




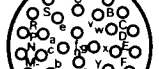













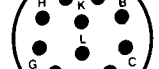
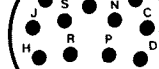


# Insert Availability

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

## 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

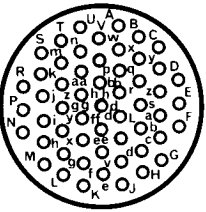
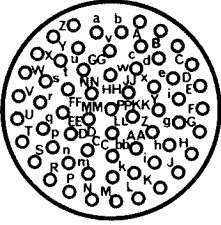
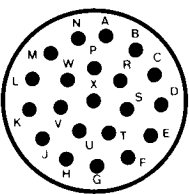
## CURRENT RATING

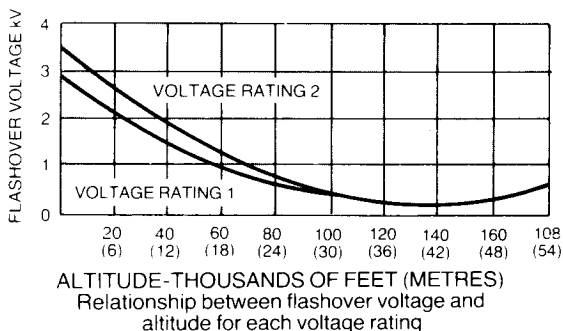
Maximum current per individual contact (in isolation) at a maximum ambient temperature of 85°C:

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



## VOLTAGE RATINGS

Two categories of voltage rating are specified in BS9522 FOO17, FOO38 and NOOO1.

### 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.

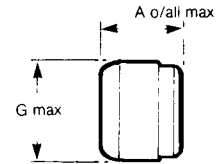
**Altitude derating.** Information on voltage derating for operation at altitudes above sea-level can be obtained from the flashover voltage altitude curves on the left.

**584**



**62GB – 584 – XX – XXS or P**  
**BS 9522 FOO 17 A2102**

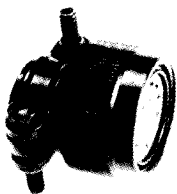
Grommet seal and nut. Provides an environmental seal for the exposed solder buckets in the openback class T shells.



**Suffix XX – XXS or P enables grommet to be matched to the insert arrangement.**

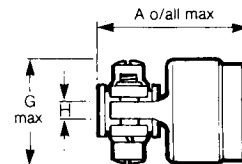
Shell Size	A	G max
08	0.545	0.561
	13.84	14.25
10	0.545	0.686
	13.84	17.43
12	0.545	0.811
	13.84	20.60
14	0.545	0.936
	13.84	23.78
16	0.545	1.061
	13.84	26.95
18	0.545	1.186
	13.84	30.13
20	0.545	1.311
	13.84	33.30
22	0.545	1.436
	13.84	36.75
24	0.501	1.561
	12.73	39.65

**585**



**62GB – 585 – XX – XXS or P**  
**BS9522 FOO 17 A2103**

Grommet and nut with strain relief clamp. The clamp prevents the flexing of the wires in the immediate vicinity of the risers, so avoiding the risk of leaks.



**Suffix XX – XXS or P enables grommet to be matched to the insert arrangement.**

Shell Size	A max	G max	H max
08	0.991	0.828	0.161
	25.17	21.03	4.09
10	0.991	0.891	0.193
	25.17	22.63	4.90
12	0.991	1.016	0.317
	25.17	25.81	8.05
14	0.965	1.141	0.380
	24.51	28.98	9.65
16	1.105	1.203	0.505
	28.07	30.56	12.83
18	1.105	1.426	0.630
	28.07	36.22	16.00
20	1.285	1.426	0.630
	32.64	36.22	16.00
22	1.285	1.567	0.755
	32.64	39.80	19.18
24	1.373	1.735	0.805
	34.88	44.07	20.45