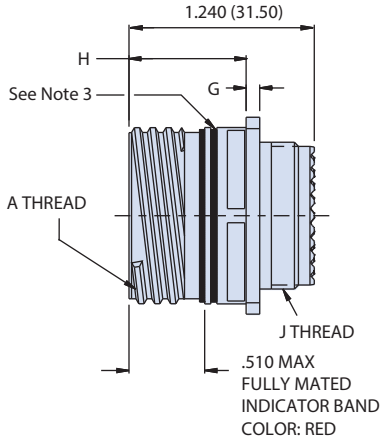
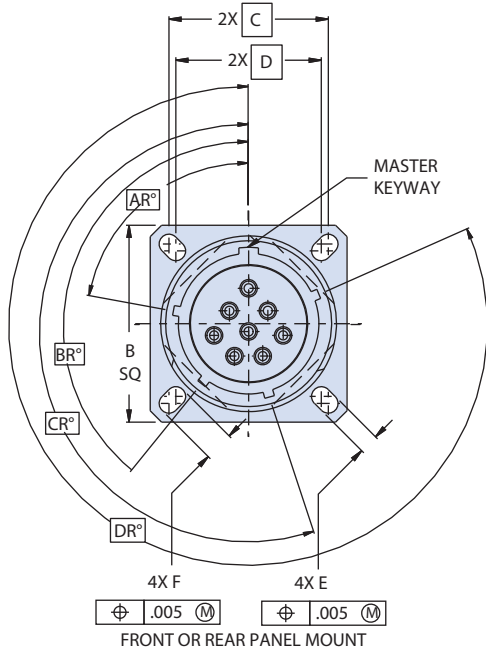


MIL-DTL-38999 Series III, Triple-Start Thread

D38999/20 wall mount receptacle with rear release crimp contacts and accessory threads



QPL Part Number Development						
Sample Part Number		D38999/20	W	A	35	P N
D38999 Series III	D38999/20 = Wall mount receptacle					
Class	W = Environmental, aluminum, cadmium O.D. over electroless nickel (500 hour salt spray), -65°C to +175°C, conductive plating F = Environmental, aluminum, electroless nickel (48 hour salt spray), -65°C to +200°C, conductive plating G = Environmental, aluminum, electroless nickel (48 hour salt spray), matte finish, space grade, -65°C to +200°C, conductive plating T = Environmental, aluminum, Nickel-PTFE, -65°C to +175°C, conductive plating					
Shell Size Code	A, B, C, D, E, F, G, H and J (per MIL-STD-1560)					
Insert Arrangement	Per MIL-STD-1560; See reference information section for details					
Contact Type	P = Pin, 500 cycles A = Pin insert, less standard contacts S = Socket, 500 cycles B = Socket insert, less standard contacts					
Alternate Polarization	A, B, C, D, E, N = Normal					



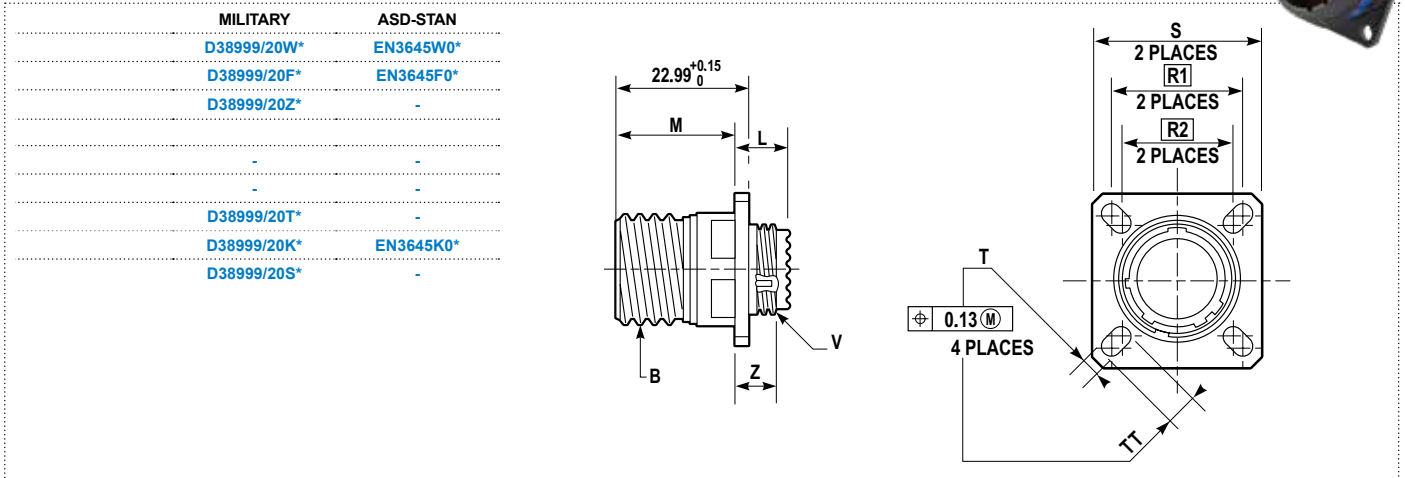
For recommended panel cut-out see reference information section

Series III Alternate Keyway Polarizations																				
Shell Size Code	Shell Size	Key and Keyway ID Letter	AR° BSC	BR° BSC	CR° BSC	DR° BSC	Shell Size Code	Shell Size	Key and Keyway Code	AR° BSC	BR° BSC	CR° BSC	DR° BSC	Shell Size Code	Shell Size	Key and Keyway ID Letter	AR° BSC	BR° BSC	CR° BSC	DR° BSC
A	9	N	105	140	215	265	B C D	11 13 15	N	95	141	208	236	E F G H J	17 19 21 23 25	N	80	142	196	293
		A	102	132	248	320			A	113	156	182	292			A	135	170	200	310
		B	80	118	230	312			B	90	145	195	252			B	49	169	200	244
		C	35	140	205	275			C	53	156	220	255			C	66	140	200	257
		D	64	155	234	304			D	119	146	176	298			D	62	145	180	280
		E	91	131	197	240			E	51	141	184	242			E	79	153	197	272

MIL-DTL-38999 SERIES III & EN3645 - METAL RECEPTACLES

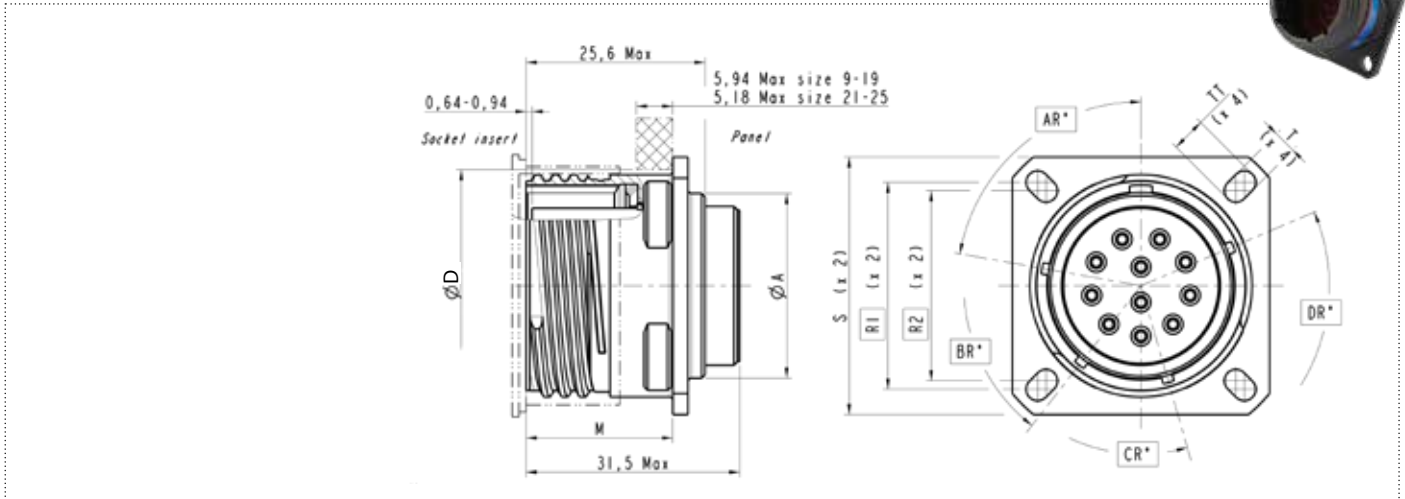
Overall dimensions

Square flange - Wall mount receptacle



Size	B thread class 2A .1P-.3L-TS (inch)	V thread-metric	M ^{+0 -0.13}	L _{MAX}	Z _{MAX}	S _{±0.3}	R1	R2	T _{±0.2}	TT _{±0.2}
Military										
A	.6250	M12x1-6g	20.83	11.91	3.89	23.8	18.26	15.09	3.25	5.49
B	.7500	M15x1-6g	20.83	11.91	3.89	26.2	20.62	18.26	3.25	4.93
C	.8750	M18x1-6g	20.83	11.91	3.89	28.6	23.01	20.62	3.25	4.93
D	1.0000	M22x1-6g	20.83	11.91	3.89	31.0	24.61	23.01	3.25	4.39
E	1.1875	M25x1-6g	20.83	11.91	3.89	33.3	26.97	24.61	3.25	4.93
F	1.2500	M28x1-6g	20.83	11.91	3.89	36.5	29.36	26.97	3.25	4.93
G	1.3750	M31x1-6g	20.07	12.70	4.65	39.7	31.75	29.36	3.25	4.93
H	1.5000	M34x1-6g	20.07	12.70	4.65	42.9	34.93	31.75	3.91	6.15
J	1.6250	M37x1-6g	20.07	12.70	4.65	46.0	38.10	34.93	3.91	6.15

Square flange - Box mount receptacle



Size	ØD _{MIN}	M ^{+0 -0.13}	ØA _{±0.13}	S _{±0.3}	R1	R2	T _{±0.2}	TT _{±0.2}
9	16.66	20.83	11	23.83	18.26	15.09	3.25	5.49
11	20.22	20.83	14.15	26.19	20.62	18.26	3.25	4.93
13	23.42	20.83	17.17	28.58	23.01	20.62	3.25	4.93
15	26.59	20.83	20.35	30.96	24.61	23.01	3.25	4.39
17	30.96	20.83	23.52	33.32	26.97	24.61	3.25	4.93
19	32.94	20.83	26.21	36.53	29.36	26.97	3.25	4.93
21	36.12	20.07	29.39	39.67	31.75	29.36	3.25	4.93
23	39.29	20.07	32.56	42.88	34.93	31.75	3.91	6.15
25	42.47	20.07	35.74	46.02	38.10	34.93	3.91	6.15

MIL-DTL-38999 SERIES III & EN3645 - COMPOSITE SHELLS

Composite for weight saving & high corrosion resistance

Description

Qualified to MIL-DTL-38999 Series III & EN3645 standard connectors offers a lightweight corrosion resistant connector with the same high performances features as the metal versions.



Main features

- Composite lightweight material:
 - 20 to 40% weight saving vs Aluminum.
 - 60 to 70% weight saving vs Stainless steel.
- Platings: Olive drab cadmium or Nickel.

SHELL STYLES OPTIONS

- Receptacle: Square Flange - Wall mount or Jam nut.
- Straight plug

G Ground plane proprietary option available (metal insert for use with high speed contacts, Coaxial, Twinax or Quadrx)

Technical characteristics

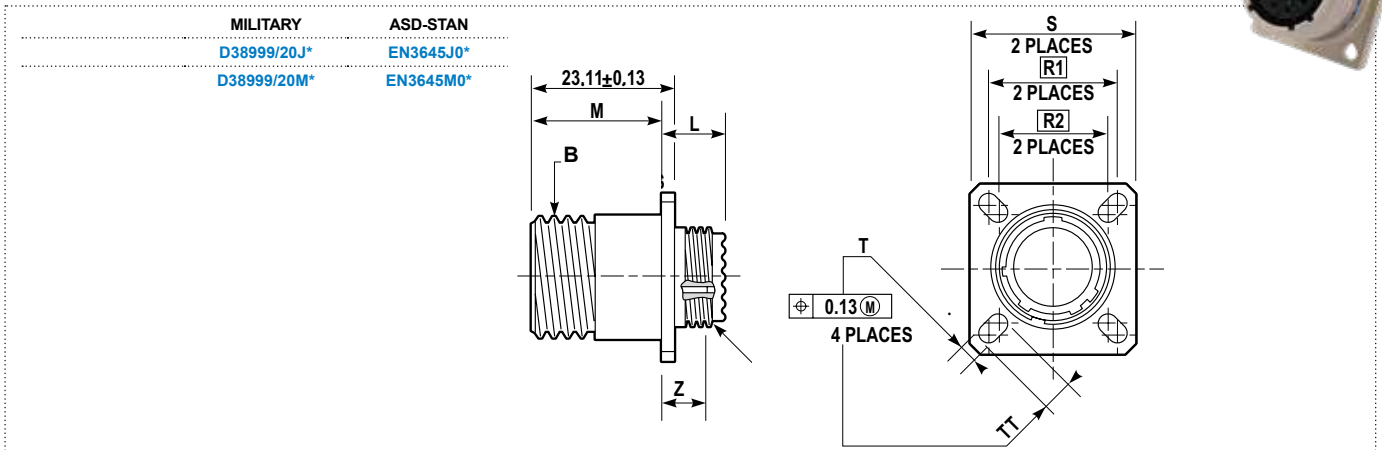
Plating	Composite	
	Olive drab cadmium	Nickel
	W	F
RoHS compliant	No	Yes ✓
Salt spray (hours)	2000	
Temperature (°C)	175	200 HD
Shell to shell continuity (mΩ) G	3	
EMI shielding (@ 10GHz)	-50dB	-65dB
Firewall F	No	

G 10mΩ for grounded version

HD High density 38999, Quadrx, differential Twinax arrangements not rated over 175°C

Overall dimensions

Square flange - Wall mount receptacle



Size	Military	B thread class 2A .1P-.3L-TS (inch)	V thread-metric	$\begin{smallmatrix} +0 \\ -0.13 \end{smallmatrix}$ M	L_{MAX}	Z_{MAX}	$S_{\pm 0.3}$	R1	R2	$T_{\pm 0.2}$	$TT_{\pm 0.2}$	V thread-metric
A		.6250	M12x1-6g	19.63	13.06	5.03	23.8	18.26	15.09	3.25	5.49	M12x1-6g
B		.7500	M15x1-6g	19.63	13.06	5.03	26.2	20.62	18.26	3.25	4.93	M15x1-6g
C		.8750	M18x1-6g	19.63	13.06	5.03	28.6	23.01	20.62	3.25	4.93	M18x1-6g
D		1.0000	M22x1-6g	19.63	13.06	5.03	31.0	24.61	23.01	3.25	4.39	M22x1-6g
E		1.1875	M25x1-6g	19.63	13.06	5.03	33.3	26.97	24.61	3.25	4.93	M25x1-6g
F		1.2500	M28x1-6g	19.63	13.06	5.03	36.5	29.36	26.97	3.25	4.93	M28x1-6g
G		1.3750	M31x1-6g	18.82	13.84	5.79	39.7	31.75	29.36	3.25	4.93	M31x1-6g
H		1.5000	M34x1-6g	18.82	13.84	5.79	42.9	34.93	31.75	3.91	6.15	M34x1-6g
J		1.6250	M37x1-6g	18.82	13.84	5.79	46.0	38.10	34.93	3.91	6.15	M37x1-6g

MIL-DTL-38999 SERIES III & EN3645 COMPOSITE SHELLS WEIGHTS

Weight, contacts included

In grams (ounces)

All weight measurements are for reference only, ± 15% average.

Arrangement	Wall mount Receptacle (00) / Military D38999/20		Jam nut Receptacle (07) / Military D38999/24		Plug (06) / Military D38999/26	
	Pin	Socket	Pin	Socket	Pin	Socket
9-35 / A35	7.3 (.26)	8.8 (.31)	9.89 (.35)	12.51 (.44)	7.39 (.26)	8.49 (.30)
9-98 / A98	4.7 (.16)	6.3 (.22)	10.61 (.37)	13.15 (.46)	8.48 (.30)	6.63 (.23)
11-35 / B35	7.8 (.27)	11.6 (.41)	13.26 (.47)	17.03 (.60)	9.78 (.34)	12.99 (.46)
11-98 / B98	7.8 (.27)	11.0 (.39)	13.26 (.47)	16.49 (.58)	9.83 (.35)	12.64 (.45)
13-08 / C8	10.5 (.37)	15.6 (.55)	18.60 (.67)	23.68 (.83)	14.85 (.52)	16.87 (.60)
13-35 / C35	10.7 (.38)	16.8 (.59)	17.40 (.61)	23.52 (.83)	15.03 (.53)	18.52 (.65)
13-98 / C98	10.7 (.38)	15.9 (.56)	17.40 (.61)	22.66 (.80)	14.87 (.52)	20.29 (.71)
15-05 / D5	14.2 (.50)	21.6 (.76)	21.97 (.77)	29.32 (1.03)	18.29 (.64)	24.00 (.85)
15-18 / D18	18.2 (.64)	23.0 (.81)	24.22 (.85)	32.61 (1.15)	18.69 (.66)	23.27 (.82)
15-35 / D35	14.6 (.51)	24.0 (.85)	22.29 (.79)	32.04 (1.13)	25.40 (.90)	28.36 (1.00)
17-06 / E6	22.2 (.78)	34.7 (1.22)	28.18 (.99)	40.70 (1.44)	23.13 (.82)	40.19 (1.42)
17-26 / E26	21.7 (.77)	33.8 (1.19)	27.77 (.98)	39.84 (1.40)	22.73 (.80)	22.86 (.81)
17-35 / E35	21.8 (.77)	36.7 (1.3)	27.82 (.98)	42.79 (1.51)	22.77 (.80)	34.43 (1.21)
19-11 / F11	22.5 (.79)	36.2 (1.28)	34.11 (1.20)	47.81 (1.69)	27.31 (.96)	41.00 (1.45)
19-32 / F32	22.7 (.80)	37.9 (1.34)	34.29 (1.21)	49.54 (1.75)	27.49 (.97)	42.73 (1.51)
19-35 / F35	22.7 (.80)	41.2 (1.45)	34.39 (1.21)	52.85 (1.86)	27.58 (.97)	46.04 (1.62)
21-11 / G11	31.4 (1.11)	51.8 (1.83)	45.72 (1.61)	66.09 (2.33)	36.96 (1.30)	53.04 (1.87)
21-16 / G16	29.6 (1.04)	47.6 (1.68)	41.12 (1.45)	59.22 (2.09)	35.02 (1.23)	53.12 (1.87)
21-35 / G35	29.2 (1.03)	52.8 (1.86)	40.80 (1.44)	64.39 (2.27)	34.74 (1.22)	51.04 (1.80)
21-41 / G41	29.5 (1.04)	48.9 (1.72)	41.08 (1.45)	60.44 (2.13)	34.97 (1.23)	40.73 (1.434)
23-21 / H21	34.8 (1.23)	58.3 (2.05)	46.40 (1.64)	69.85 (2.46)	41.50 (1.46)	64.91 (2.29)
23-35 / H35	34.5 (1.22)	63.4 (2.24)	46.08 (1.63)	75.02 (2.65)	41.18 (1.45)	60.97 (2.15)
23-53 / H53	35.0 (1.23)	64.1 (2.26)	46.58 (1.64)	71.12 (2.51)	41.59 (1.47)	63.46 (2.24)
25-04 / J4	42.1 (1.49)	62.1 (2.19)	55.47 (1.96)	81.42 (2.87)	48.57 (1.71)	68.50 (2.41)
25-19 / J19	44.4 (1.57)	78.3 (2.76)	57.74 (2.04)	91.67 (3.23)	50.84 (1.79)	76.71 (2.71)
25-20 / J20	50.3 (1.77)	80.8 (2.85)	62.01 (2.19)	91.90 (3.24)	51.85 (1.83)	82.01 (2.90)
25-35 / J35	41.9 (1.48)	76.6 (2.70)	53.62 (1.90)	88.32 (3.11)	48.30 (1.70)	83.00 (2.93)
25-61 / J61	42.1 (1.48)	71.5 (2.52)	53.31 (1.88)	83.20 (2.93)	47.94 (1.69)	77.84 (2.75)

MIL-DTL-38999 SERIES III & EN3645 - CROSS REFERENCES

Please remember that these references are not strictly the same: some production test or dimensions can be different regarding the standard they are compliant too. Please refer to the MIL-DTL-38999 SERIES III, EN3645, section for more informations

Material	Shell style	Plating	Military	ASD-STAN
Composite	Wall mount receptacle	Olive drab cadmium	D38999/20J*A D38999/20J*B D38999/20J*P D38999/20J*S	EN3645J0*N *A EN3645J0*N *B EN3645J0*N *M EN3645J0*N *F
		Nickel	D38999/20M*A	EN3645M0*N *A
	Jam nut receptacle	Olive drab cadmium	D38999/24J*A	EN3645J7*N *A
		Nickel	D38999/24M*A	EN3645M7*N *A
	Straight plug	Olive drab cadmium	D38999/26J*A	EN3645J6*N *A
		Nickel	D38999/26M*A	EN3645M6*N *A
Aluminum	Wall mount receptacle	Olive drab cadmium	D38999/20W*A D38999/20W*B D38999/20W*P D38999/20W*S	EN3645W0*N *A EN3645W0*N *B EN3645W0*N *M EN3645W0*N *F
		Nickel	D38999/20F*A	EN3645F0*N *A
		Black zinc nickel	D38999/20Z*A	
		Durmalon	D38999/20T*A	
	Jam nut receptacle	Olive drab cadmium	D38999/24W*A	EN3645W7*N *A
		Nickel	D38999/24F*A	EN3645F7*N *A
		Black zinc nickel	D38999/24Z*A	
		Durmalon	D38999/24T*A	
	Straight plug	Olive drab cadmium	D38999/26W*A	EN3645W6*N *A
		Nickel	D38999/26F*A	EN3645F6*N *A
		Black zinc nickel	D38999/26Z*A	
		Durmalon	D38999/26T*A	
Stainless steel	Wall mount receptacle	Passivated	D38999/20K*A D38999/20K*B D38999/20K*P D38999/20K*S	EN3645K0*N *A EN3645K0*N *B EN3645K0*N *M EN3645K0*N *F
		Nickel plated	D38999/20S*A	
	Jam nut receptacle	Passivated	D38999/24K*A	EN3645K7*N *A
		Nickel plated	D38999/24S*A	
	Straight plug	Passivated	D38999/26K*A	EN3645K6*N *A
		Nickel plated	D38999/26S*A	