

AS Series Connectors



Large application choices

- Filter, hermetic & fiber optic options available
Shell sizes 08 - 24
- Intermateable with existing LN29729 (Mil-C 38999 Series 1.5) and Pan 6433-2 style connectors
- High density arrangements

Built to withstand harsh environments

- Conductive black zinc finish
- Interfacial wire sealing
- Bonded and sealed insert to prevent moisture ingress

GENERAL SPECIFICATION

Contact Size	Shell Size	Max. Current (Amps)	Durability (Cycles of Engagement & Disengagement)	No. of Keyway Orientations	Wire Sealing (mm)		Temperature (° C)*	
					Min.	Max.	Min.	Max.
22	08 to 24 see below	5	500	5 only 3 for shell size 8	0.76	1.37	-55	+175
20		7.5			1.02	2.11		
16		20			1.65	2.77		

*The upper limit is the maximum internal hot-spot temperature resulting from the combination of the ambient temperature and heating due to current.

Shell Size	Contact Arrangement	Number of Contacts			Rating **
		Size 22 D	Size 20	Size 16	
08	-98		3		I
08	-35	6			M
10	-98		6		I
10	-35	13			M
10	-02			2	I
10	-03			3	I
12	-04			4	I
12	-98		10		I
12	-35	22			M
14	-97		8	4	I
14	-19		19		I
14	-35	37			M
16	-08			8	I
16	-26		26		I
16	-35	55			M

Shell Size	Contact Arrangement	Number of Contacts			Rating **
		Size 22 D	Size 20	Size 16	
18	-32		32		I
18	-35	66			M
20	-16			16	I
20	-39		37	2	I
20	-41		41		I
20	-35	79			M
22	-21			21	I
22	-55		55		I
22	-35	100			M
24	-29			29	I
24	-61		61		I
24	-35	128			M

**Ratings M&I define Dielectric Withstand Voltage ratings as follows:
M = 1300 volts rms, I = 1800 volts rms, current leakage less than 2 milliAmps.

Please note: The contact/insert arrangements shown above are standard layouts. Other combinations of shell sizes and insert arrangements may be available. For details contact the TE Technical Support.

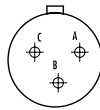
CONTACTS & TOOLING PART NUMBERS

Contact Size	Socket	Pin	Filler Plug	Ins/Ext Tool	Crimp Tool	Socket Positioner	Pin Positioner
22	38943-22	38941-22	600300-22	M81969/14-01	M22520/2-01	M22520/2-07	M22520/2-09
20	38943-20	38941-20	600300-20	M81969/14-10	M22520/2-01	M22520/2-10	M22520/2-10
16	38943-16	38941-16	600300-16	M81969/14-03	M22520/1-01	M22520/1-04	M22520/1-04

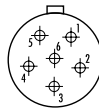
Please note: PCB versions are ordered with AS2 prefixes and come with contacts.

AS Series Connectors

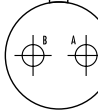
AS CONTACT / INSERT ARRANGEMENTS



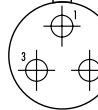
08-98 (I)
Size 8
3#20



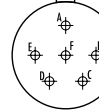
08-35 (M)
Size 8
6#22



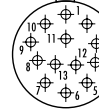
10-02 (I)
Size 10
2#16



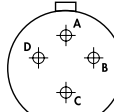
10-03 (I)
Size 10
3#16



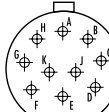
10-98 (I)
Size 10
6#20



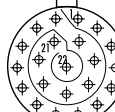
10-35 (M)
Size 10
13#22



12-04 (I)
Size 12
4#16



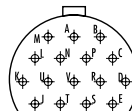
12-98 (I)
Size 12
10#20



12-35 (M)
Size 12
22#22



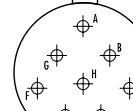
14-97 (I)
Size 14
8#20 4#16



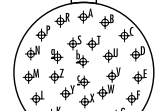
14-19 (I)
Size 14
19#20



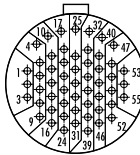
14-35 (M)
Size 14
37#22



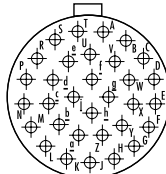
16-08 (I)
Size 16
8#16



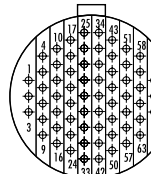
16-26 (I)
Size 16
26#20



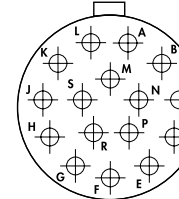
16-35 (M)
Size 16
55#22



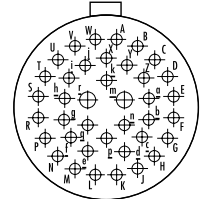
18-32 (I)
Size 18
32#20



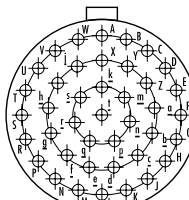
18-35 (M)
Size 18
66#22



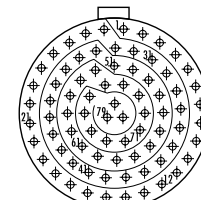
20-16 (I)
Size 20
16#16



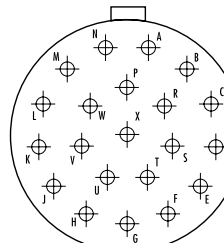
20-39 (I)
Size 20
37#20 2#16



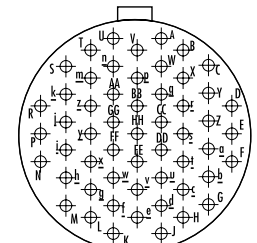
20-41 (I)
Size 20
41#20



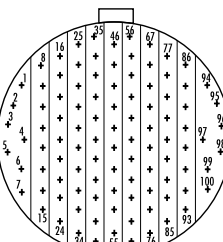
20-35 (M)
Size 20
79#22



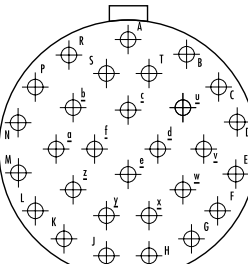
22-21 (I)
Size 22
21#16



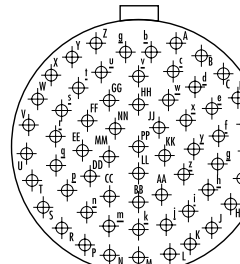
22-55 (I)
Size 22
55#20



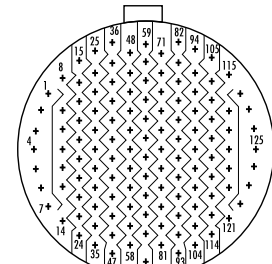
22-35 (M)
Size 22
100#22



24-29 (I)
Size 24
29#16



24-61 (I)
Size 24
61#20

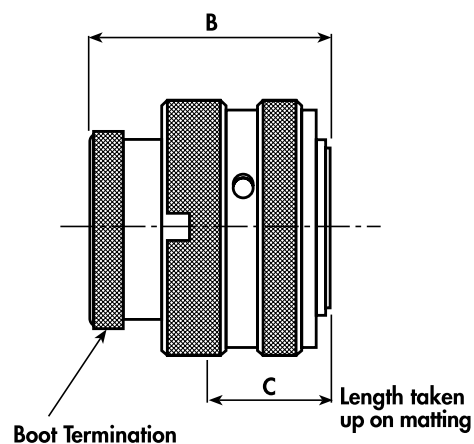


24-35 (M)
Size 24
128#22

Ratings M&I define Dielectric
Withstand Voltage ratings
as follows: I = 1800 volts rms,
M = 1300 volts rms, current
leakage less than 2 milliamperes.

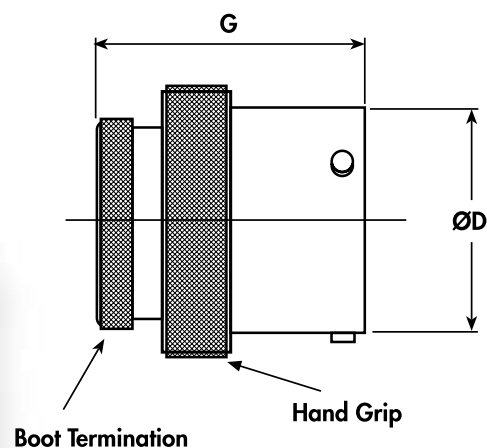
AS Series Connectors (continued)

PLUG - TYPE 6



Shell Size	A Max.	B Max.	C Max.
08	17.70	33.50	15.00
10	20.80		
12	25.20		
14	28.40		
16	31.50		
18	34.80		
20	38.20		
22	41.30		
24	44.60		

INLINE RECEPTACLE - TYPE 1

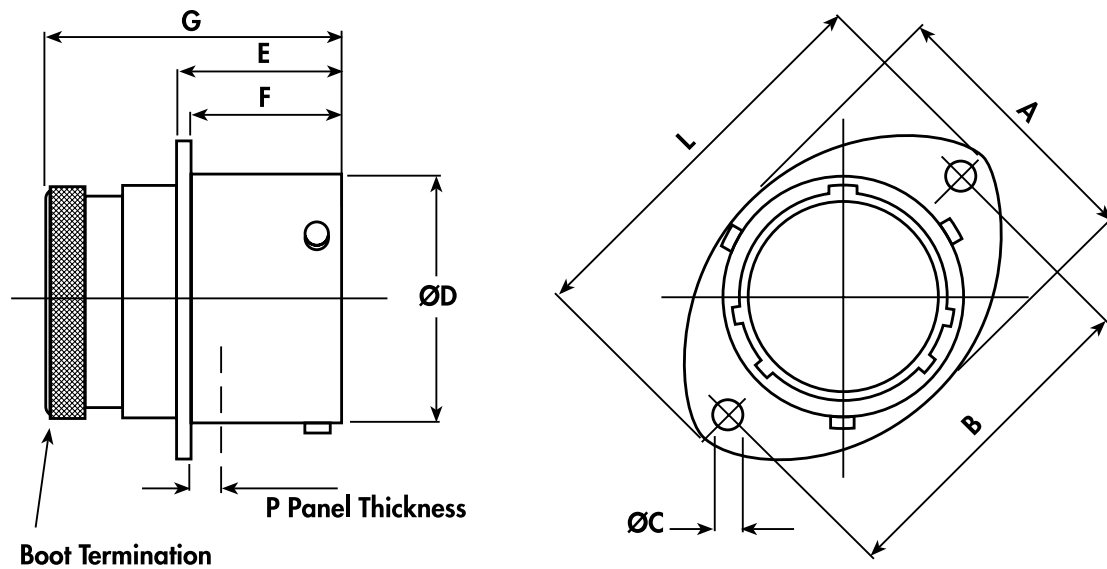


Shell Size	A Max.	D +0 -0.13	G Max.
08	17.70	12.00	33.50
10	20.80	15.00	
12	25.20	19.05	
14	28.40	22.22	
16	31.50	25.40	
18	34.80	28.57	
20	38.20	31.75	
22	41.30	34.92	
24	44.60	38.10	

All dimensions are in mm unless otherwise stated.

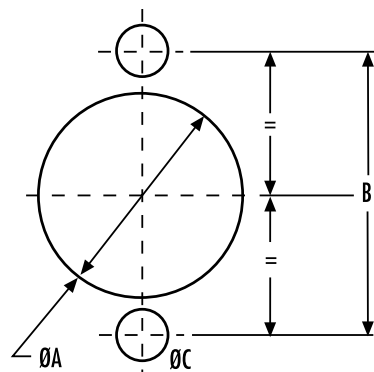
AS Series Connectors (continued)

RECEPTACLE - TYPE O



Shell Size	A REF	B ± 0.2	C + 0.1 – 0	D + 0 – 0.13	E + 0.15 – 0	F + 0 – 0.13	G Max.	L Max.	P Max.	
08	16.50	21.35	3.20	12.00	17.21	16.05	33.50	27.20	3.00	
10	19.50	25.90		15.00				32.00		
12	24.00	29.10		19.05				35.20		
14	27.00	32.50		22.22				38.40		
16	30.30	34.80		25.40				41.00		
18	33.70	38.20		28.57		44.70				
20	37.00	41.60		31.75		47.90				
22	40.00	44.95	3.70	34.92		15.29			51.10	2.26
24	43.30	49.35		38.10					55.80	

PANEL CUT-OUT DETAIL

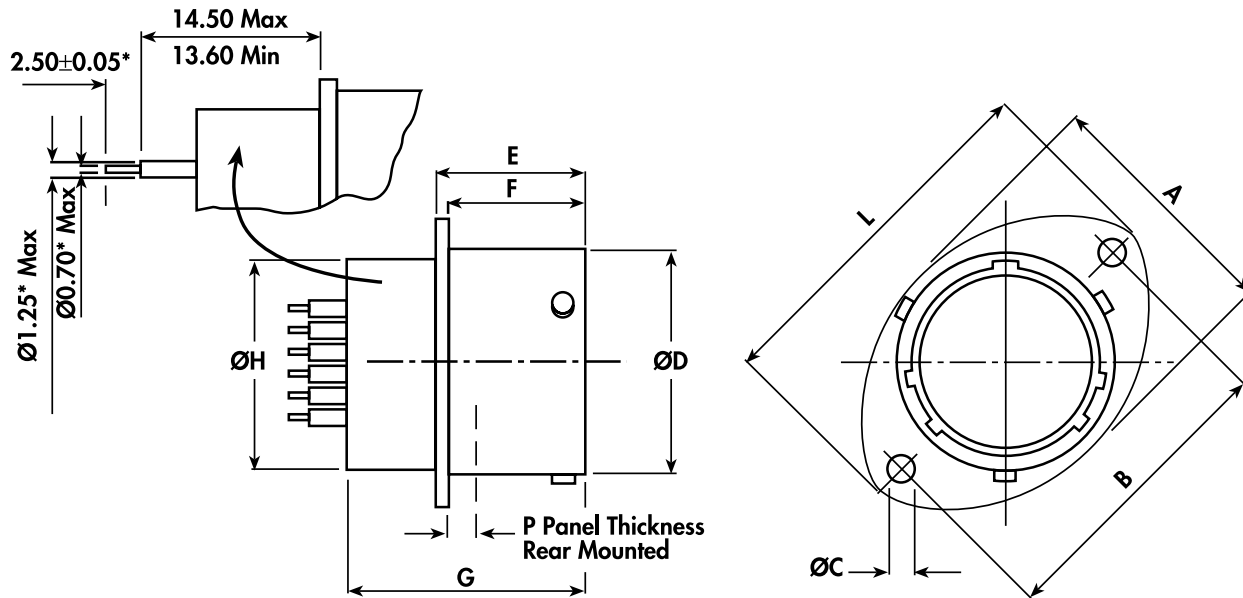


Shell Size	A ±0.10	B ±0.20	C ±0.20
08	14.50	21.40	3.6
10	17.40	25.90	
12	21.90	29.10	
14	25.00	32.50	
16	28.20	34.80	
18	31.40	38.20	
20	34.60	41.60	
22	37.80	44.90	4.10
24	41.00	49.30	

All dimensions are in mm unless otherwise stated.

AS Series Connectors (continued)

PCB BOX MOUNTING RECEPTACLE - TYPE 2



*Dimensions for 20 and 22 contacts shown are for standard parts. Other PCB contacts are available.

Shell Size	A REF	B ± 0.2	C + 0.1 − 0	D + 0 − 0.13	E + 0.15 − 0	F + 0 − 0.13	G Max.	H Max.	L Max.	P Max.
08	16.50	21.40	3.7	12.00	17.21	16.05	27.65	11.10	27.20	3.00
10	19.50	25.90		15.00				14.27	32.00	
12	24.00	29.10		19.05				17.44	35.20	
14	27.00	32.50		22.22				20.60	38.40	
16	30.30	34.80		25.40				23.77	41.00	
18	33.70	38.20		28.57				26.94	44.70	
20	37.00	41.60		31.75		30.11		47.90		
22	40.00	44.95		34.92		33.29		51.10		
24	43.30	49.35		38.10		36.46		55.80	2.26	

All dimensions are in mm unless otherwise stated.

AS Series Connectors (continued)

ORDERING INFORMATION

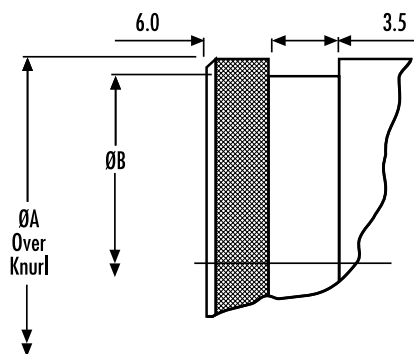
	AS	*	**	—	**	*	*	—	***
Range Ref:									
Style:									
0 = 2-Hole Flange Receptacle (Front Fixing)									
1 = Inline Receptacle									
2 = 2-Hole Flange Box Mount PCB Receptacle (Front Fixing or Rear Fixing)									
6 = Free Plug									
8 = Cap for Plug									
9 = Cap for Receptacle									
Shell Size:									
Contact Arrangement:									
Insert Type:									
P = Pin									
S = Socket									
Shell Keyways:									
N = Red (Standard)									
A = Yellow									
D = Green									
B = Blue									
C = Orange									
U = Violet									
(U = Universal for Test Harnesses)									
Modification Code:									

Please note: The size 8 shell is only available in keyways A, D and N.

ACCESSORIES PART NUMBERS

Shell Size	Nut Plate	Gasket
08	ATM396 -8	GV-08
10	ATM396 -10	GV-10
12	ATM396 -12	GV-12
14	ATM396 -14	GV-14
16	ATM396 -16	GV-16
18	ATM396 -18	GV-18
20	ATM396 -20	GV-20
22	ATM396 -22	GV-22
24	ATM396 -24	GV-24

BOOT TERMINATION DETAIL



Shell Size	A ± 0.10	B ± 0.05
08	11.20	10.00
10	14.22	12.95
12	17.39	16.15
14	20.55	19.15
16	23.72	23.35
18	26.89	25.35
20	30.06	28.50
22	33.24	31.70
24	36.41	34.85

All dimensions are in mm unless otherwise stated.