

Klemsan



CONNECTOR CATALOG

MIL-DTL-38999 Series III



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Klemsan D38999 Series of circular connectors compliant with MIL-DTL-38999 III series requirements, adopt Triple-start threaded quick connection, with an anti-loose mechanism, featuring small size, light weight, high-density contacts, EMI/RFI shielding, removable crimp contacts, and anti-oblique-mating; This product has a fireproof shell, a variety of coatings, and vibration performance of high strength under high temperature, suitable for use in harsh sandstorm and damp circumstances. With quick connection, anti-loose mechanism, EMI/RFI shielding, interface sealing, anti-oblique-mating design, the material of shell is optional in aluminium-alloy, naval brass, stainless steel or composite.

APPLICATIONS

- Military Aviation
- Commercial Aviation
- Communication
- Armed Ground Vehicles
- High Temperature Applications
- Missiles
- Marine

MIL-STD-38999 Series III Part Numbering

	D38999/	20	W	B	35	P	N
Product Family							
Connector Shell Type							
20 = Square Flanged Receptacle							
24 = Jamnut Receptacle							
26 = Shielding Cable Plug							
Plating							
W= Olive Drab Cadmium Plating							
F = Electroless nickel plating							
T = Marine Bronze (copper aluminium alloy)							
K = Stainless Steel Passivated							
L = Black anodized							
J = Composite material olive drab cadmium							
M= Composite material electroless nicked plating							
Shell Sizes							
09 (A), 11 (B), 13 (C), 15 (D), 17 (E), 19 (F), 21 (G), 23 (H), 25 (J)							
Contact Layout (Page 10-11)							
Contact Type							
P = Crimp male pin							
S = Crimp female socket							
PL = Long PCB male pin							
PC= Short PCB Male pin							
SL = Long PCB Female socket							
SC = Short PCB Female socket							
Orientation							
N = Normal							
A, B, C, D = Alternatives							



Electrical Specifications

Contact resistance and current rating

Contact Type	Diameter	Resistance	Current (A)	Lost at 25 °C (mV)
22D#	Ø 0.76	≤ 12.0	5.0	< 55
20#	Ø 1.00	≤ 5.0	7.0	< 45
16#	Ø 1.60	≤ 2.5	13.0	< 50
12#	Ø 2.40	≤ 1.5	23.0	< 50
10#	Ø 3.15	≤ 1.0	40.0	< 50
Withstanding Voltage (V)				
Service Rating	M	N	I	II
Sea Level	1300	1000	1800	2300
21.000 m	800	600	1000	1000
EMI Shielding				
Min. Attenuation @ 1GHz. 85dB (F and W)				
Min. Attenuation @ 10GHz. 65dB (F)				
Min. Attenuation @ 10GHz. 50dB (W)				
Insulation Resistance				
Normal ≥ 5000 MΩ damp heat ≥ 100 MΩ				
Electrical continuity between shells				
W class ≤ 2.5 mΩ				
F class ≤ 1.0 mΩ				
K class ≤ 5.0 mΩ				

Mechanical Specifications

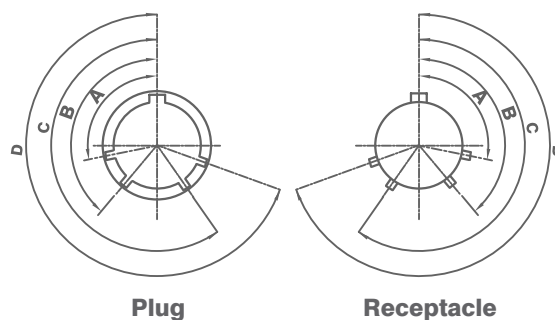
Shell	Aluminium alloy, stainless steel or copper alloy
Plating	W class: Olive Drab Cadmium
	K class: Stainless Steel
	F class: Electrolyses Nickel Plating
Insert	Thermo-set plastic
Grommet and Seal	Silicon rubber
Contact	Copper alloy with gold plated
EMI Spring	Beryllium copper
Endurance	500 cycles
Vibration	Sine: 60gr, @ 55C according to MIL-DTL-38999
	Random: 44,1 grms @ high temperature
	49,5 grms @ ambient temperature
Shock	300gr @ 3 ms half sinusoid, peak value of acceleration
Contact Retention	22D,45N / 20,67N / 16,111N / 12,111N / 10,111N / 8,111N

Environmental

Operating Temperature	W,J class: -65 °C ~ +175 °C M,K,F class: -65 °C ~ +200 °C
Salt Spray	N and F class 48 hours
	W and L class 500 hours
	T, K, J and M class 1000 hours
Seal	Comply with the request of MIL-DTL-38999K low-pressure immersion.
Damp heat	10 cycles in 24 hours according to MIL-DTL-38999K
Fluid Resistant	Various fuels, coolant and solvent
Altitude	Designed to use up to 100.000Ft from Sea Level

Rotation

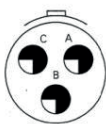
Shell Size	Angle	N	A	B	C	D	E
9	A°	105	102	80	35	64	91
	B°	140	132	118	140	155	131
	C°	215	248	230	205	234	197
	D°	265	320	312	275	304	240
11,13,15	A°	95	113	90	53	119	51
	B°	141	156	145	156	146	141
	C°	208	182	195	220	176	184
	D°	236	292	252	255	298	242
17,19,21,23,25	A°	80	135	49	66	62	79
	B°	142	170	169	140	145	153
	C°	196	200	200	200	180	197
	D°	293	310	244	257	280	272



Contact Layouts



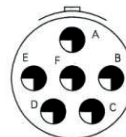
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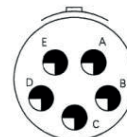
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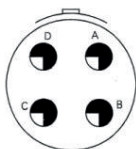
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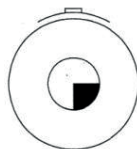
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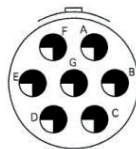
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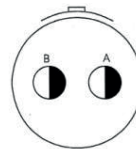
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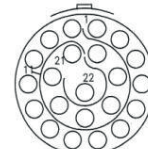
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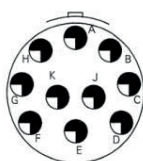
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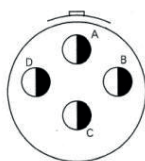
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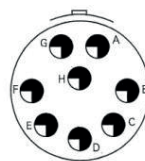
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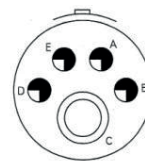
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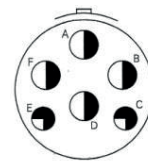
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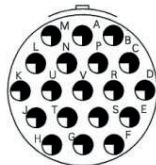
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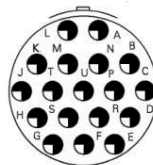
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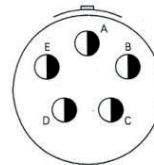
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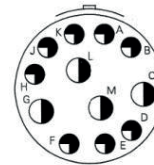
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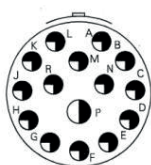
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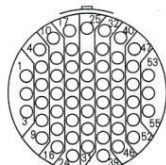
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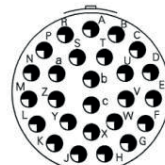
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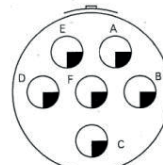
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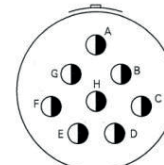
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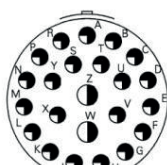
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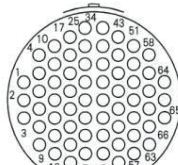
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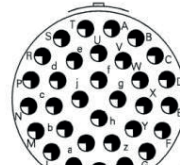
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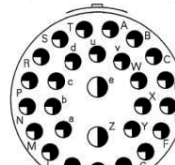
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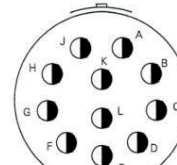
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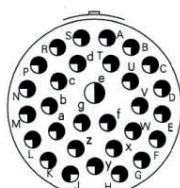
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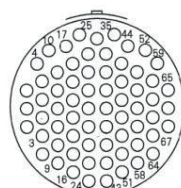
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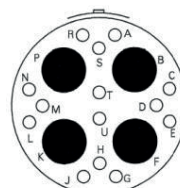
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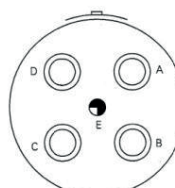
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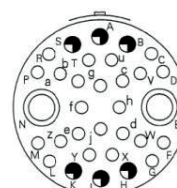
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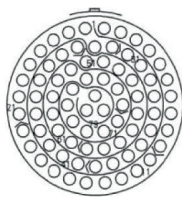
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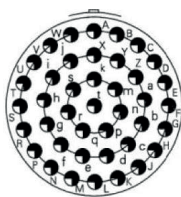
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○ 22D# ● 20# ◐ 16# ◑ 12# ◎ 10# ● 8#

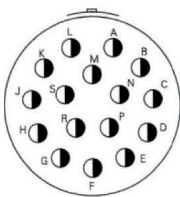
Contact Layouts



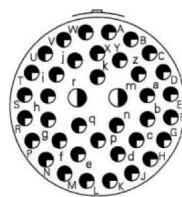
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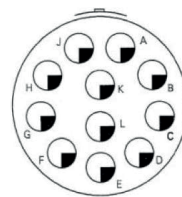
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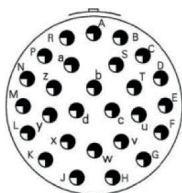
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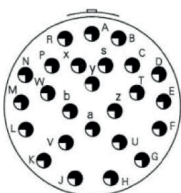
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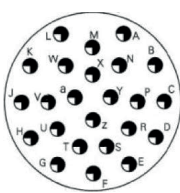
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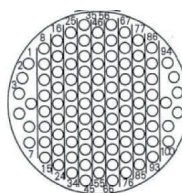
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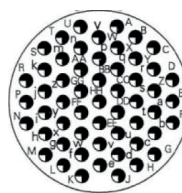
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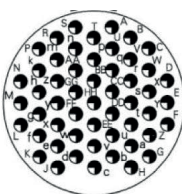
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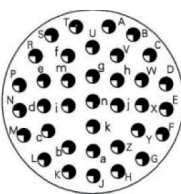
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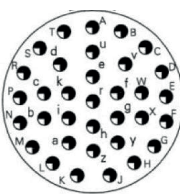
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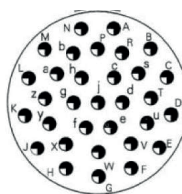
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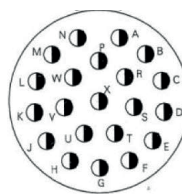
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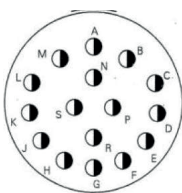
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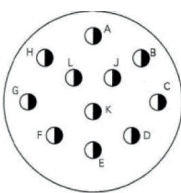
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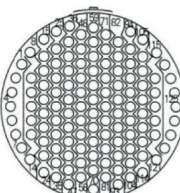
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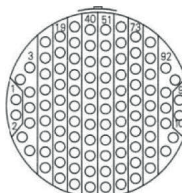
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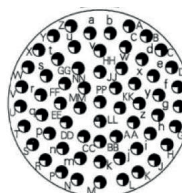
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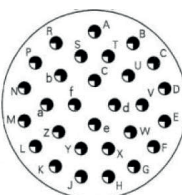
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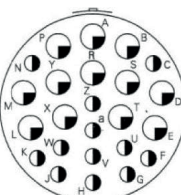
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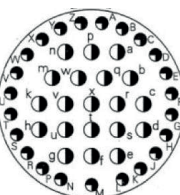
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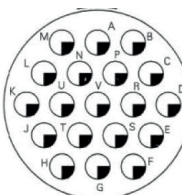
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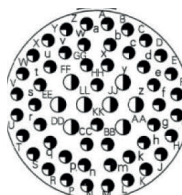
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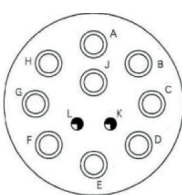
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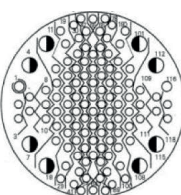
25-19



25-04



25-11



25-93

○ 22D# ● 20# ◐ 16# ◑ 12# ◒ 10# ● 8#

Number of Contacts								
Military	Series I & III	Service Rating	Total # of Con- tacts	Contact Matrix				
				22D	20	16	12	8
A35	9-35	M	6	6				
A98	9-98	I	3		3			
	11-4	I	4		4			
B5	11-5	I	5		5			
B35	11-35	M	13	13				
B98	11-98	I	6		6			
B99	11-99	I	7		7			
		II	3			3		
C4	13-4	I	4			4		
C8	13-8	I	8		8			
C35	13-35	M	22	22				
C98	13-98	I	10		10			
D5	15-5	II	5			5		
D15	15-15	I	15		14	1		
D18	15-18	I	18		18			
D19	15-19	I	19		19			
D35	15-35	M	37	37				
D97	15-97	I	12		8	4		
E6	17-6	I	6				6	
E8	17-8	II	8			8		
E26	17-26	I	26		26			
E35	17-35	M	55	55				
E99	17-99	I	23		21	2		
F11	19-11	II	11			11		
F28	19-28	I	28		26	2		
	19-30	I	30		29	1		
F32	19-32	I	32		32			
F35	19-35	M	66	66				
G11	21-11	I	11				11	
G16	21-16	II	16			16		
G35	21-35	M	79	79				
G39	21-39	I	39		37	2		
G41	21-41	I	41		41			
G75	21-75	M	4					4***
H21	23-21	II	21			21		
	23-32	I	32		32			
H35	23-35	M	100	100				
H53	23-53	I	53		53			
H55	23-55	I	55		55			
J4	25-4	I	56		48	8		
J19	25-19	I	19				19	
J24	25-24	I	24			12	12	
J29	25-29	I	29			29		
J35	25-35	M	128	128				
J37	25-37	I	37			37		
J43	25-43	I	43		23	20		
J46	25-46	I, Twinax	46		40	4		2***
J8	25-8	Twinax	8					8***
J20	25-20	N,Coax, Twinax	30		10	13	4**	3***
J42	25-42	I, Coax	42		38			4*
J61	25-61	I	61		61			
	25-64	I	64	40	8	10	6	
	25-66	I	66	53	2	11		

* Coax Contact for RG-180 cable

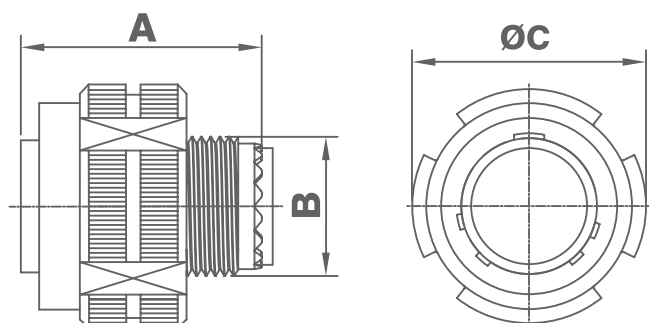
** Coax Contact for RG-174, -179 and 316 cables

*** Twinax contacts for M17/176-00002 cables .

Please consult Klemsan for other special contacts....

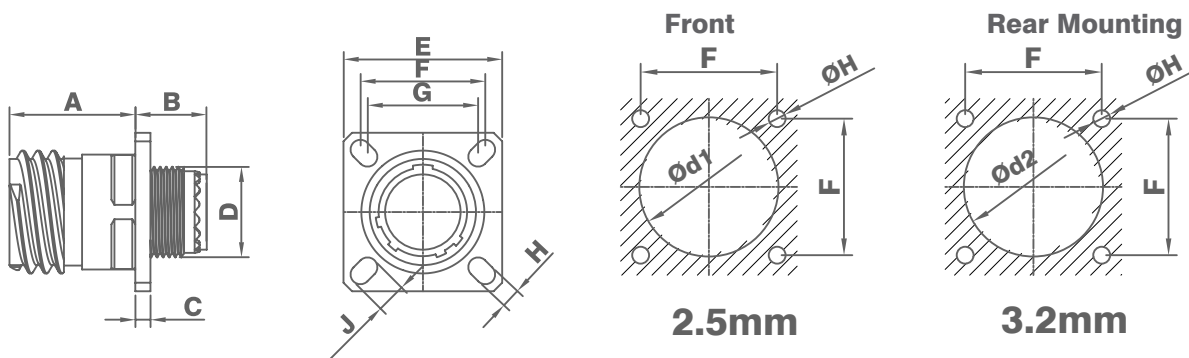
Dimension

EMI Shielding Plug (D38999/26)



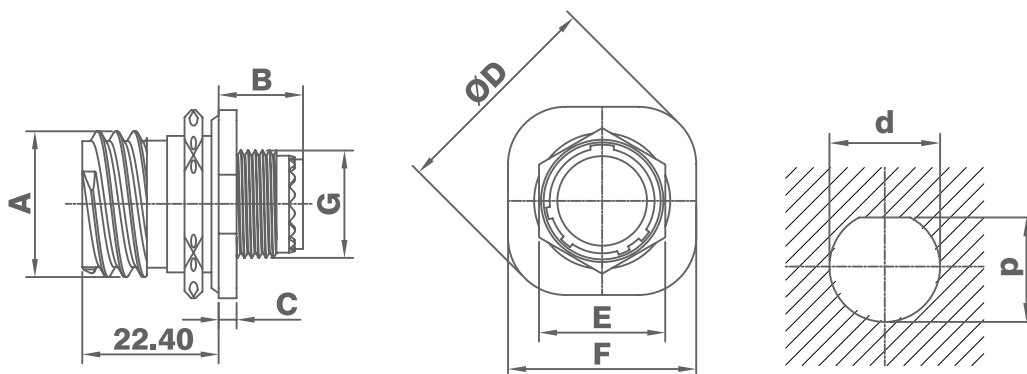
Shell	A (max)	B Thread	C (max)
09	31.00	M12*1-6g	21.80
11	31.00	M15*1-6g	25.00
13	31.00	M18*1-6g	29.40
15	31.00	M22*1-6g	32.40
17	31.00	M25*1-6g	35.60
19	31.00	M28*1-6g	38.50
21	31.00	M31*1-6g	41.70
23	31.00	M34*1-6g	44.90
25	31.00	M37*1-6g	48.00

Square Flanged Receptacle (D38999/20)



Shell	A (max)	B (max)	C (max)	D Thread	E	F	G	H	J	d1 (min)	d2 (min)
09	20.90	10.60	2.50	M12*1-6g	23.80	18.26	15.09	3.25	5.49	16.66	13.11
11	20.90	10.60	2.50	M15*1-6g	26.20	20.62	18.26	3.25	4.93	20.22	15.88
13	20.90	10.60	2.50	M18*1-6g	28.60	23.01	20.62	3.25	4.93	23.42	19.05
15	20.90	10.60	2.50	M22*1-6g	31.00	24.61	23.01	3.25	4.39	26.59	23.01
17	20.90	10.60	2.50	M25*1-6g	33.30	26.97	24.61	3.25	4.93	30.96	25.81
19	20.90	10.60	2.50	M28*1-6g	36.50	29.36	26.97	3.25	4.93	32.94	28.98
21	20.10	11.40	3.20	M31*1-6g	39.70	31.75	29.36	3.25	4.93	36.12	32.16
23	20.10	11.40	3.20	M34*1-6g	42.90	34.93	31.75	3.91	6.15	39.29	34.93
25	20.10	11.40	3.20	M37*1-6g	46.00	38.10	34.93	3.91	6.15	42.47	37.69

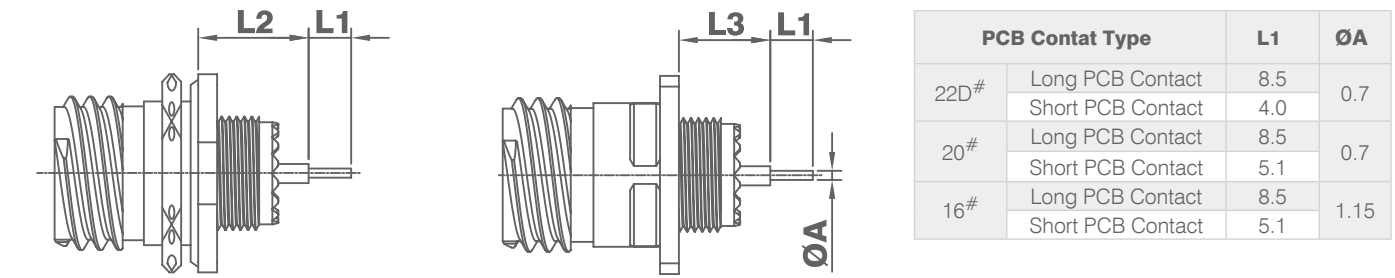
Jamnut Receptacle (D38999/24)



Shell	A	B (max)	C (max)	D (max)	E (max)	F	G Thread	d	p
09	16.50	9.90	3.20	30.50	24.00	27.00	M12*1-6g	17.70	16.99
11	19.30	9.90	3.20	35.20	27.00	31.80	M15*1-6g	20.88	19.53
13	24.00	9.90	3.20	38.40	32.00	34.90	M18*1-6g	25.58	24.26
15	27.20	9.90	3.20	41.60	36.00	38.10	M22*1-6g	28.80	27.53
17	30.40	9.90	3.20	44.80	37.00	41.30	M25*1-6g	31.98	30.68
19	33.40	9.90	3.20	49.30	41.00	46.00	M28*1-6g	35.15	33.86
21	36.50	9.90	3.20	52.70	46.00	49.20	M31*1-6g	38.28	37.06
23	39.70	9.90	3.20	55.90	50.00	52.40	M34*1-6g	41.50	40.24
25	42.80	9.90	3.20	59.00	51.23	55.60	M37*1-6g	44.68	43.41

Contact Layouts

Receptacle with PCB Contacts

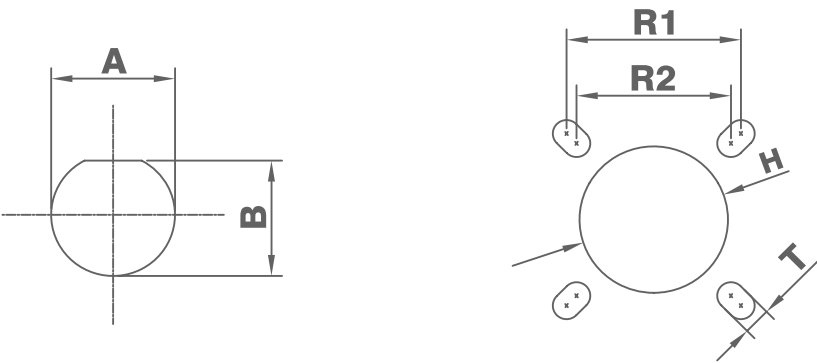


Jamnut Receptacle (D38999/24) Square Flanged Receptacle (D38999/20)

Dimension			Shell 09, 11	Shell 13, 15, 17, 19, 21, 23, 25
L2	22D# Male	min	10.52	10.34
		max	11.46	11.28
	22D# Thread	min	10.19	10.01
		max	11.46	11.28
		16# or 20#	10.69	10.51
L3	22D# Male	min	11.63	11.45
		max	9.48	9.48
	22D# Thread	min	10.58	10.58
		max	9.15	9.15
		max	10.58	10.58
	16# or 20#	min	9.65	9.65
		max	10.75	10.75

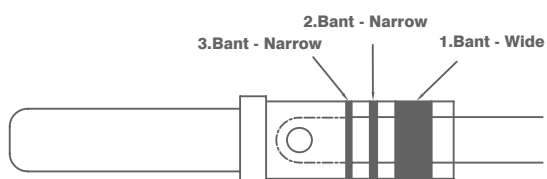
Panel Cut Out

Square Flanged Receptacle (D38999/20) Jamnut Receptacle (D38999/24)



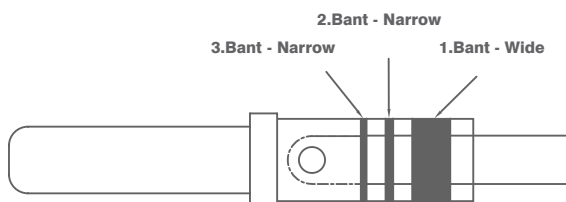
A Dia			B Dia		H Dia							
+	0,250	0,010			0,000	0,000	0,250		0,010			
-	0,000	0,000	0,250	0,010	0,000	0,000	R1 (TP)		R2 (TP)		T (max)	T (max)
Shell	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
9	17,78	0,700	17,02	0,670	15,90	0,626	18,26	0,719	15,09	0,594	3,4	0,134
11	20,96	0,825	19,58	0,771	19,08	0,751	20,62	0,812	18,26	0,719	3,4	0,134
13	25,65	1,010	24,26	0,955	22,25	0,876	23,01	0,906	20,62	0,812	3,4	0,134
15	28,83	1,135	27,56	1,085	25,43	1,001	24,61	0,969	23,01	0,906	3,4	0,134
17	32,00	1,260	30,73	1,210	30,18	1,188	26,97	1,062	24,61	0,969	3,4	0,134
19	35,18	1,385	33,91	1,335	31,78	1,251	29,36	1,156	26,97	1,062	3,4	0,134
21	38,35	1,510	37,08	1,460	34,95	1,376	31,75	1,250	29,36	1,156	3,4	0,134
23	41,53	1,635	40,26	1,585	38,38	1,511	34,93	1,375	31,75	1,250	4,1	0,160
25	44,70	1,760	43,43	1,710	41,30	1,626	38,10	1,500	34,92	1,375	4,1	0,160

Contacts Male Pin - MIL-C-39029/58



	Color Bants			
Contact	1	2	3	M39029 Military part
22D	Orange	Blue	Black	M39029/58-360
20	Orange	Blue	Orange	M39029/58-363
16	Orange	Blue	Yellow	M39029/58-364
12	Orange	Blue	Green	M39029/58-365

Contacts Female Socket - MIL-C-39029/56



	Color Bants			
Contact	1	2	3	M39029 Military part
22D	Orange	San	Grey	M39029/56-348
20	Orange	Green	Brown	M39029/56-351
16	Orange	Green	Red	M39029/56-352
12	Orange	Green	Orange	M39029/56-353

Cable size and diameters

		Finished Cable Thread Size	
Contact Size	Cable (AWG)	Minimum	Maximum
22D	28, 26, 24, 22	0,76	1,37
22M*	28, 26, 24	0,76	1,27
22*	26, 24, 22	0,86	1,52
20	24, 22, 20	1,02	2,11
16	20, 18, 16	1,65	2,77
12	14, 12	2,46	3,61
8 Coax	RG-180	3,45	3,71
8 Twinax	M17/176-00002	3,15	3,40
12 Coax	RG174, 179, 316	2,39	2,59

* Only for reference

Torque Values

Shell	Newton meter (N*m)	Inch- Pounds (in*lb)
09	3,39 / 4,07	30/36
11	4,52 / 5,20	40/46
13	6,21 / 6,78	55/60
15	7,91 / 8,47	70/75
17	9,04 / 9,60	80/85
19	10,17 / 10,73	90/95
21	11,30 / 12,43	100/110
23	12,43 / 13,56	110/120
25	13,56 / 14,69	120/130



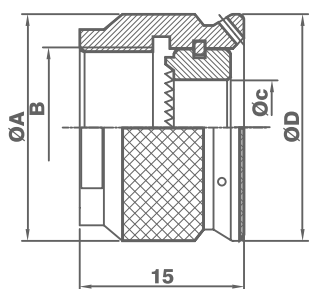
MIL-DTL-38999 Series III, IV Accessories

Backshell Part Numbering

	M85049/ 38	-15	N	9	A
Main Family					
Backshell Type					
14 = Back nut					
18 = Straight Cable clamp with shielding					
38 = Straight cable clamp					
39 = 90° elbow cable clamp with shielding					
69 = Heat shrinkable sleeve					
88 = Shielding Backshell					
Shell size					
09, 11, 13, 15, 17, 19, 21, 23, 25					
Plating Type					
W = Olive Drab Cadmium					
N = Electrolyses Nickel Plating					
S = Stainless Steel passivated					
A = Black Anodise					
J = Olive Drab Cadmium (composite Shell)					
M = Electrolyses Nickel Plating(composite Shell)					
Cable Exit Diameter					
Omit = Standard					
01 = 1.57 ~ 3.18 mm, 02 = 3.18 ~ 6.35 mm					
03 = 6.35 ~ 9.53 mm, 04 = 9.53 ~ 12.70 mm					
05 = 12.70 ~ 15.88 mm, 06 = 15.88 ~ 19.05 mm					
07 = 19.05 ~ 22.23 mm, 08 = 22.23 ~ 25.40 mm					
09 = 25.40 ~ 28.58 mm, 10 = 28.58 ~ 31.75 mm					
Length					
Omit = Standard length (64.4 mm)					
A = 89.8 mm					
B = 115.2 mm					
C = 140.6 mm					

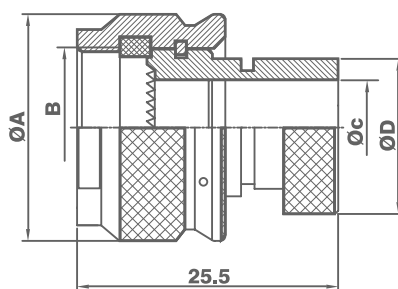
Backshell Dimension

MS85049/14 - Back Nut



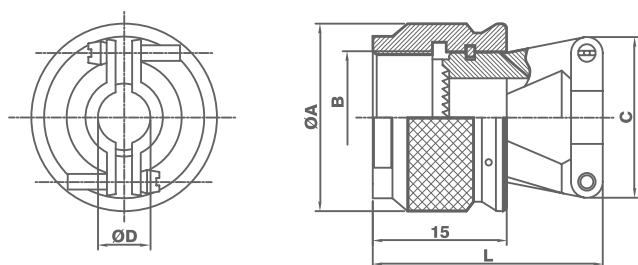
Shell	A	Thread Tip	C	D
09	15.2	M12*1	6.7	18.0
11	18.2	M15*1	9.9	21.0
13	21.2	M18*1	12.8	24.0
15	25.1	M22*1	16.0	28.0
17	28.1	M25*1	19.2	31.0
19	31.1	M28*1	21.4	34.0
21	34.0	M31*1	24.6	37.0
23	37.0	M34*1	27.7	40.0
25	40.0	M37*1	30.9	43.0

MS85049/69 - Heat Shrinkable



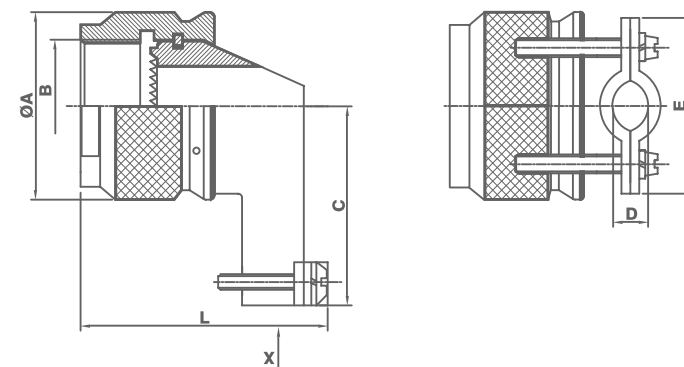
Shell	A	B Thread	C	D
09	18.0	M12*1	6.	13.5
11	21.0	M15*1	9.	15.3
13	24.0	M18*1	12.8	19.6
15	28.0	M22*1	16.0	21.2
17	31.0	M25*1	19.2	24.4
19	34.0	M28*1	21.4	26.4
21	37.0	M31*1	24.6	30.9
23	40.0	M34*1	27.7	34.4
25	43.0	M37*1	30.9	36.6

MS85049/38 - Straight cable clamp



Shell	A (max)	B Thread	C (max)	D (min)	D (max)	L (max)
09	18.0	M12*1	20.0	2.49	5.94	27.0
11	21.0	M15*1	21.0	3.87	5.94	28.5
13	24.0	M18*1	23.4	4.83	8.33	30.0
15	28.0	M22*1	26.6	6.60	11.61	31.5
17	31.0	M25*1	30.6	7.19	15.60	33.5
19	34.0	M28*1	34.0	8.26	16.10	36.6
21	37.0	M31*1	35.8	8.71	17.73	39.8
23	40.0	M34*1	39.0	9.68	20.90	42.9
25	43.0	M37*1	40.6	10.62	21.66	45.0

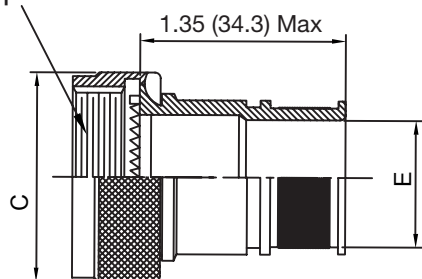
MS85049/39 - 90° Elbow cable clamp with shielding



Shell	A	B Thread	C	D (min)	D (max)	E (max)	L (max)
09	18.0	M12*1	20.6	2.49	5.94	21.6	29.5
11	21.0	M15*1	22.0	3.87	5.94	22.8	29.5
13	24.0	M18*1	23.6	4.83	8.33	26.0	31.9
15	28.0	M22*1	25.2	6.60	11.61	29.0	35.1
17	31.0	M25*1	26.8	7.19	15.61	30.6	39.1
19	34.0	M28*1	31.3	8.26	16.10	37.0	41.5
21	37.0	M31*1	32.9	8.71	17.73	39.0	43.3
23	40.0	M34*1	34.5	9.68	20.90	41.0	46.5
25	43.0	M37*1	36.1	10.62	21.66	42.0	47.1

M85049/88 - EMI Rotatable backshell

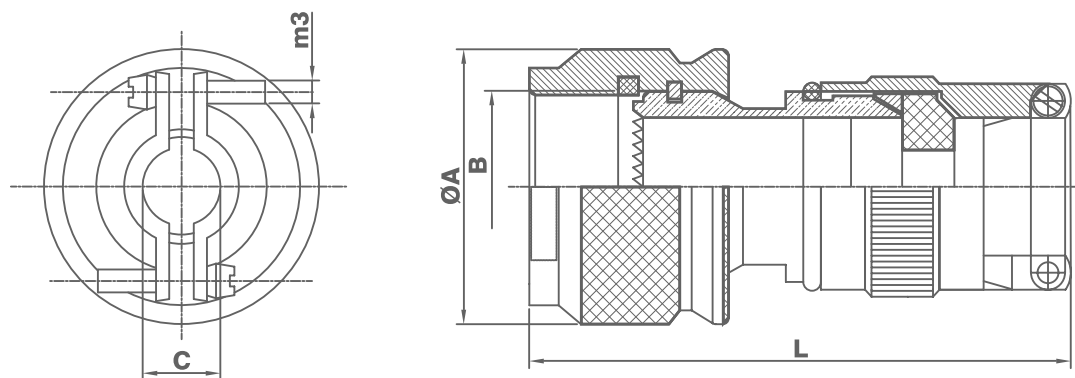
A Type Thread



Shell	A Thread	C Diameter max	E Diameter - Cable Entry	
			Type 02 ±0,3	Type 03
09	M12 X 1 - 6H	21,80		6,40
11	M15 X 1 - 6H	25,10		7,90
13	M18 X 1 - 6H	29,50	7,90	11,10
15	M22 X 1 - 6H	32,50	11,10	14,30
17	M25 X 1 - 6H	35,80	12,70	15,90
19	M28 X 1 - 6H	38,60	15,90	19,10
21	M31 X 1 - 6H	41,70	15,90	20,60
23	M34 X 1 - 6H	45,00	17,50	23,80
25	M37 X 1 - 6H	48,00	19,10	25,40



MS85049/18 - Straight Cable clamp with shielding



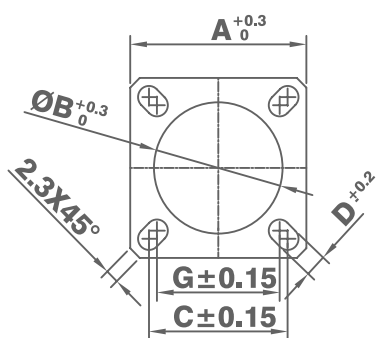
Shell	Cable Exit Dia	A	B Thread
09	01 ~ 02	19	M12*1
11	01 ~ 03	22	M15*1
13	02 ~ 04	25.1	M18*1
15	02 ~ 05	29	M22*1
17	02 ~ 06	32	M25*1
19	03 ~ 07	35	M28*1
21	03 ~ 08	38	M31*1
23	03 ~ 09	41.1	M34*1
25	04 ~ 10	41.1	M37*1

Cable Exit Dia	Min-Max Diameter
01	1.57 ~ 3.18
02	3.18 ~ 6.35
03	6.35 ~ 9.53
04	9.53 ~ 12.7
05	12.7 ~ 15.88
06	15.88 ~ 19.05
07	19.05 ~ 22.23
08	22.23 ~ 25.40
09	25.40 ~ 28.58
10	28.58 ~ 31.75

Shell	Length	L
09 ~ 25	Standard	64.4
09 ~ 25	A	89.8
15 ~ 25	B	115.2
21 ~ 25	C	140.



Gaskets



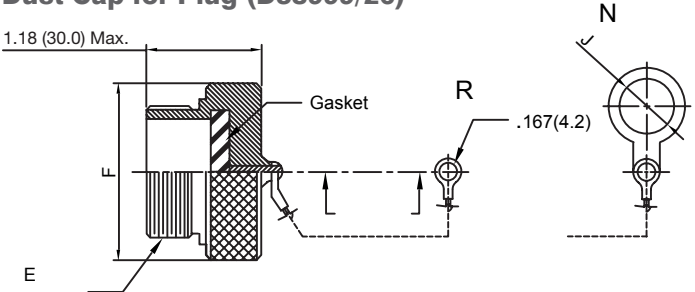
Shell	Gasket	Conductive Gasket	A	B	C	G	D
09	KLM.GS.885	KLM.GS.886	23.9	16.1	18.2	15.0	3.3
11	KLM.GS.887	KLM.GS.888	26.3	19.2	20.6	18.2	3.3
13	KLM.GS.889	KLM.GS.890	28.7	22.4	23.0	20.6	3.3
15	KLM.GS.891	KLM.GS.892	31.1	25.6	24.6	23.0	3.3
17	KLM.GS.893	KLM.GS.894	33.4	30.4	26.9	24.6	3.3
19	KLM.GS.895	KLM.GS.896	36.6	32.0	29.3	26.9	3.3
21	KLM.GS.897	KLM.GS.898	39.8	34.9	31.7	29.3	3.3
23	KLM.GS.899	KLM.GS.900	43.0	38.3	34.9	31.7	4.0
25	KLM.GS.901	KLM.GS.902	46.1	41.4	38.1	34.9	4.0

Dust Caps

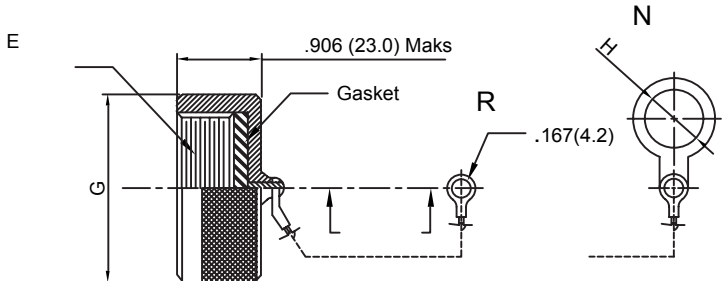
Part Numbering

	D38999/	32	W	13	N
Main Series					
32 = Plug Dust Cap					
33 = Receptacle Dust Cap					
Plating					
W = Olive Drab Cadmium					
F = Electrolyses Nickel Plating					
J = Olive Drab Cadmium (Composite)					
M = Electrolyses Nickel Plating (Composite)					
J = Olive Drab Cadmium (Composite Shell)					
M = Electrolyses Nickel Plating (Composite Shell)					
Shell					
09, 11, 13, 15, 17, 19, 21, 23, 25					
Chain type					
N = Stainless Steel rope with Ring					
R = Stainless Steel rope with Hole					

Dust Cap for Plug (D38999/26)



Dust Cap for Receptacle (D38999/20 and 24)



Shell		09	11	13	15	17	19	21	23	25
A	Max	22.86	25.40	30.48	33.02	36.83	39.37	43.18	44.45	48.26
B	Min	12.92	17.78	19.27	22.60	25.62	28.95	31.97	34.03	38.32
C	Max	22.86	27.86	30.48	31.75	36.83	38.10	41.91	44.45	48.26
D	Min	17.78	21.33	25.62	28.95	31.97	35.30	38.32	41.65	44.45
L	Max	127.00	127.00	127.00	127.00	127.00	127.00	127.00	127.00	127.00



