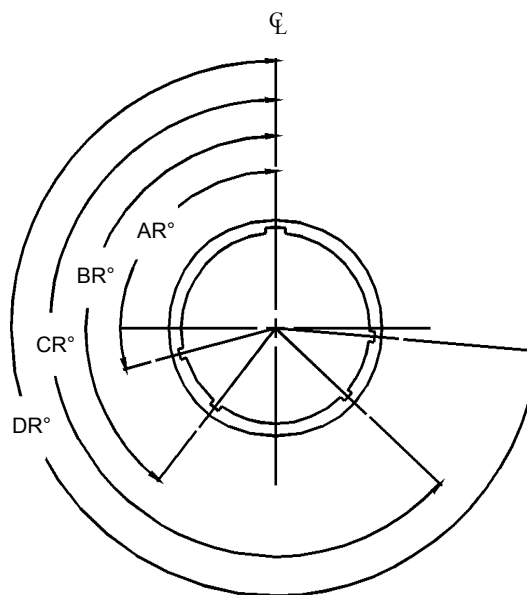
Reference Information



Table I: Material and Finish		
Plating Code	Material	Finish
M	Aluminum	Electroless Nickel
B		Cad Plate, Olive Drab
NF		Cadmium Plate Olive Drab over Electroless Nickel
NC		Zinc-Cobalt
ZN		Olive Drab Zinc-Nickel
MT		Ni-PTFE 1000 Hour Grey™ (Nickel Fluorocarbon Polymer)
ZR		Zinc Nickel, Black
ME		Electroless Nickel (RoHS)
ZL	Stainless Steel	Electro-Deposited Nickel

Table III: Manin and Alternate Keyway Positions

Shell Size Code Ref	Shell Size	Alt. Keyway Code	AR°	BR°	CR°	DR°
A	9	N	105	140	215	265
		A	102	132	248	320
		B	80	118	230	312
		C	35	140	205	275
		D	64	155	234	304
		E	91	131	197	240
B	11	N	95	141	208	236
		A	113	156	182	292
	C	B	90	145	195	252
		C	53	156	220	255
	D	D	119	146	176	298
		E	51	141	184	242
E	17	N	80	142	196	293
		A	135	170	200	310
		B	49	169	200	244
	F	C	66	140	200	257
		D	62	145	180	280
		E	79	153	197	272
G	21	N	80	142	196	293
		A	135	170	200	310
		B	49	169	200	244
	H	C	66	140	200	257
		D	62	145	180	280
	J	E	79	153	197	272



FACE VIEW
RECEPTACLE INSERT



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Reference Information



Table II: Shell Size - Insert Arrangement						
Shell Size Code	Shell Size Ref.	Insert Arr. Dash No.	Contact Size			
			22	20	16	12
A	9	9-3		3		
		9-35	6			
		9-44	4			
		9-98		3		
B	11	11-2			2	
		11-4		4		
		11-5		5		
		11-6		6		
		11-35	13			
		11-98		6		
		11-99		7		
C	13	13-4			4	
		13-8		8		
		13-35	22			
		13-98		10		
D	15	15-5			5	
		15-15		14	1	
		15-18		18		
		15-19		19		
		15-35	37			
		15-97		8	4	
E	17	17-6				6
		17-8			8	
		17-26		26		
		17-35	55			
		17-99		21	2	
F	19	19-11			11	
		19-28		26	2	
		19-30		29	1	
		19-32		32		
		19-35	66			
		19-45	67			

Table II: Shell Size - Insert Arrangement						
Shell Size Code	Shell Size Ref.	Insert Arr. Dash No.	Contact Size			
			22	20	16	12
G	21	21-35	79			
		21-11				11
		21-16			16	
		21-24		24		
		21-25		25		
		21-27		27		
		21-39		37	2	
		21-41		41		
H	23	23-35	100			
		23-2	85			
		23-21			21	
		23-32		32		
		23-34		34		
		23-36		36		
		23-53		53		
		23-55		55		
		23-97			16	
		23-99			11	
J	25	25-2	100			
		25-4		48	8	
		25-19				19
		25-24			12	12
		25-29			29	
		25-35	128			
		25-43		23	20	
		25-61		61		

Table IV: Capacitor Array Code Capacitance Range for Filtered Connectors		
Class	Pi - Circuit (pF)	C - Circuit (pF)
X*	160,000 - 240,000	80,000 - 120,000
Y*	80,000 - 120,000	40,000 - 60,000
Z*	60,000 - 90,000	30,000 - 45,000
A	38,000 - 56,000	19,000 - 28,000
B	32,000 - 45,000	16,000 - 22,500
C	18,000 - 33,000	9,000 - 16,500
D	8,000 - 12,000	4,000 - 6,000
E	3,300 - 5,000	1,650 - 2,500
F	800 - 1,300	400 - 650
G	400 - 600	200 - 300
J	70-120	35-60

* Filter Classes X, Y and Z are 250 VDC.
All others are 500 VDC

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