

8D - D38999 Composite Series



Composite Series

MIL-DTL-38999 Series III

8D - D38999 Composite Series



Connector part numbers

Basic Series	8D	0	-	11	J	35	P	N	-	-	L
Shell style: 0: Square flange receptacle 5: Plug with RFI shielding											
Type: None: Connectors with standard crimp contacts. L: Receptacle with long PC tail (male and female size #22D, #20). C: Receptacle with short PC tail (male and female #22D, #20, #16). S: Receptacle with specific PC tail (male et female #22D) W: Receptacle with male contacts #22D for wire wrap (3 wraps) T: Receptacle with male contacts #20 for wire wrap (2 wraps) P: Receptacle with solder cup (male and female size #22D; male #16 & #12; female #16 & #12 and male female #20 please consult us)											
Shell size: 09, 11, 13, 15, 17, 19, 21, 23, 25											
Plating: J: Olive drab cadmium M: Nickel X: Without plating											
Contact layout: See pages 11 to 14											
Contact type: P: Pin (500 mating/unmating) H: Pin (1500 mating/unmating) A: Connector supplied less pin contact or with specific contacts (connector marking: A + orientation) S: Socket (500 mating/unmating) J: Socket (1500 mating/unmating) B: Connector supplied less socket contact or with specific contacts (connector marking: B + orientation)											
Orientation: N, A, B, C, D, E (see page 65)											
Specification: 046: Tinned straight PC tail 251: Connector provided with power contacts (layouts with contact #8) 022: Fuel tank											
Special custom: None: Standard plastic cap M: Antistatic plastic cap L: For P or S contact type only, connectors delivered without contacts, connectors marking P or S plus orientation.											

MIL-DTL-38999 part numbers*

Basic Series	D38999	20	M	B	35	P	N	L
Shell style: 20: Square flange receptacle 26: Plug with RFI shielding.								
Plating: J: Olive drab cadmium M: Nickel								
Shell size: 09=A, 11=B, 13=C, 15=D, 17=E, 19=F, 21=G, 23=H, 25=J								
Contact layout: See page 15 for layout according to MIL-DTL-38999								
Contact type: P: Pin (500 mating/unmating) H: Pin (1500 mating/unmating) A: Connector supplied less pin contact or with specific contacts (connector marking: A + orientation) S: Socket (500 mating/unmating) J: Socket (1500 mating/unmating) B: Connector supplied less socket contact or with specific contacts (connector marking: B + orientation)								
Orientation: N, A, B, C, D, E (see page 65)								
L: For P or S contact type only, connector deleivered without contacts, connector marking P or S (without L)								

* Note: To place an order of MIL connectors delivered without MIL removable crimp contacts and keep P or S plus orientation marking, it must be specify clearly on the order (by adding a suffix L at the end of the P/N or specified in comment).

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BACC part numbers

Basic Series: BACC63CT: 8D5*M (composite plug) BACC63CU: 8D0*M (composite square flange receptacle)	BACC63CT	13	98	P	N	H
Shell size: 09=A, 11=B, 13=C, 15=D, 17=E, 19=F, 21=G, 23=H, 25=J						
Contact layout: See page 15 for layout according to BACC						
Contact type: P: Pin A: Connector supplied less pin contact or with specific contacts (connector marking: A + orientation) S: Socket B: Connector supplied less socket contact or with specific contacts (connector marking: B + orientation)						
Orientation: N, A, B, C, D, E (see page 65)						
H: Without contacts & without filler plug = L -: Empty with contacts						

EN3645 part numbers

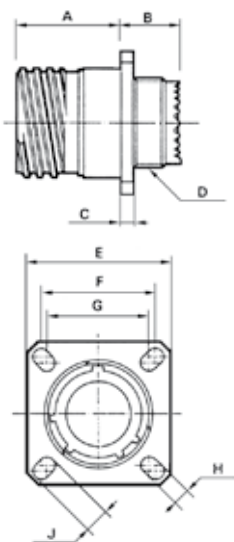
Basic Series	EN3645	J	6	G	N	35	B	N
Plating: J: Olive drab cadmium M: Nickel								
Shell style: 0: Square flange receptacle 6: Plug								
Shell size: 09=A, 11=B, 13=C, 15=D, 17=E, 19=F, 21=G, 23=H, 25=J								
Grounding: N: Standard insert not grounded								
Contact layout: See page 15 for layout according to EN3645								
Contact type: A: Connector supplied less pin contact B: Connector supplied less socket contact F: Socket M: Pin								
Orientation: N, A, B, C, D, E (see page 65)								

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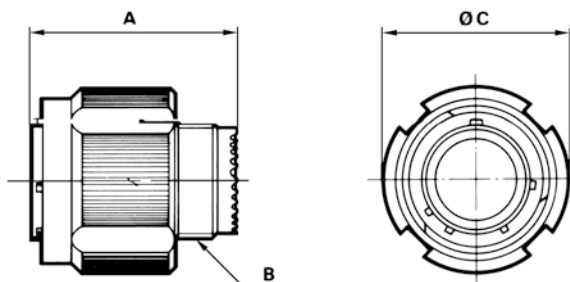
Dimensions

Receptacle type 0



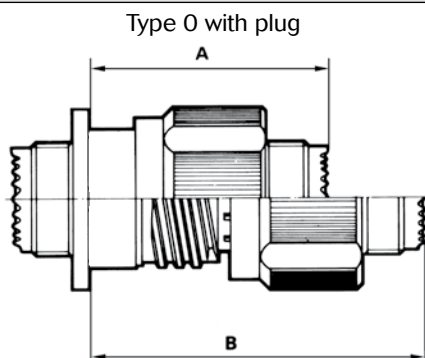
Shell size	A Max	B Max	C Max	D Thread	E ^{±0.3}	F	G	H ^{±0.2}	J ^{±0.2}
09 (A)	19.65	11.96	3.65	M12 x 1-6g	23.8	18.26	15.09	3.25	5.49
11 (B)				M15 x 1-6g	26.2	20.62	18.26		4.93
13 (C)				M18 x 1-6g	28.6	23.01	20.62		
15 (D)				M22 x 1-6g	31	24.61	23.01		
17 (E)				M25 x 1-6g	33.3	26.97	24.61		4.93
19 (F)			3.7	M28 x 1-6g	36.5	29.36	26.97		
21 (G)	18.85	12.76	4.35	M31 x 1-6g	39.7	31.75	29.36	3.91	6.15
23 (H)			4.4	M34 x 1-6g	42.9	34.93	31.75		
25 (J)				M37 x 1-6g	46	38.1	34.93		

Plug type 5



Shell size	A Max.	B thread	C Max.
09 (A)	31.00	M12 x 1-6g	21.80
11 (B)	31.00	M15 x 1-6g	25.00
13 (C)	31.00	M18 x 1-6g	29.40
15 (D)	31.00	M22 x 1-6g	32.50
17 (E)	31.00	M25 x 1-6g	35.70
19 (F)	31.00	M28 x 1-6g	38.50
21 (G)	31.00	M31 x 1-6g	41.70
23 (H)	31.00	M34 x 1-6g	44.90
25 (J)	31.00	M37 x 1-6g	48.00

Mated connectors



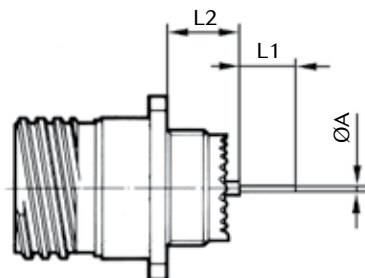
Shell size	A Max.	B Max.
09 (A)	37.00	52.30
11 (B)	37.00	52.30
13 (C)	37.00	52.30
15 (D)	37.00	52.30
17 (E)	37.00	52.30
19 (F)	37.00	52.30
21 (G)	36.00	51.30
23 (H)	36.00	51.30
25 (J)	36.00	51.30

Note: All dimensions are in millimeters (mm)

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Receptacle with straight PC tail contacts



		Shell size			09 (A)	11 (B)	13 (C)	15 (C)	17 (E)	19 (F)	21 (G)	23 (H)	25 (J)
		Contact size	Contact type	PC tail type									
A		#22D	M & F	L & C	0.70								
		#22D	M & F	S	0.50								
		#20	M & F	C	0.70								
		#16	M & F	C	1.15								
L1		#22D	M & F	L	8.50								
		#22D	M & F	C	4.00								
		#22D	M & F	S	5.00								
		#20	M & F	C	5.00								
		#16	M & F	C	5.00								
L2	Min	#22D	M	L & C	9.48						9.59		
	Max	#22D	M	L & C	10.38						10.48		
	Min	#22D	F	L & C	9.15						9.26		
	Max	#22D	F	L & C	10.58						10.69		
	Min	#22D	M	S	9.65						9.76		
	Max	#22D	M	S	10.55						10.65		
	Min	#22D	F	S	9.65						9.76		
	Max	#22D	F	S	10.55						10.65		
	Min	#20	M	C	9.65						9.76		
	Max	#20	M	C	10.55						10.65		
	Min	#20	F	C	9.65						9.76		
	Max	#20	F	C	10.55						10.65		
	Min	#16	M	C	9.65						9.76		
	Max	#16	M	C	10.55						10.65		
	Min	#16	F	C	9.65						9.76		
	Max	#16	F	C	10.55						10.65		

M: Male contact F: Female contact L: Long PC tail C: Short PC tail S: Specific PC tail

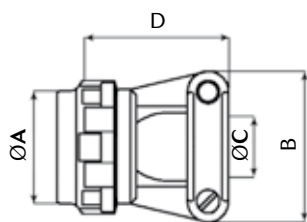
Note: All dimensions are in millimeters (mm)

8D - D38999 Composite Series

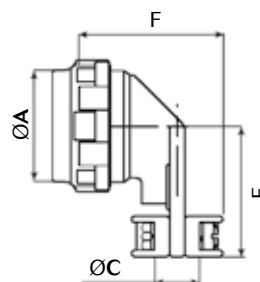


Backshells

Straight cable clamp (Type 91)



90° cable clamp (Type 92)



Shell size	ØA Max	B Max	C Max	D Max	E	F
09	21.80	24.90	5.55	21.25	22.20	26.95
11	25.00	26.00	6.70	24.30	23.80	27.95
13	29.40	30.50	8.75	27.95	26.20	30.00
15	32.50	33.00	11.70	27.95	28.60	33.00
17	35.70	36.10	13.85	31.25	33.30	35.05
19	38.50	38.60	15.60	35.80	34.95	36.85
21	41.70	41.65	17.75	38.35	38.10	39.15
23	44.90	45.00	19.80	42.15	41.30	41.15
25	48.00	48.00	21.60	44.70	44.45	42.95

Basic Series

M85049

91

11

M

Backshell type:

91: Straight cable clamp

92: 90° cable clamp

Shell size:

09, 11, 13, 15, 17, 19, 21, 23, 25

Plating:

J: Olive drab cadmium over electroless nickel

M: Electroless nickel

T: Without plating

Note: All dimensions are in millimeters (mm)

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Connectors weight

	With contacts				Without contact			
	Plug (type 5)		Receptacle (type 0)		Plug (type 5)		Receptacle (type 0)	
	Male	Female	Male	Female	Male	Female	Male	Female
09-35	8.5	10.1	7.8	9.4	8.1	8.6	7.4	7.9
09-98	8.5	9.8	7.8	9.1	8.1	8.6	7.4	7.9
11-01	12.8	15.7	10.4	13.3	12.1	14.1	9.7	11.7
11-02	11.5	14.1	09.3	11.8	10.9	12.5	08.7	10.3
11-04	12.6	15.7	10.2	13.3	12.0	14.1	9.7	11.7
11-05	12.6	15.8	10.2	13.4	11.9	13.8	9.5	11.5
11-22	11.4	13.8	09.1	11.6	11.1	12.8	08.8	10.6
11-35	12.5	16.0	10.1	13.6	11.6	12.8	9.2	10.4
11-80	15.25	18.6	13.40	10.4	10.75	11.63	08.90	09.4
11-98	12.5	15.3	10.1	12.9	11.7	12.8	9.3	10.5
11-99	11.8	15.0	09.6	12.8	10.8	12.2	08.6	10.0
13-04	17.2	20.9	13.7	17.5	15.6	17.9	12.4	14.3
13-08	17.6	22.8	14.1	19.2	16.5	19.6	12.9	16.1
13-26	17.9	23.6	14.4	20.1	16.2	18.9	12.7	15.4
13-35	17.4	23.1	13.8	19.6	15.8	17.6	12.3	14.1
13-98	17.2	21.8	13.7	18.3	15.8	17.9	12.3	14.3
15-05	21.4	26.7	16.6	21.9	19.8	22.8	15.0	18.0
15-15	22.2	29.3	17.4	24.5	19.9	23.0	15.1	18.1
15-18	22.4	31.3	17.6	26.5	19.9	24.0	15.0	19.2
15-19	22.0	29.6	17.1	24.8	19.2	22.0	14.5	17.2
15-35	22.0	31.3	17.2	26.5	19.4	22.0	14.6	17.2
15-97	21.8	28.9	17.1	24.1	19.4	22.6	14.7	17.8
17-02	26.51	38.85	25.23	37.57	19.35	22.35	18.07	21.07
17-06	25.9	35.5	23.2	32.8	21.9	25.9	19.2	23.2
17-08	24.9	33.6	22.2	30.1	22.4	27.4	19.7	24.7
17-26	25.5	36.3	22.8	33.6	21.8	25.9	19.2	23.1
17-35	25.7	39.3	23.0	36.6	21.9	25.5	19.2	22.8
17-75	31.3	42.6	28.6	39.9	22.3	28.6	19.6	25.9
17-99	25.5	36.1	22.8	33.4	22.0	26.1	19.3	23.4
19-11	32.1	45.7	26.1	39.7	28.7	37.1	22.7	31.1
19-32	31.3	44.7	25.3	38.7	26.8	31.9	20.8	25.9
19-35	31.6	48.1	25.6	42.0	27.1	31.6	21.0	25.6
21-11	38.0	57.9	32.8	52.6	30.8	40.3	25.5	35.1
21-16	35.1	50.4	29.9	45.2	30.2	37.9	24.9	32.7
21-35	35.4	56.1	30.1	50.8	29.9	36.3	24.6	31.1
21-39	36.8	57.1	31.5	51.9	31.0	40.8	25.7	35.5
21-41	35.3	52.7	30.1	47.5	29.6	36.3	24.3	31.0
21-48	42.41	62.40	37.71	57.70	29.3	36.2	24.6	31.5
21-75	47.3	64.2	42.6	59.50	29.3	36.2	24.6	31.5
23-21	43.1	66.3	38.0	61.2	36.5	49.9	31.5	44.8
23-35	41.4	67.5	36.3	62.5	34.4	42.5	29.3	37.5
23-53	41.5	63.6	36.4	58.6	34.1	42.4	29.0	37.4
23-55	42.2	65.3	42.2	60.2	34.5	43.3	29.4	38.2
25-07	53.6	90.05	49.0	84.85	37.8	51.8	33.2	46.6
25-11	59.08	81.60	54.48	77.00	40.8	53.8	36.2	49.2
25-19	51.7	83.7	46.6	78.6	39.2	53.3	34.0	48.2
25-24	51.2	82.5	46.1	77.4	39.6	54.0	34.4	48.9
25-29	49.5	78.5	44.4	73.4	40.5	55.9	35.4	50.7
25-35	47.3	80.1	42.2	75.0	38.4	48.1	33.2	43.0
25-37	49.27	80.36	45.47	76.16	37.8	51.50	34.0	47.30
25-44	69.64	93.70	65.04	94.65	36.1	45.80	31.5	46.75
25-43	49.6	80.2	44.4	75.1	40.1	55.4	35.0	50.3
25-46	51.9	75.7	46.7	70.1	37.2	47.4	32.1	42.2
25-61	46.6	73.4	41.5	68.2	38.1	48.9	32.9	43.8
25-08	72.9	104.8	67.8	99.6	36.9	48.8	31.8	43.6
25-20	57.9	88.2	52.8	83.0	36.4	46.6	31.3	41.5
25-04	50.4	80.2	45.3	75.0	41.2	54.8	36.1	49.6

Weight in gram (+/- 15%)

Mouser Electronics

Authorized Distributor

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