

Insert Availability

8	10	12	14	16	18	20
8-2* 	10-6 	12-10 	14-12† 	16-23* 	18-32 	20-41
8-3* 	10-7 		14-15 	16-26 		
8-33 			14-19 			
8-4* 						
8-98 	10-2 	12-3 	14-5 	16-8 	18-11 	20-16

NOTES

* This insert arrangement is not included in B.S. spec., but is available and listed in MIL-C-26482.

† Due to the arrangement of contacts in the 14-12 insert arrangement it is classified, for current derating, in the shell size range 18-24.

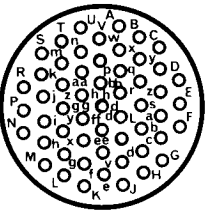
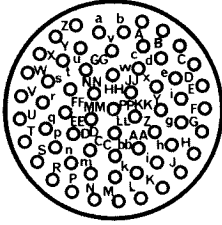
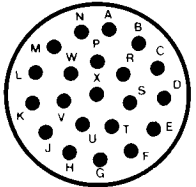
Lettering of inserts shown above corresponds to view of front (mating surface of pin inserts or rear face (cable accessory end) of socket inserts.

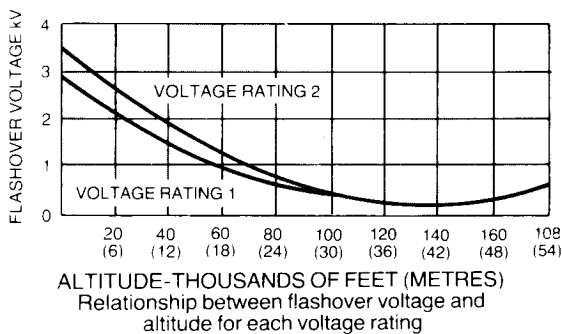
KEY ● No 16 size contacts
○ No 20 size contacts

CURRENT RATING

Maximum current per individual contact (in isolation) at a maximum ambient temperature of 85°C:
Size 20 contact 7.5A Size 16 contact 13.0A
The performance of 62GB Series connectors at all times exceeds the maximum continuous bunched rating of the appropriate size wire, or cable of equivalent temperature rating. This bunched rating is therefore the determining factor. In the case of mixed loadings, the greatest individual load shall be the bunched loading. In any combination of ambient temperature plus temperature rise due to current flow through the contacts, the maximum connector internal hot spot temperature of 125°C must not be exceeded.

That is, when only one contact per connector is loaded.

		VOLTAGE RATINGS			
22	24	ALTITUDE	D.C. WORKING VOLTAGE	A.C. WORKING VOLTAGE R.M.S.	PROOF VOLTAGE D.C. OR A.C. PEAK
22-55 	24-61 	Rating 1 Sea level 300 mb at 20°C 8,500m (27,800 ft) 44 mb at 20°C 20,000m (66,000 ft)	700 550 330	500 390 230	2100 1100 660
22-21  <p>† Available to special order only</p>		Rating 2 Sea level 300 mb at 20°C 8,500m (27,800 ft) 44 mb at 20°C 20,000m (66,000 ft)	1200 650 380	850 460 270	3000 1300 760



VOLTAGE RATINGS

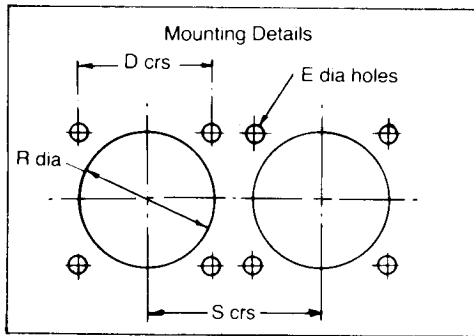
Two categories of voltage rating are specified in BS9522 F0017, F0038 and N0001.

Rating 1 (700V d.c. working at sea-level)
 Applicable to the high contact density inserts shown in the upper section of the insert availability diagram above.

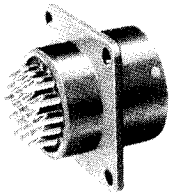
Rating 2 (1200V d.c. working at sea-level)
 Applicable to the inserts shown in the lower section of the insert availability diagram.

Altitude derating. Information on voltage derating for operation at altitudes above sea-level can be obtained from the flashover voltage altitude curves on the left.

Box Mounting Receptacles

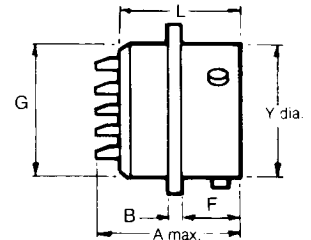
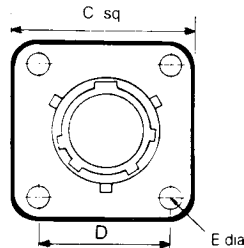


12E



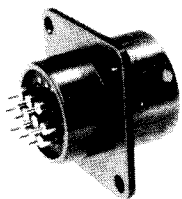
62GB-12E

**BS9522 - F0017 - C2097
MIL-C-26482 MS3112E**



Shell Size	A max.	B ± 0.005 (± 0.13)	C max sq.	D TP sq.	E ± 0.010 (± 0.254)	F ± 0.005 (± 0.13)	G dia. max.	L	Y dia. max.
08	0.978	0.062	0.817	0.594	0.120	0.445	0.434	0.800	0.473
	24.84	1.58	20.75	15.09	3.05	11.3	11.02	20.32	12.02
10	0.978	0.062	0.942	0.719	0.120	0.445	0.558	0.800	0.590
	24.84	1.58	23.93	18.26	3.05	11.3	14.17	20.32	14.99
12	0.978	0.062	1.036	0.812	0.120	0.445	0.683	0.800	0.750
	24.84	1.58	26.32	20.63	3.05	11.3	17.35	20.32	19.05
14	0.978	0.062	1.130	0.906	0.120	0.445	0.808	0.800	0.875
	24.84	1.58	28.70	23.10	3.05	11.3	20.52	20.32	22.23
16	0.978	0.062	1.223	0.969	0.120	0.445	0.933	0.800	1.000
	24.84	1.58	31.07	24.61	3.05	11.3	23.70	20.32	25.4
18	0.978	0.062	1.317	1.062	0.120	0.445	1.057	0.800	1.125
	24.84	1.58	33.45	26.58	3.05	11.3	26.85	20.32	28.58
20	1.048	0.080	1.442	1.156	0.120	0.555	1.182	0.875	1.250
	26.62	2.03	36.63	29.36	3.05	14.10	30.02	22.23	31.75
22	1.048	0.080	1.567	1.250	0.120	0.555	1.307	0.875	1.375
	26.62	2.03	39.80	31.75	3.05	14.10	33.20	22.23	34.93
24	1.048	0.080	1.692	1.375	0.147	0.590	1.432	0.875	1.500
	26.62	2.03	42.98	34.93	3.74	14.99	36.37	22.23	38.1

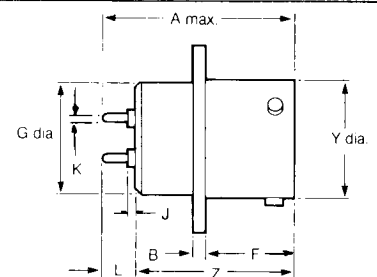
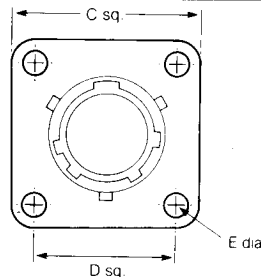
12E (219)



62GB-12E (219)

BS9522 - F0017 - C2262

4-hole flange mounting with plain shell with film wire terminations



Shell Size	A max.	B ± 0.005 (± 0.13)	C max sq.	D TP sq.	E dia. ± 0.010	F ± 0.005 (± 0.13)	G dia. max.	J ± 0.020 (± 0.51)	K min max.	L max.	min	Y dia. max.	Z	
08	0.982	0.062	0.817	0.594	0.120	0.445	0.434	0.089	0.030	0.028	0.198	0.166	0.473	0.800
	24.95	1.58	20.75	15.09	3.05	11.3	11.02	2.26	0.76	0.70	5.03	4.22	12.02	20.32
10	0.982	0.062	0.942	0.719	0.120	0.445	0.558	0.089	0.030	0.028	0.198	0.166	0.590	0.800
	24.95	1.58	23.93	18.26	3.05	11.3	14.17	2.26	0.76	0.70	5.03	4.22	14.99	20.32
12	0.982	0.062	1.036	0.812	0.120	0.445	0.683	0.089	0.030	0.028	0.198	0.166	0.750	0.800
	24.95	1.58	26.32	20.63	3.05	11.3	17.35	2.26	0.76	0.70	5.03	4.22	19.05	20.32
14	0.982	0.062	1.130	0.906	0.120	0.445	0.808	0.089	0.030	0.028	0.198	0.166	0.875	0.800
	24.95	1.58	28.70	23.10	3.05	11.3	20.52	2.26	0.76	0.70	5.03	4.22	22.23	20.32
16	0.982	0.062	1.223	0.969	0.120	0.445	0.933	0.089	0.030	0.28	0.198	0.166	1.000	0.800
	24.95	1.58	31.07	24.61	3.05	11.3	23.70	2.26	0.76	0.70	5.03	4.22	25.4	20.32
18	0.982	0.062	1.317	1.062	0.120	0.445	1.057	0.089	0.030	0.028	0.198	0.166	1.125	0.800
	24.95	1.58	33.45	26.58	3.05	11.3	26.85	2.26	0.76	0.70	5.03	4.22	28.58	20.32
20	1.057	0.080	1.442	1.156	0.120	0.555	1.182	0.076	0.030	0.028	0.185	0.153	1.250	0.875
	26.85	2.03	36.63	29.36	3.05	14.10	30.02	1.93	0.76	0.70	4.70	3.89	31.75	22.23
22	1.057	0.080	1.567	1.250	0.120	0.555	1.307	0.076	0.030	0.028	0.185	0.153	1.375	0.875
	26.85	2.03	39.80	31.75	3.05	14.10	33.20	1.93	0.76	0.70	4.70	3.89	34.93	22.23
24	1.057	0.080	1.692	1.375	0.147	0.590	1.432	0.076	0.030	0.028	0.185	0.153	1.500	0.875
	26.85	2.03	42.98	34.93	3.74	14.99	36.37	1.93	0.76	0.70	4.70	3.89	38.1	22.23