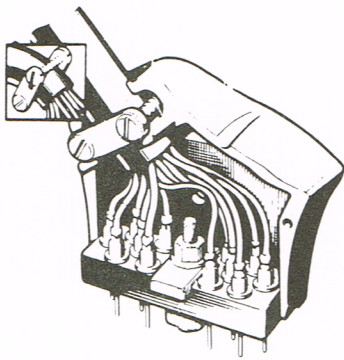
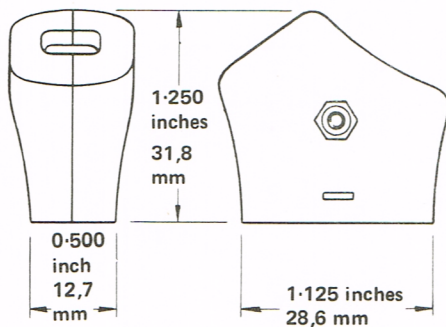


L1588/C Cable outlet

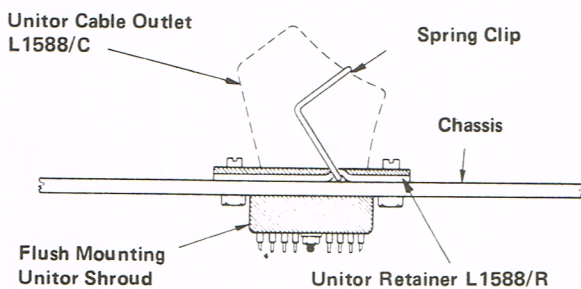


This moulded cable outlet accommodates any member of the Miniature Unitor range, male or female permitting cable connection to the appropriate fixed unit.

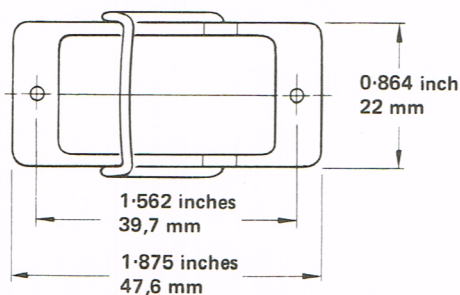


Humidity: H5 (DEF - 5011)
Cable entry size: 0.375 x 0.250 inch 9,5 x 6,4 mm
Material: Butyrate
Weight (average): 9,2 g 0.32 oz

L1588/R Retainer



This retainer is intended for use with flush mounted fixed members, and is secured between the flange of the unitor shroud and the panel, using common fixing screws.

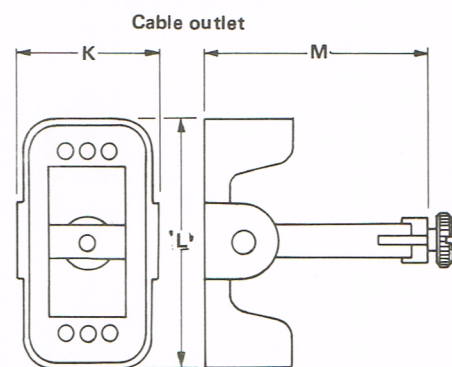
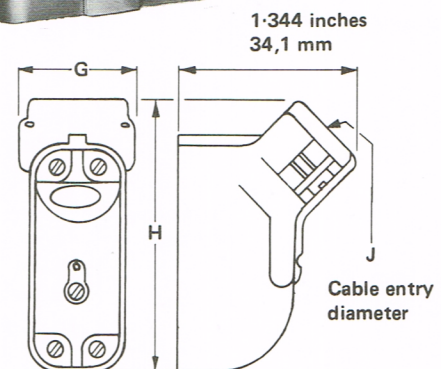
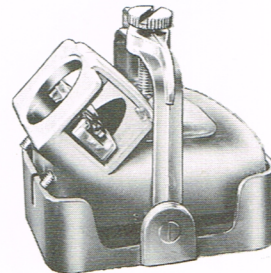


Materials: Base-plate, brass, cadmium-plated
 Retaining clip, spring steel
Weight (average): 5,1 g 0.18 oz

Unitors, pattern 102, cable outlets and shroud retainers

L653/C3	Cable outlet	For use with
L653/R3	Shroud retainer	4-pole unitor
L654/C3	Cable outlet	For use with
L654/R3	Shroud retainer	8-pole unitor
L655/C3	Cable outlet	For use with
L655/R3	Shroud retainer	12-pole unitor
L656/C3	Cable outlet	For use with
L656/R3	Shroud retainer	18-pole unitor
L657/C3	Cable outlet	For use with
L657/R3	Shroud retainer	25-pole unitor (including L1328 series)

Scale 1:2



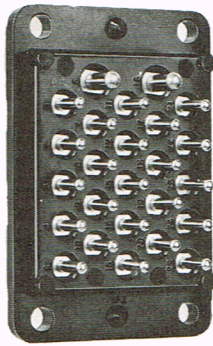
Shroud retainer

Material:	Aluminium alloy			
Weights (average):	L653/C3	21,2 g	0.75 oz	
	L653/R3	12,8 g	0.45 oz	
	L654/C3	22,7 g	0.81 oz	
	L654/R3	14 g	0.50 oz	
	L655/C3	27,9 g	0.99 oz	
	L655/R3	15,5 g	0.55 oz	
	L656/C3	31,2 g	1.10 oz	
	L656/R3	17,2 g	0.61 oz	
	L657/C3	38 g	1.34 oz	
	L657/R3	19,2 g	0.68 oz	

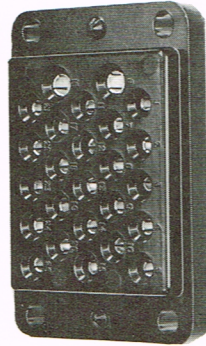
	4-pole		8-pole		12-pole		18-pole		25-pole	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
G	0.813	20,6	0.906	23	0.969	24,6	0.969	24,6	1.313	33,3
H	1.906	48,4	1.906	48,4	1.906	48,4	2.313	58,7	2.047	52
J	0.313	7,9	0.438	11,1	0.484	12,3	0.578	14,7	0.676	17,2
K	0.875	22,2	1.031	26,2	1.281	32,5	1.281	32,5	1.641	41,7
L	1.750	44,5	1.812	46	1.812	46	2.281	57,9	2.063	52,4
M	1.719	43,7	1.719	43,7	1.812	46	1.812	46	1.812	46

Unitors, pattern 102 connectors

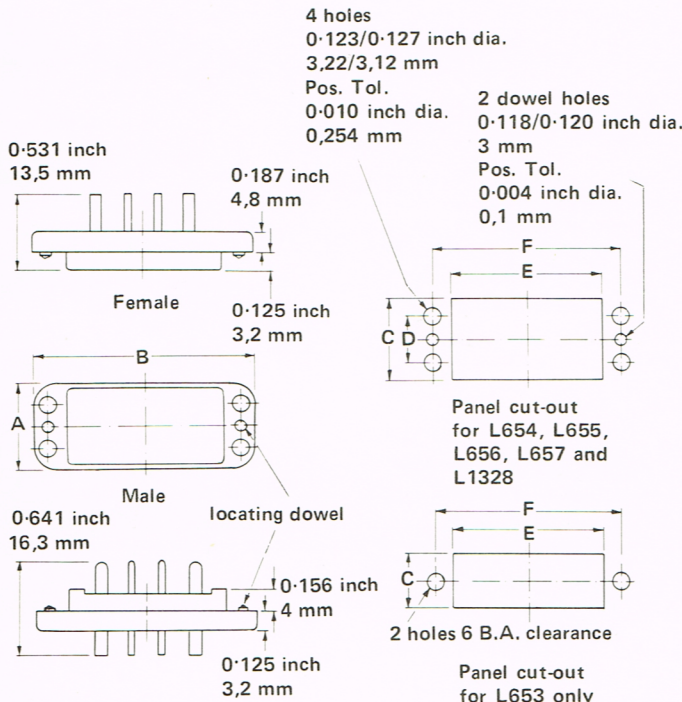
L653/P 4-pole, male	L656/P 18-pole, male
L653/S 4-pole, female	L656/S 18-pole, female
L654/P 8-pole, male	L657/P 25-pole, male
L654/S 8-pole, female	L657/S 25-pole, female
L655/P 12-pole, male	L1328/P 25-pole, male
L655/S 12-pole, female	L1328/S 25-pole, female



L657/P



L657/S

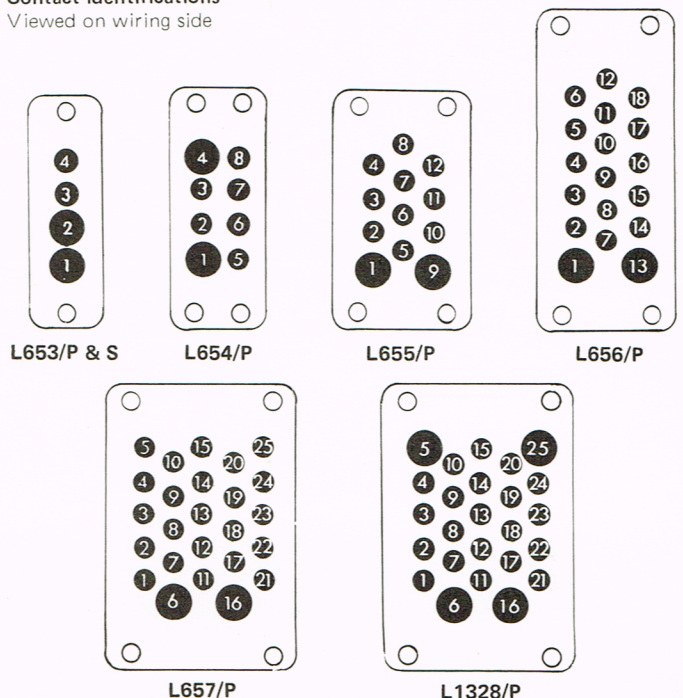


		A	B	C	D	E	F
4 - pole 2 large 2 small	inch	0.406	1.437	0.365	-	1.015	1.250
	mm	10,3	36,5	9,3	-	25,8	31,8
8 - pole 2 large 6 small	inch	0.578	1.484	0.537	0.312	1.060	1.296
	mm	14,7	37,7	13,6	7,9	26,9	32,9
12 - pole 2 large 10 small	inch	0.843	1.500	0.740	0.500	1.061	1.296
	mm	21,4	38,1	18,8	12,7	27	32,9
18 - pole 2 large 16 small	inch	0.843	2.000	0.740	0.500	1.515	1.750
	mm	21,4	50,8	18,8	12,7	38,5	44,5
25 - pole 2 or 4 large	inch	1.187	1.750	1.077	0.875	1.265	1.500
	mm	30,2	44,5	27,4	22,2	32,1	38,1

These unitors were originally developed under a Government Contract in which reliability was a paramount requirement. The male contacts have a controlled degree of float to facilitate blind engagement, and the configuration is designed to obviate incorrect mating. The mouldings are track resistant, and clearance is provided between the mating faces for air to circulate and dispel any moisture deposited. All unitors have two, heavy current poles, but the 25-pole has a choice of two or four.

While originally devised for direct chassis-to-chassis connections their versatility has been extended by the ancillary range of aluminium alloy cable outlets and shroud retainers.

Specification:	DEF - 5321																		
Current rating:	Small poles, 3 A Large poles, 10 A (temperature rise $\leq 20^{\circ}\text{C}$)																		
Breakdown (d.c.):	At sea level 3 kV, at 20 000 m 66 000 feet 750 V																		
Creepage distance:	3,1 mm 0.12 inch between poles 4,2 mm 0.17 inch between any pole and chassis																		
Contact resistance (maximum):	2 milliohms (small poles) 1.2 milliohms (large poles) > 100 megohms																		
Insulation resistance:																			
Capacitance:	4 pF (between poles) at 800 Hz																		
Humidity:	Class H5 (DEF - 5011)																		
Temperature range:	-40°C to $+100^{\circ}\text{C}$ (Ambient)																		
Insertion/withdrawal force (maximum):	4,4 N 1 lbf per contact																		
Wire sizes (maximum):	Small poles 0.04 inch 1 mm 19 s.w.g. Large poles 0.067 inch 1,7 mm 16 s.w.g.																		
Panel thickness:	Flange on wiring side of panel, 0.125 inch 3,2 mm Flange on mating side of panel, no limit.																		
Materials:	Black nylon-filled phenolic resin mouldings, silver or gold plated solid brass pins and beryllium copper sockets. For silver finish quote part number e.g. L653/P For gold finish add suffix Au e.g. L653/P/Au																		
Weight (average, mated pair):	<table><tr><td>L653</td><td>0.3 oz</td><td>8,4 g</td></tr><tr><td>L654</td><td>0.48 oz</td><td>13,5 g</td></tr><tr><td>L655</td><td>0.69 oz</td><td>19,6 g</td></tr><tr><td>L656</td><td>0.98 oz</td><td>27,8 g</td></tr><tr><td>L657</td><td>1.16 oz</td><td>32,8 g</td></tr><tr><td>L1328</td><td>1.3 oz</td><td>37,2 g</td></tr></table>	L653	0.3 oz	8,4 g	L654	0.48 oz	13,5 g	L655	0.69 oz	19,6 g	L656	0.98 oz	27,8 g	L657	1.16 oz	32,8 g	L1328	1.3 oz	37,2 g
L653	0.3 oz	8,4 g																	
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L655	0.69 oz	19,6 g																	
L656	0.98 oz	27,8 g																	
L657	1.16 oz	32,8 g																	
L1328	1.3 oz	37,2 g																	
Contact identifications Viewed on wiring side																			



All plug and socket contacts are numbered on the face and reverse side of mouldings.