



RANGE MS
Circular Threaded Coupling
Connectors

INDIA'S FIRST CONNECTOR COMPANY

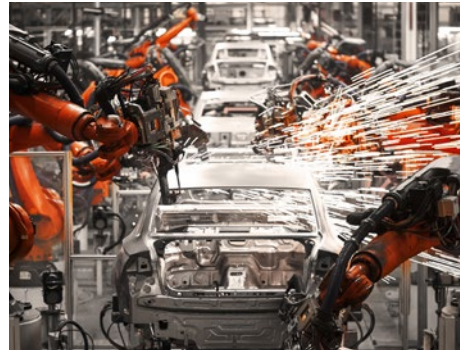
Since its inception in 1966, the name Allied Electronics Corporation - widely known as Allied Connectors - has been synonymous with reliability and trust. Allied is one of the leading manufacturers of a wide range of circular multi-pin connectors. As a preferred supplier, Allied has pioneered the development and indigenisation of connectors for sectors that have driven India's economic growth over the last few decades - such as Defence, Railways, Power Plants, Infrastructure, Process Control Electronics, and CNC machines.

WHAT MAKES ALLIED THE BEST IN CLASS

Allied is the supplier of choice for hundreds of customers around the world. Following are just some of the reasons why the company has earned the trust of its customers:

- Focused expertise and experience of over five decades
- Zero Compromise on Quality
- Integrated in-house manufacturing facility
- Capacity to handle projects of all magnitudes
- Proficiency in Customization
- No MOQs on standard products
- Quick Prototype Sampling
- Quick Delivery for standard products
- Personal Attention and Swift Response
- Commitment to Relationships





Circular Threaded Connectors as per JSS 50812 (equivalent to MIL C 5015)

Allied MS connectors are ideal for use in harsh environments, where power/signal has to be transmitted in an environment of extremely low or high temperatures, humidity, and vibration. Apart from providing mechanical protection to the contacts, the connectors are lightweight and easy to handle, which facilitates ease of mating/un-mating.

The Allied MS Range of connectors are circular threaded coupling connectors designed as per JSS 50812 (equivalent to American MIL C 5015), and are qualified by LCSO (Electronic Components Standardisation Organisation- Ministry of Defence, Government of India).

The main specifications of the MS Connectors are as follows:

- Shell - Aluminium alloy
- Finish - Olive drab cadmium (standard)
- ROHS & REACH compliant finishes
- Zinc cobalt black, Zinc Cobalt green, Nickel, Zinc Nickel Black
- Insulator - Polychloroprene (standard), Silicon, Viton, Flame retardant halogen free elastomer, Polychloroprene UL94V-0
- Contacts - copper base alloy, silver plated (standard) or gold plated (optional)
- Contact termination - solder (standard) crimp type (optional)
- Over 100 insert arrangements and 13 shell sizes for signal, power, and combination of signal-power interconnections
- Qualification approved by LCSO, Government of India
- Connectors with EMI/RFI shielding facility, IP 67 compliance, Pre-Mating Earth Contact, and many other special and customised features available - Please refer 'Customised Connectors' on Page 67 & consult Factory for more details.





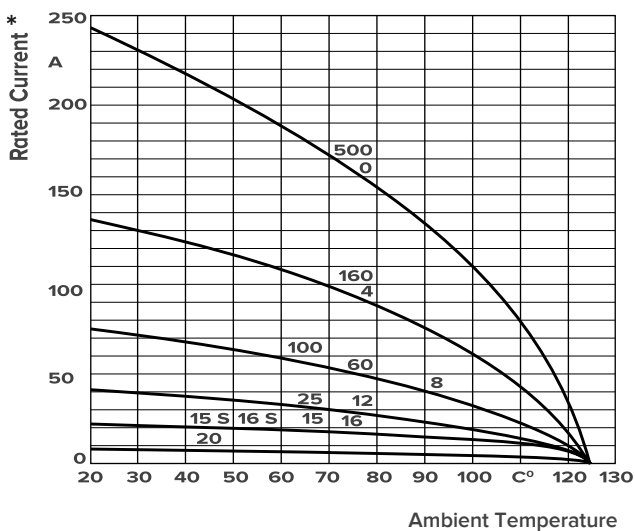
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Contact Rating					
Contact Size	Standard Wire Size*			Max Test Current (Amps)***	Rated Current (Amps)***
	SQ MM	AWG	Conductor Ø (mm**)		
16S/16	0.75 - 1.5	18 - 16	1.1 - 1.6	22	13
12	2.0 - 3.0	14 - 12	1.8 - 2.3	41	23
8	6.0 - 10.0	10 - 8	3.2 - 4.2	73	46
4	16 - 25	6 - 4	5.2 - 6.5	135	80
0	35 - 50	2 - 0	7.7 - 9.5	245	150

*Sizes mentioned are standard. In case of special termination size requirements for crimp contacts, please refer to page 57.

**Diameter of stranded conductor is an approximation.

***at ambient temperature of 20°C = 68°F

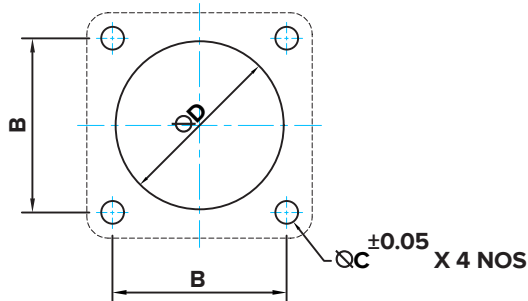


General Specification	
Shell Housing**	Aluminium Alloy
Plating**	Olive Drab Cadmium
Insulator**	Polychloroprene
Contact Material**	Copper Base Alloy - Silver Plated
Mating Cycles	500
Operating Temperature	-55°C to +125°C
Insulation Resistance	Min. 5000 MΩ at 500V DC
Current Rating	Upto 150 AMP (Depends on contact size)
Working Voltage	200V To 3000VAC RMS (Depends on insert arrangement)
Wire Termination**	Solder Type
**Other options available - refer to page 9 (ordering guidelines) for details	

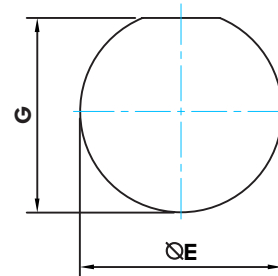
*NOTE: Contacts are designed for current De-Rating as per above graph

Service Rating	INST	A	D	E	B	C
Test Voltage at Sea level AC (rms)	1000	2000	2800	3500	4500	7000
Rated Working Voltage - DC at Sea level AC (rms)	250 200	700 500	1250 900	1750 1250	2450 1750	4200 3000
Effective Creepage - Inch (nominal) - mm	1/16 1.57	1/8 3.18	3/16 4.75	1/4 6.35	5/16 7.92	1 25.40
Mechanical Spacing - Inch (nominal) - mm	- -	1/16 1.57	1/8 3.18	3/16 4.75	1/4 6.35	5/16 7.92

PANEL CUT OUT DIMENSIONS FOR SQUARE FLANGE RECEPTACLE (FRONT PANEL MOUNTING)



PANEL CUT OUT DIMENSIONS FOR JAM-NUT RECEPTACLE (REAR PANEL MOUNTING)



SHELL SIZE	B ^{±0.1}	Ø D ^{+0.1 / -0.0}	Ø C	Screw to be used
10SL	18.2	16.5	3.4	M3... DIN 85
12S	20.5	16.5	3.4	M3... DIN 85
14S	23.0	19.7	3.4	M3... DIN 85
16S	24.6	22.9	3.4	M3... DIN 85
16	24.6	22.9	3.4	M3... DIN 85
18	27.0	26.1	3.4	M3... DIN 85
20	29.4	29.5	3.4	M3... DIN 85
22	31.8	32.7	3.4	M3... DIN 85
24	34.9	36.0	3.9	M3.5... DIN 85
28	39.7	42.0	3.9	M3.5... DIN 85
32	44.5	48.3	4.5	M4... DIN 85
36	49.2	54.6	4.5	M4... DIN 85
40	55.6	60.7	4.5	M4... DIN 85

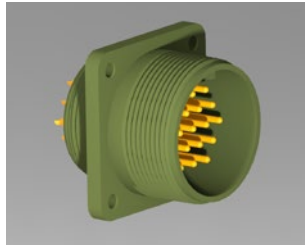
Ø E ^{-0.25 / -0.0}	G ^{+0.0 / -0.1}
22.40	21.00
28.75	27.40
31.95	30.95
31.95	30.95
35.10	33.75
38.30	36.85
41.45	40.05
44.65	43.35
51.00	49.55
57.35	55.95
63.70	62.35
70.50	68.55

NOTE : Dimensions are not contractual & may be subject to changes

FIXED CONNECTORS

Fixed, square flange wall mount receptacle with accessory threads, with or without accessories.

Styles:
MS/AEC 3100E/A, 3100F,
3100F ADP, 3100G, 3100M,
3100R, 3100F ADPBS.



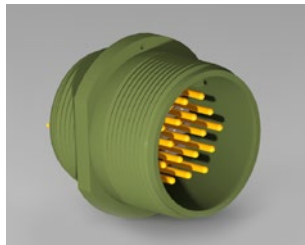
Fixed, square flange panel mount receptacle without accessory threads.

Style:
MS/AEC 3102R, 3102Y.



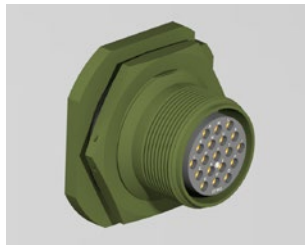
In-line, cable extension receptacle with accessory threads, with or without accessories.

Style:
MS/AEC 3101E/A, 3101F, 3101F
ADP, 3101G, 3101M, 3101R,
3101F ADPBS



Fixed, single hole mounting jam-nut receptacle, with or without accessory threads.

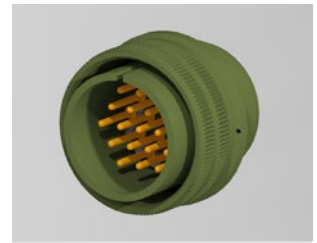
Style:
MS/AEC 3107A, 3107T



FREE CONNECTORS

Free, straight cable connector with accessory threads, with or without accessories.

Style:
MS/AEC 3106E/A, 3106F,
3106F ADP, 3106G, 3106M,
3106R, 3106T, 3106F ADPBS.



Free, 90° cable connector with accessory threads, with or without accessories.

Style:
MS/AEC 3108F, 3108R, 3108F
ADP, 3108G, 3108M, 3108F
ADPBS.



MS 3102 R 28-11 S X TH FR A30 003E C&C

Series - MS	
Threaded Coupling Connectors Series (As per JSS 50812, eq. to MIL-C-5015) (Also referred to as 'AEC')	

Shell Style	
3100	Wallmount Receptacle with rear accessory Thread
3101	Cable extension In-Line receptacle with rear Thread
3102	Box Mounting receptacle
3106	Straight cable connector
3107	Jam Nut Receptacle
3108	90° Cable connector
TBF	Thru - Bulkhead receptacle

Environmental Class	
EA	Backshell for Flex Tube (also used with 3057 'A' & 3057 'C' Cable clamps)
F	Applies to Cable plug 3106, 3108; receptacle 3100, 3101. Scope is cable clamp & grommet (Telescopic Bushing to be ordered separately)
G	Backshell Type G as per VG95234 for Heat Shrink Boot
M	Backshell Type M as per VG95234 for Shielded Cable & Heat Shrink Boot
R	Environmental resistant - applies to receptacle 3102 (For style 3100, 3101 & 3106 - Scope short Endbell with grommet)
T	Connector with Accessory Thread (Less Backshell & grommet) Also refer as - 211
Y	Receptacle with PCB Contacts

Shell Size & Contact arrangement

Contact : P - Pin, S - Socket

Insert Orientation
W, X, Y, Z (as applicable)

Accessories	
C & C	Cap & Chain Assembly
SQG	SQ. Gasket for Front mounting Receptacle
SQGB	SQ. Gasket for Rear mounting Receptacle (consult factory)
SQGM	Conductive silver filled SQ. Gasket
(Size)-A Or (Size)-C	3057A or 3057C Type Cable Clamp For EA type Backshell
ADP P(Size)+G	For PG adapter with gland*
ADP M(Size)+G	For Metric adapter with gland*
*Omit G for No Gland	
ADPBS	Adapter for Brand-Strap/ Constant Force Spring
TB	Telescopic Bushing (to be ordered separately for 'F'-type)
DC	Dust Cap

Finish Options	
003E	Black Zn - Co. Plated (RoHS & REACH)
101E	Green Zn - Co. Plated (RoHS & REACH)
NI	Bright nickel Plated (RoHS & REACH)
005E	Black Zn - Ni. Plated (RoHS & REACH) Consult Factory
SS	Stainless Steel Connector
Omit for Std. Cadmium Olive Drab	

Contact Options	
A30	Crimp Contact Silver Plated
C30	Crimp Contact Gold Plated
LC	Less Contact
GP	Solder Contact Gold Plated
Omit if Std. Solder Contact (Silver Plated)	
Contact Termination size options available. Pre-Mating Contacts (First mate - Last Break) available (Consult Factory)	

Insulator Options	
FR	Flame Retardant - Elastomer Halogen free, Low Smoke Toxicity
NPF	Flame Retardant Polychloroprene (UL94V - 0 qualified)
SI	Silicon Insulator
VTN	Flouro Carbon Insulator
Omit for Standard: Polychloroprene	

Modifications for 3100 & 3102 - Consult Factory before ordering	
TH	Receptacle for front mounting with Metric Thrd. mounting holes
B05	Receptacle for rear mounting with thru mounting holes
B051	Receptacle for rear mounting with Metric Thrd. mounting holes
B052	Receptacle for rear mounting with UN Thrd. mounting holes
Further available - Please consult Factory before ordering	

INSERT ARRANGEMENTS

1

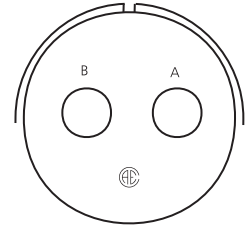
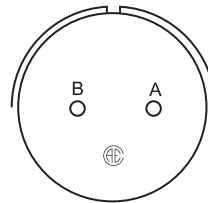
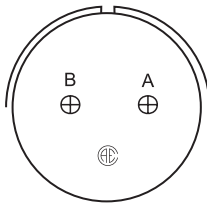
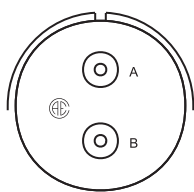


Arrangement	12-5	14S-4	16-12	18-16	20-2	22-7
No. of Contacts	1	1	1	1	1	1
Contact Size	12	16	4	12	0	0
Service Rating	D	D	A	C	D	E

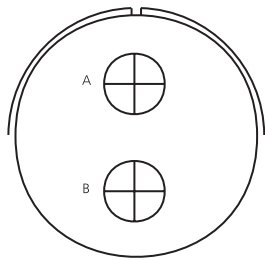
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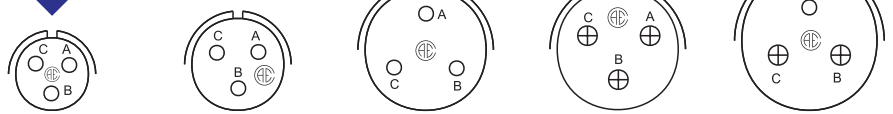
Arrangement	10SL-4	12S-3	14S-9	16S-4	16-11	18-3
No. of Contacts	2	2	2	2	2	2
Contact Size	16	16	16	16	12	12
Service Rating	A	A	A	D	A	D



Arrangement	20-23	22-8	22-11	24-9
No. of Contacts	2	2	2	2
Contact Size	8	12	16	4
Service Rating	A	E	B	A

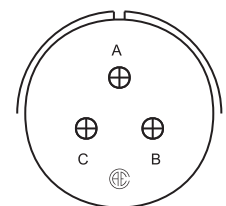
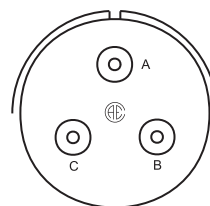
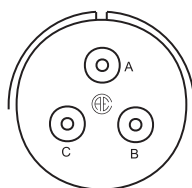
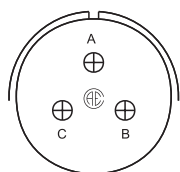
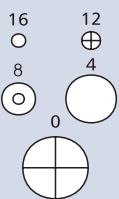


3



Arrangement	32-5	10SL-3	14S-7	16S-5	16-10	18-5
No. of Contacts	2	3	3	3	3	3
Contact Size	0	16	16	16	12	2-12, 1-16
Service Rating	D	A	A	A	A	D

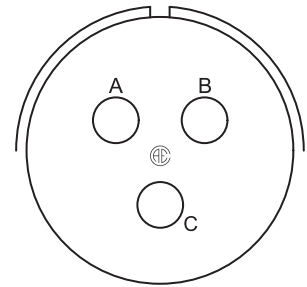
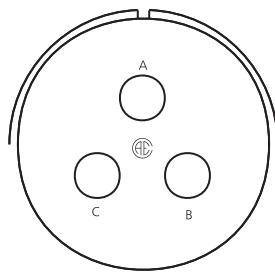
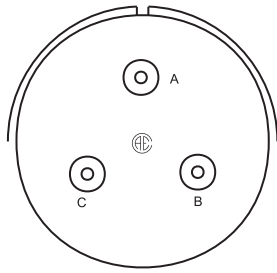
CONTACT LEGEND



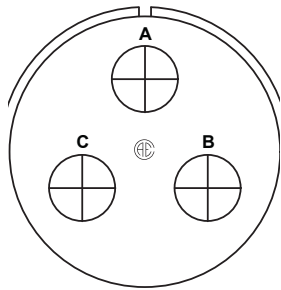
Arrangement	20-3	20-19	22-2	22-9
No. of Contacts	3	3	3	3
Contact Size	12	8	8	12
Service Rating	D	A	D	E

NOTE : Contact arrangement diagrams are for pictorial reference only, and are not drawn to scale

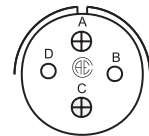
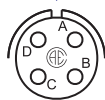
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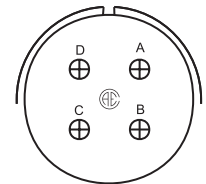
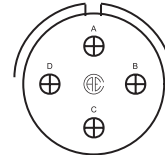
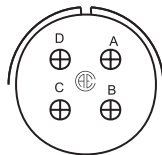
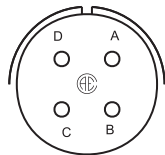
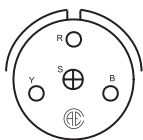
Arrangement	28-3	28-6	32L-3**
No. of Contacts	3	3	3
Contact Size	8	4	4
Service Rating	E	D	E



4

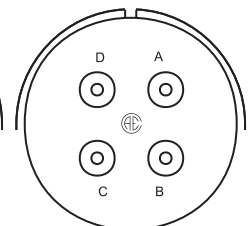
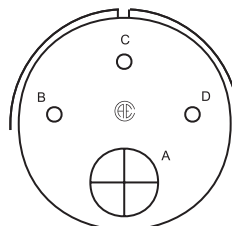
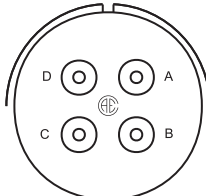
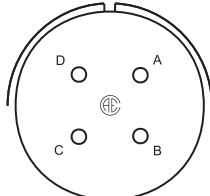
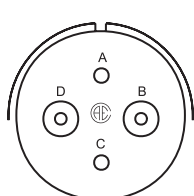
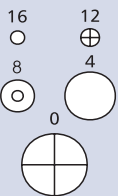


Arrangement	36-4	12SP-10*	14S-2	16-9
No. of Contacts	3	4	4	4
Contact Size	0	16	16	2-12, 2-16
Service Rating	A=D, BAL=A	INST.	INST.	A



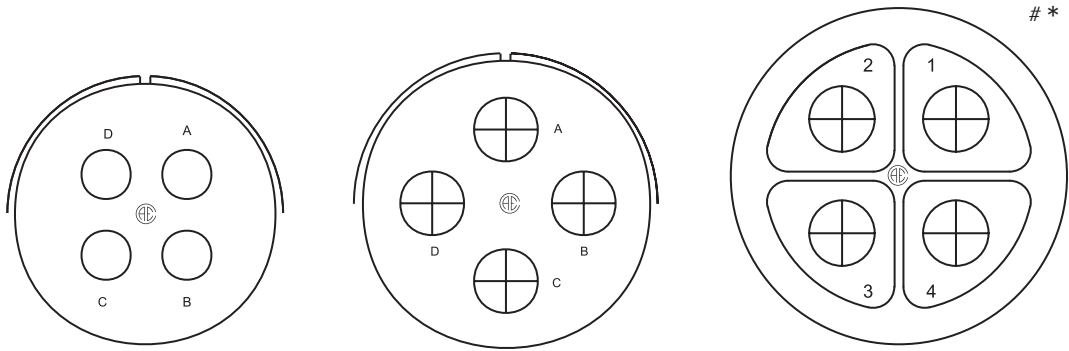
Arrangement	16-40	18-4	18-10	18-15	20-4
No. of Contacts	4	4	4	4	4
Contact Size	1-12, 3-16	16	12	12	12
Service Rating	INST.	D	A	A	D

CONTACT LEGEND

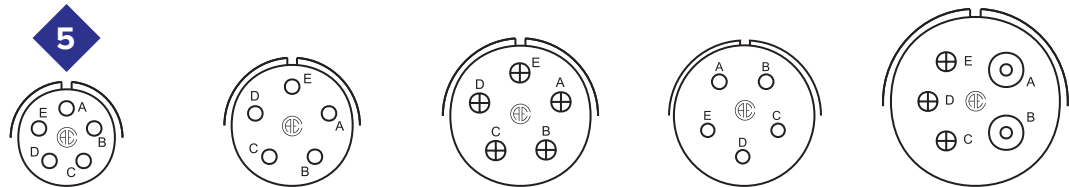


Arrangement	20-24	22-10	22-22	24-4	24-22
No. of Contacts	4	4	4	4	4
Contact Size	2-8, 2-16	16	8	1-0, 3-16	8
Service Rating	A	E	A	D	D

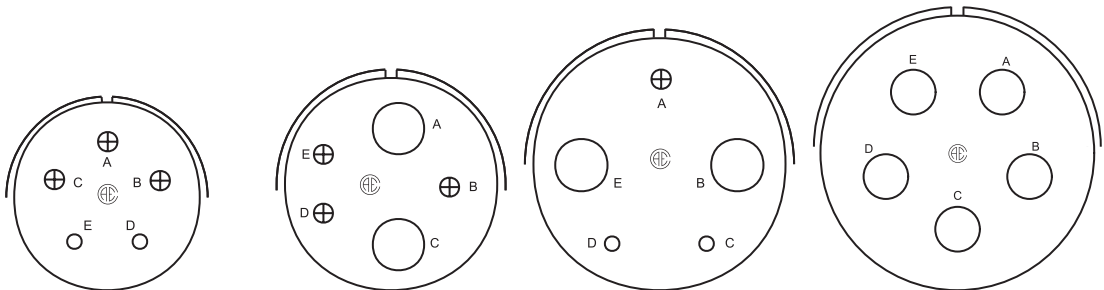
NOTE: Contact arrangement diagrams are for pictorial reference only, and are not drawn to scale
 * Consult factory before ordering ~ Available in crimp version only



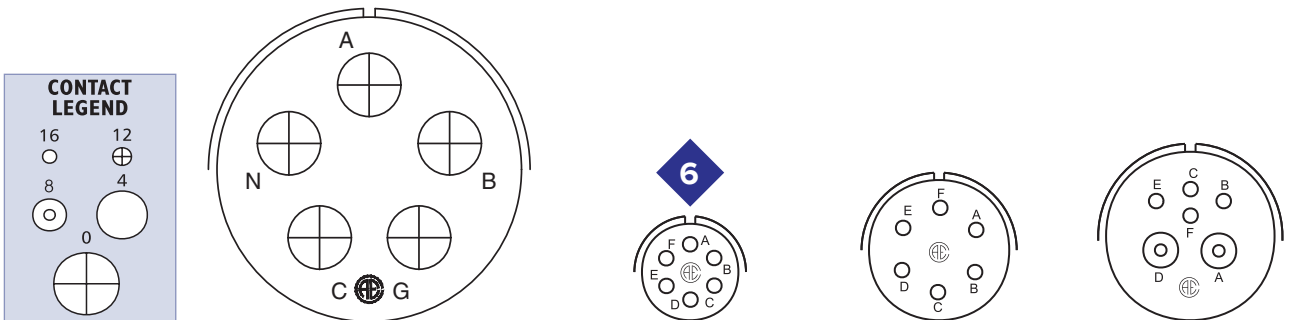
Arrangement	32-17	36-5	40LA-4
No. of Contacts	4	4	4
Contact Size	4	0	0
Service Rating	D	A	ABB 750V



Arrangement	14S-5	16S-8	18-11	18-20	20-14
No. of Contacts	5	5	5	5	5
Contact Size	16	16	12	16	2-8, 3-12
Service Rating	INST.	A	A	A	A

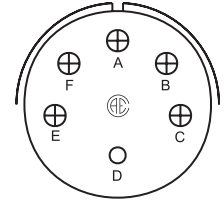
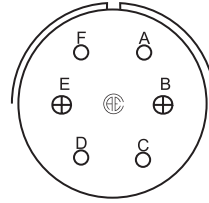
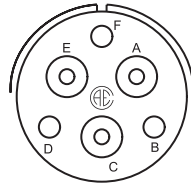
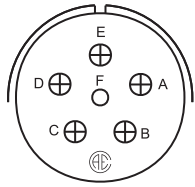


Arrangement	22-34	24-12	28-5	32L-50
No. of Contacts	5	5	5	5
Contact Size	3-12, 2-16	2-4, 3-12	2-4, 1-12, 2-16	4
Service Rating	D	A	D	A

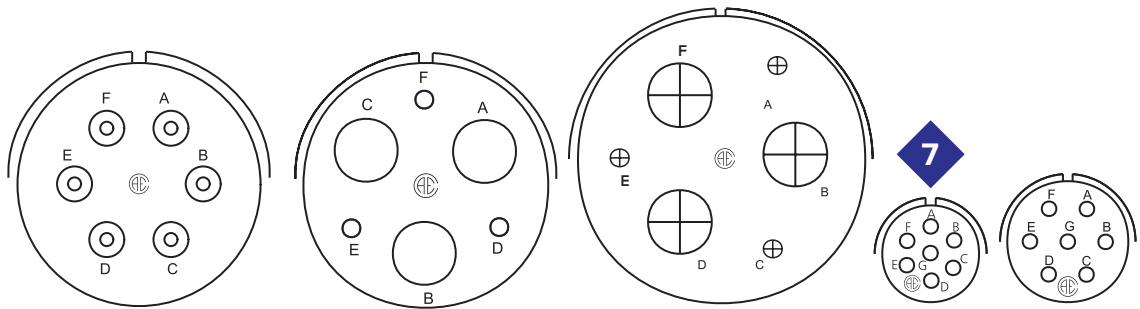


Arrangement	40L-50	14S-6	18-12	20-8
No. of Contacts	5	6	6	6
Contact Size	0	16	16	2-8, 4-16
Service Rating	A	INST.	A	INST.

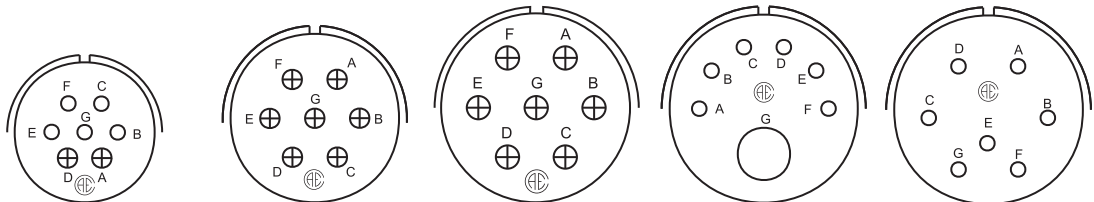
NOTE : Contact arrangement diagrams are for pictorial reference only, and are not drawn to scale
 # Railway Specific Layout * Consult factory before ordering



Arrangement	20-17	20-22	22-5	22-15
No. of Contacts	6	6	6	6
Contact Size	5-12, 1-16	3-8, 3-16	2-12, 4-16	5-12, 1-16
Service Rating	A	A	A(A,B,C,E,F)	D=E, ABCEF=A

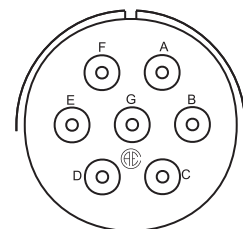
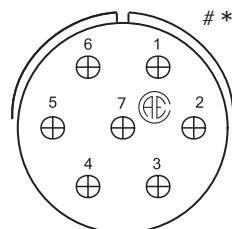
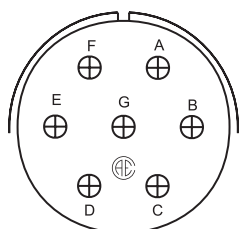
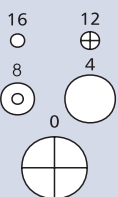


Arrangement	28L-6	28-22	36-3	14SL-61	16S-1
No. of Contacts	6	6	6	7	7
Contact Size	8	3-4, 3-16	3-0, 3-12	16	16
Service Rating	A	D	D	INST.	A



Arrangement	18-9	20-15	22-28	22-29	22-33
No. of Contacts	7	7	7	7	7
Contact Size	2-12, 5-16	12	12	1-4, 6-16	16
Service Rating	INST.	A	A	A	ABCD=D, EFG=A

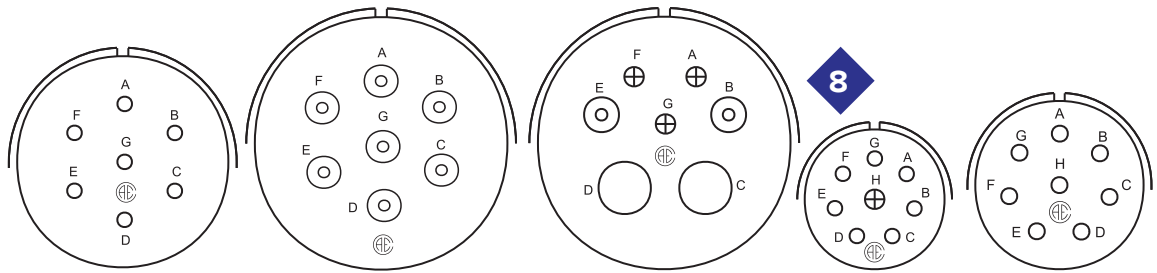
CONTACT LEGEND



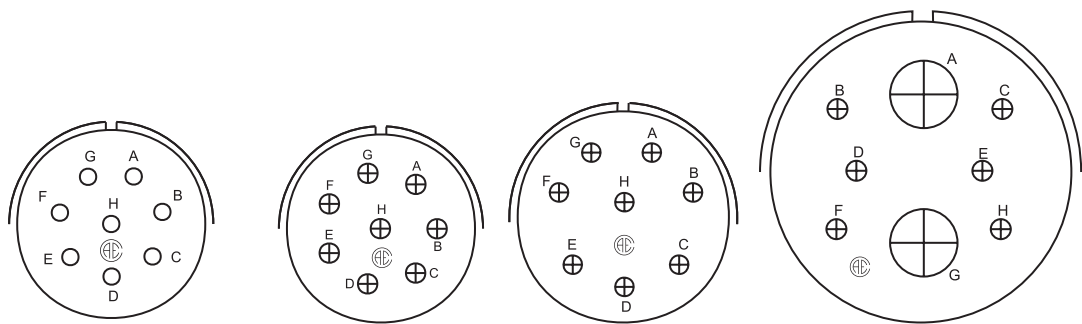
Arrangement	24-2	24GL-07	24-10
No. of Contacts	7	7	7
Contact Size	12	12	8
Service Rating	D	D	A

Railway specific layout * Consult factory before ordering

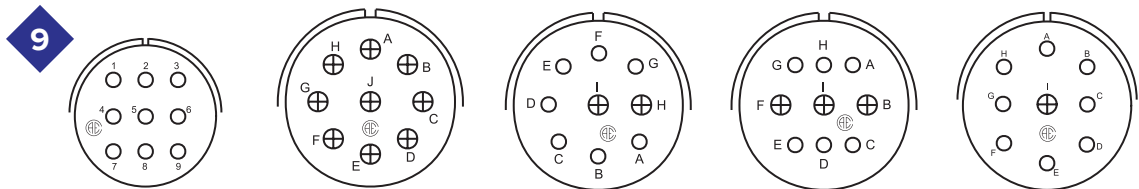
NOTE : Contact arrangement diagrams are for pictorial reference only, and are not drawn to scale



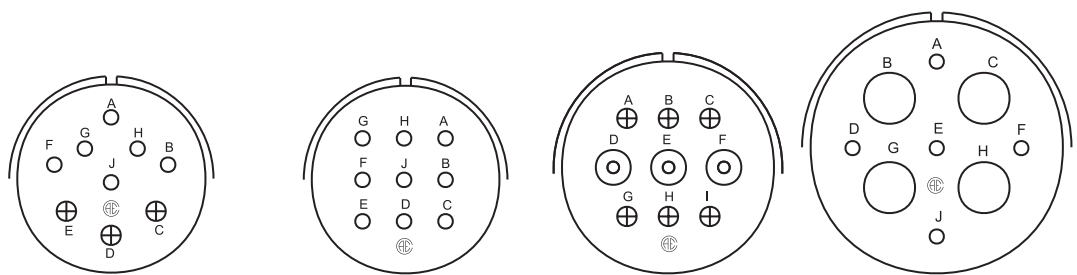
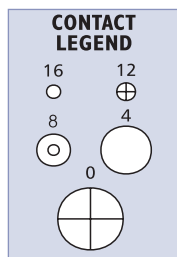
Arrangement	24-27	28 LI-7 [~]	28-10	18-8	20-7
No. of Contacts	7	7	7	8	8
Contact Size	16	8	2-4, 2-8, 3-12	1-12, 7-16	16
Service Rating	E	A	G=D, BAL.=A	A	ABHG=D, CDEF=A



Arrangement	22-18	22-23	24-6	32-15
No. of Contacts	8	8	8	8
Contact Size	16	12	12	2-0, 6-12
Service Rating	ABFGH=D, CDA=A	H=D, BAL=A	A,G,H=D, BAL=A	D

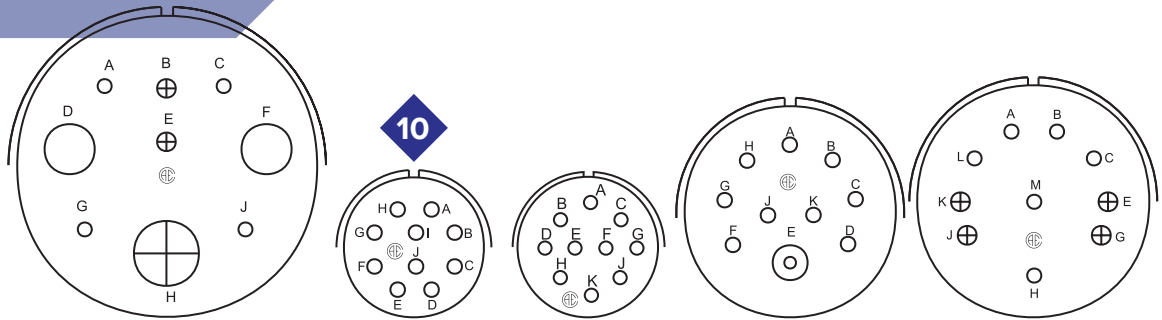


Arrangement	18-99	20L-9	20-16	20-18	20-21
No. of Contacts	9	9	9	9	9
Contact Size	16	12	2-12, 7-16	3-12, 6-16	1-12, 8-16
Service Rating	INST.	INST.	A	A	A

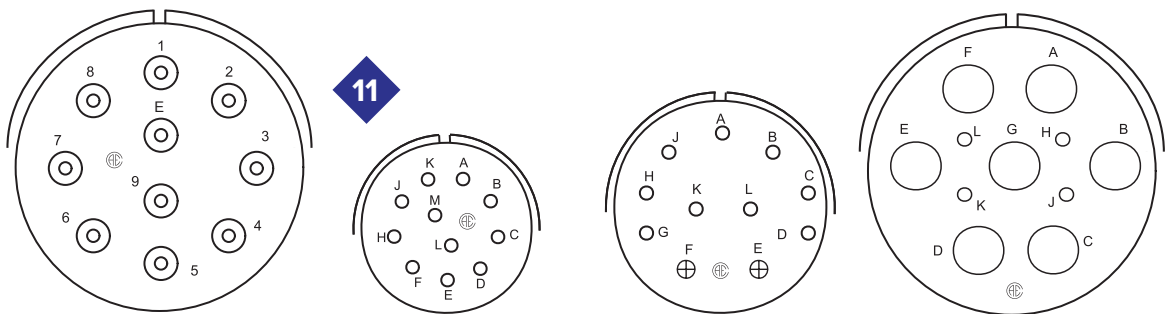


Arrangement	22-16	22-20	24-11	28L-16
No. of Contacts	9	9	9	9
Contact Size	3-12, 6-16	16	3-8, 6-12	5-16, 4-4
Service Rating	A	A	A	A

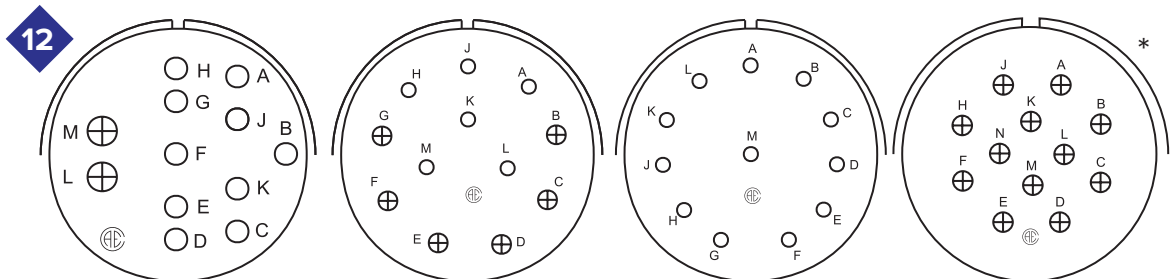
NOTE : Contact arrangement diagrams are for pictorial reference only, and are not drawn to scale
 * Consult factory before ordering ~ Available in crimp version only



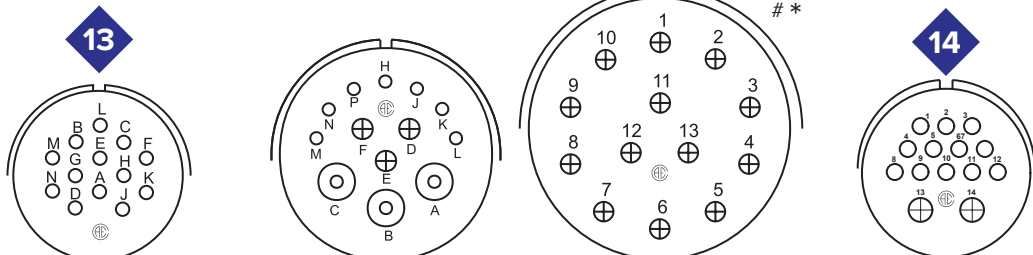
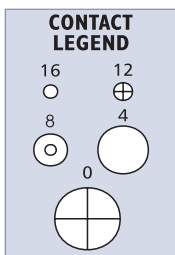
Arrangement	32-3	18-1	18-19	24-21	28-19
No. of Contacts	9	10	10	10	10
Contact Size	4-16, 2-12, 2-4, 1-0	16	16	1-8, 9-16	4-12, 6-16
Service Rating	D	BCFG=A, BAL=INST	A	D	HM=E, B=D, BAL=A



Arrangement	36L-100	20-33	24-20	40L-11
No. of Contacts	10	11	11	11
Contact Size	8	16	9-16, 2-12	7-4, 4-16
Service Rating	A	A	D	A



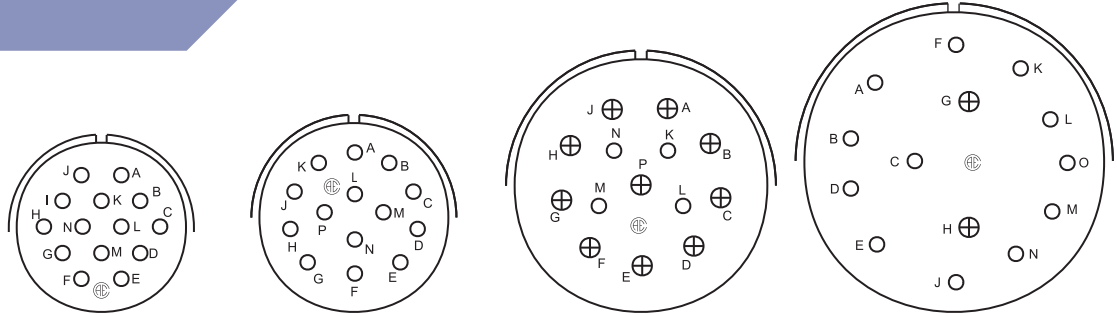
Arrangement	28-8	28-9	28-18	28-51
No. of Contacts	12	12	12	12
Contact Size	2-12, 10-16	6-12, 6-16	16	12
Service Rating	LM=E, B=D, BAL=A	D	M=C, GHJKL=D, AB=A, BAL=INST	A



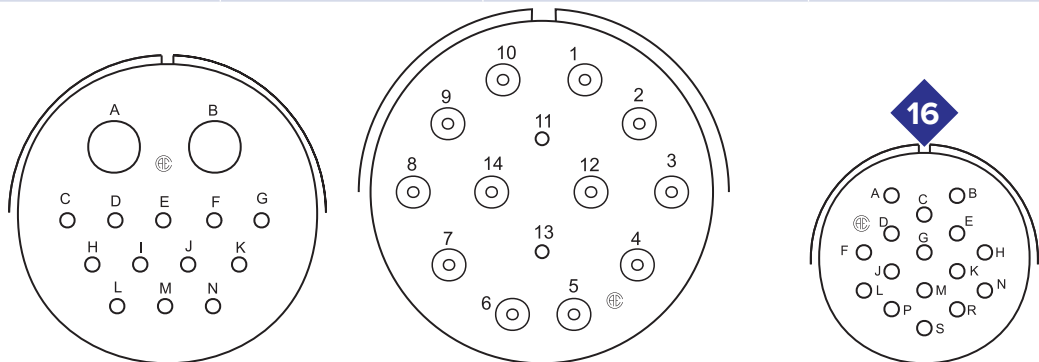
Arrangement	20-11	24L-58	32GL-13	20L-014
No. of Contacts	13	13	13	14
Contact Size	16	3-8, 3-12, 7-16	12	2-12, 12-16
Service Rating	INST	INST	D	13,14-A, BAL=INST

Railway specific layout * Consult factory before ordering

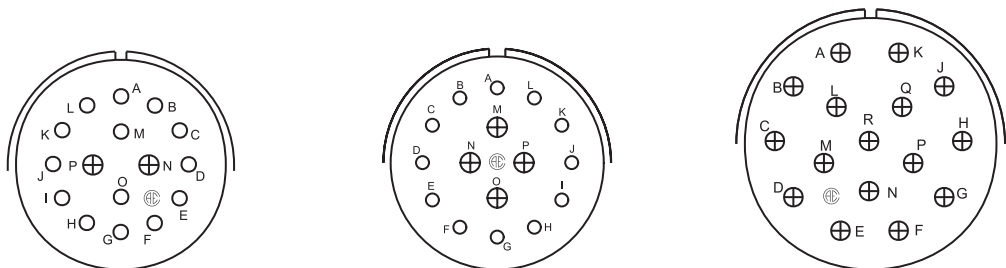
NOTE : Contact arrangement diagrams are for pictorial reference only, and are not drawn to scale



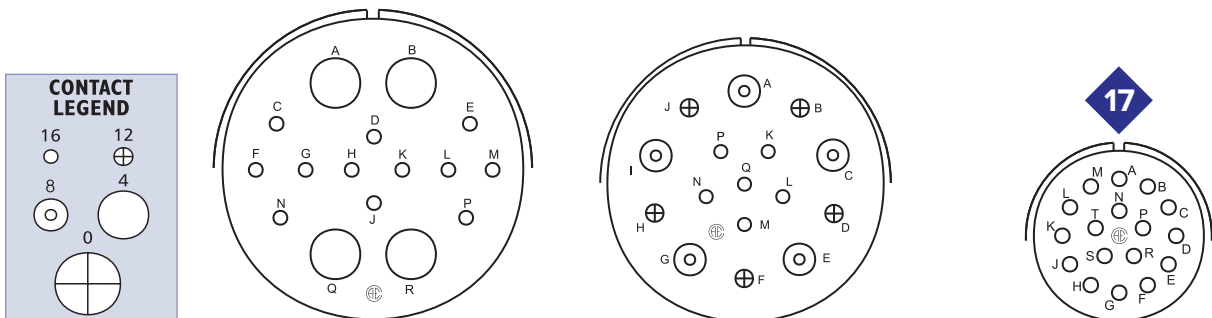
Arrangement	20-27	22-19	28-20	32-4
No. of Contacts	14	14	14	14
Contact Size	16	16	10-12, 4-16	2-12, 12-16
Service Rating	A	A	A	FJKN=A, BAL.=D



Arrangement	32-9	36L-78*	24-5
No. of Contacts	14	14	16
Contact Size	12-16, 2-4	12-8, 2-16	16
Service Rating	D	D	A



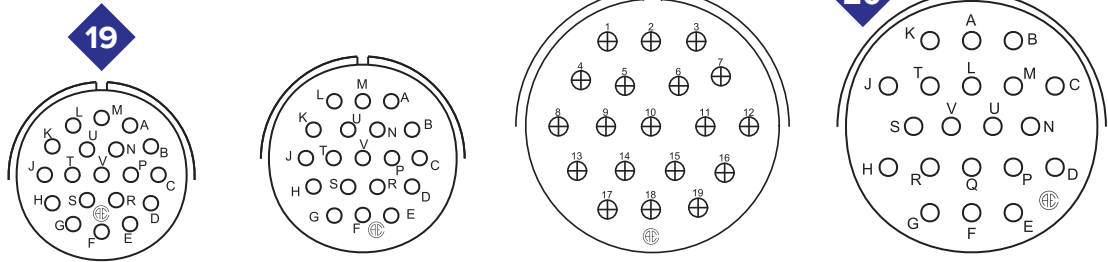
Arrangement	24-7	24L-16	28L-61
No. of Contacts	16	16	16
Contact Size	2-12, 14-16	4-12, 12-16	12
Service Rating	A	M,N,P,Q-INST., BAL-A	A



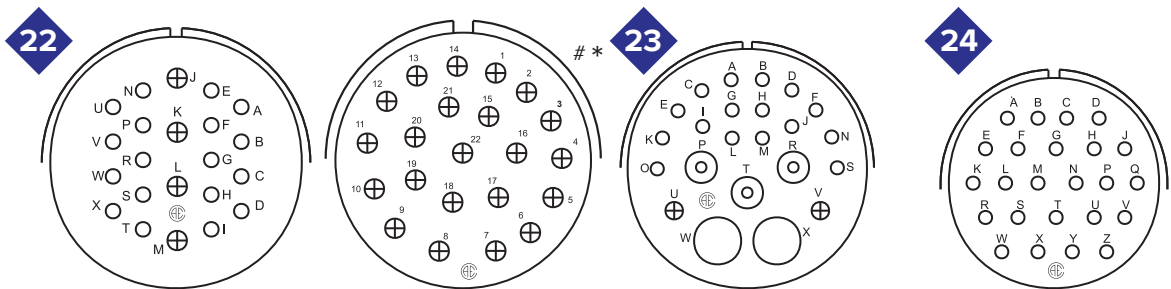
Arrangement	32L-68	36-14	20-29
No. of Contacts	16	16	17
Contact Size	4-4, 12-16	5-8, 5-12, 6-16	16
Service Rating	A	D	A

CONTACT LEGEND

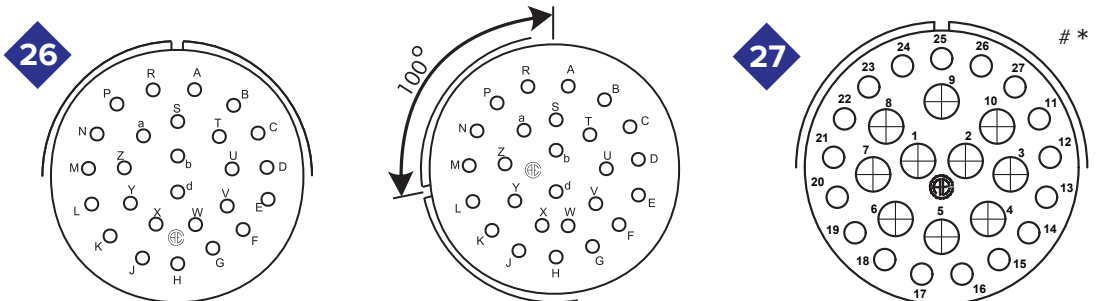
NOTE : Contact arrangement diagrams are for pictorial reference only, and are not drawn to scale
 * Consult factory before ordering



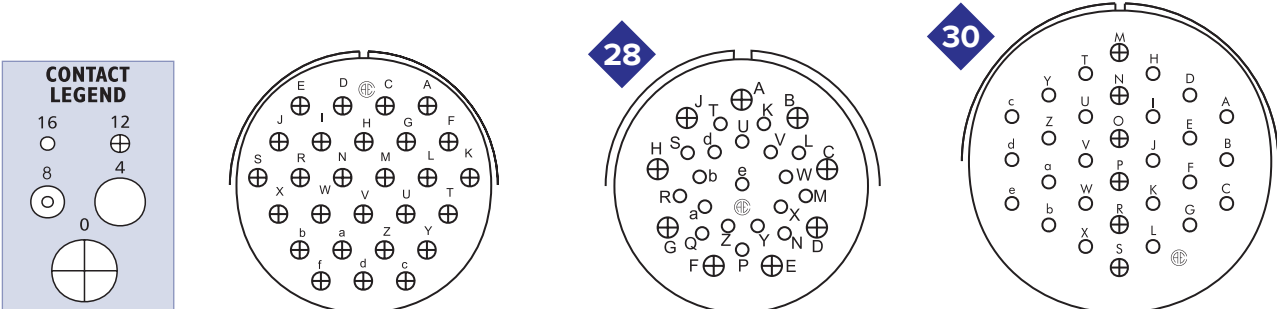
Arrangement	20L-48	22-14	32L-76	28-16
No. of Contacts	19	19	19	20
Contact Size	16	16	12	16
Service Rating	INST.	A	A	A



Arrangement	28-11	36GL-22	32-6	24-28
No. of Contacts	22	22	23	24
Contact Size	4-12, 18-16	12	2-4, 3-8, 2-12, 16-16	16
Service Rating	A	A	A	INST.



Arrangement	28-12	28-13	32 GL-27
No. of Contacts	26	26	27
Contact Size	16	16	10-12, 17-16
Service Rating	A	A	A



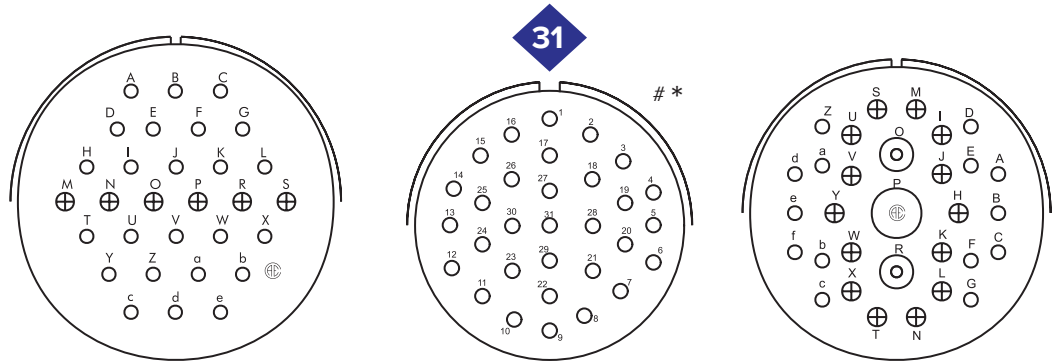
CONTACT LEGEND

16	12
○	⊕
8	4
○	○
0	○
⊕	⊕

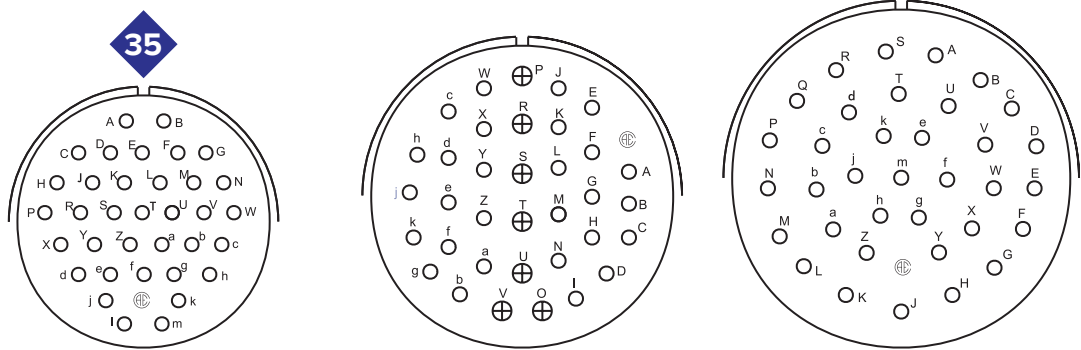
Arrangement	36L-46	28L-63	32-8
No. of Contacts	27	28	30
Contact Size	12	9-12, 19-16	6-12, 24-16
Service Rating	A	E=A. BAL=INST	A

Railway specific layout * Consult factory before ordering

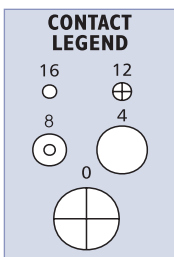
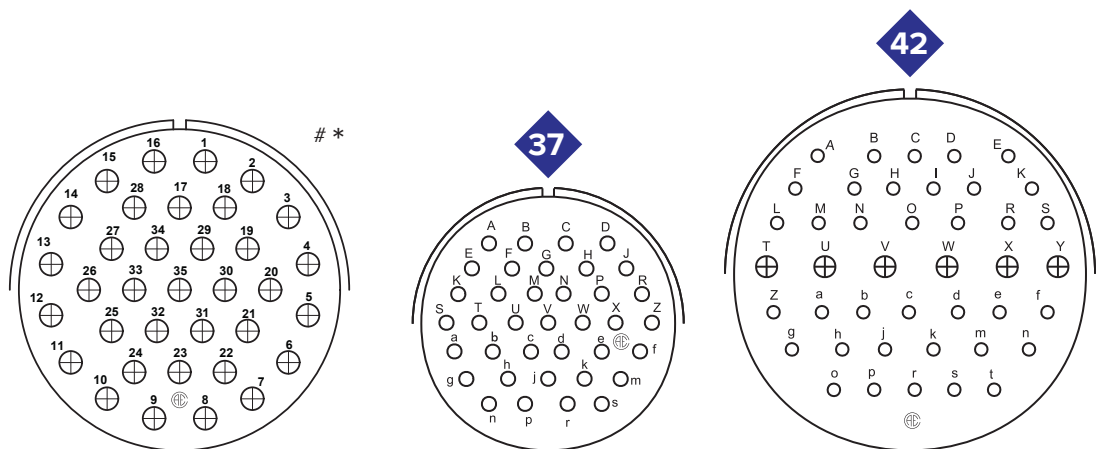
NOTE : Contact arrangement diagrams are for pictorial reference only, and are not drawn to scale



Arrangement	40-1	32GL-31	36-9
No. of Contacts	30	31	31
Contact Size	6-12, 24-16	16	1-4, 2-8, 14-12, 14-16
Service Rating	D	A	A



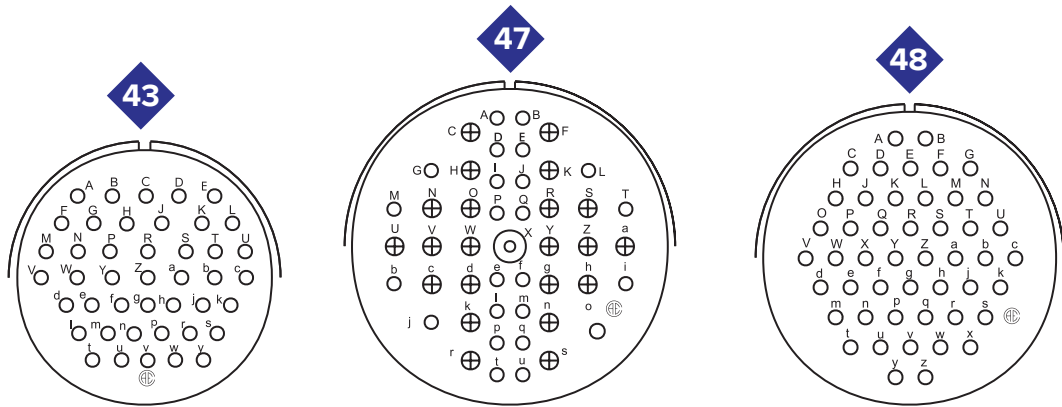
Arrangement	28-15	32-7	36-15
No. of Contacts	35	35	35
Contact Size	16	7-12, 28-16	16
Service Rating	A	ABHI = INST., BAL-A	m=D, BAL=A



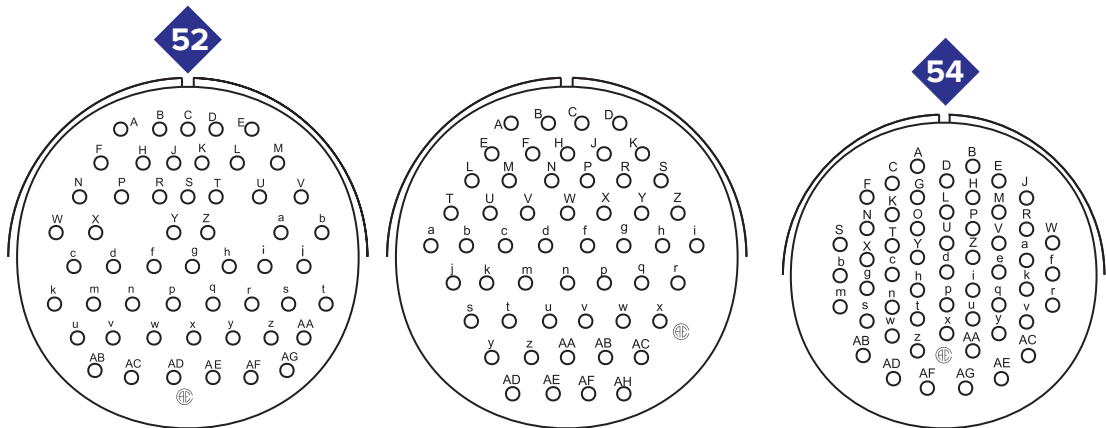
Arrangement	40GL-35	28-21	44-1
No. of Contacts	35	37	42
Contact Size	12	16	6-12, 36-16
Service Rating	D	A	D

NOTE : Contact arrangement diagrams are for pictorial reference only, and are not drawn to scale

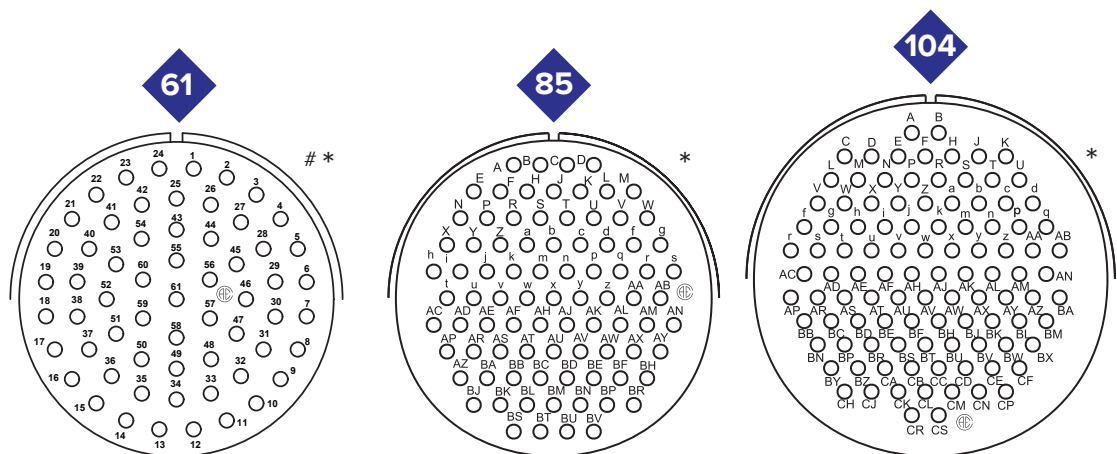
Railway specific layout * Consult factory before ordering



Arrangement	28L-51	40-9	36-10
No. of Contacts	43	47	48
Contact Size	16	1-8, 22-12, 24-16	16
Service Rating	A	A	A



Arrangement	36L-34	36-52	32L-10
No. of Contacts	52	52	54
Contact Size	16	16	16
Service Rating	A	A	A



CONTACT LEGEND





16 12

Arrangement	40GL-63	40-56	44-52
No. of Contacts	61	85	104
Contact Size	16	16	16
Service Rating	A	A	A





Railway specific layout * Consult factory before ordering

NOTE: Contact arrangement diagrams are for pictorial reference only, and are not drawn to scale

INSERT ARRANGEMENTS





INSERT NO.	TOTAL CONTACTS	CONTACT SIZE					ALTERNATE POSITIONS (DEGREES)			
		# 0	# 4	# 8	# 12	# 16	W 	X 	Y 	Z 
10SL-3	3	-	-	-	-	3	-	-	-	-
10SL-4	2	-	-	-	-	2	-	-	-	-
12S-3	2	-	-	-	-	2	70	145	215	290
12-5*	1	-	-	-	1	-	-	-	-	-
12SP-10*	4	-	-	-	-	4	-	-	-	-
14S-1*	3	-	-	-	-	3	-	-	-	-
14S-2	4	-	-	-	-	4	-	120	240	-
14S-4	1	-	-	-	-	1	-	-	-	-
14S-5	5	-	-	-	-	5	-	110	-	-
14S-6	6	-	-	-	-	6	-	-	-	-
14S-7	3	-	-	-	-	3	90	180	270	-
14S-9	2	-	-	-	-	2	70	145	215	290
14SL-61	7	-	-	-	-	7	-	-	-	-
16S-1	7	-	-	-	-	7	80	-	-	280
16S-4	2	-	-	-	-	2	35	110	250	325
16S-5	3	-	-	-	-	3	70	145	215	290
16S-8	5	-	-	-	-	5	-	170	265	-
16-9	4	-	-	-	2	2	35	110	250	325
16-10	3	-	-	-	3	-	90	180	270	-
16-11	2	-	-	-	2	-	35	110	250	325
16-12	1	-	1	-	-	-	-	-	-	-
16-40	4	-	-	-	1	3	-	-	-	-
18-1	10	-	-	-	-	10	70	145	215	290
18-3	2	-	-	-	2	-	35	110	250	325
18-4	4	-	-	-	-	4	35	110	250	325
18-5	3	-	-	-	2	1	80	110	250	280
18-8	8	-	-	-	1	7	70	-	-	290
18-9	7	-	-	-	2	5	80	110	250	280
18-10	4	-	-	-	4	-	-	120	240	-
18-11	5	-	-	-	5	-	-	170	265	-
18-12	6	-	-	-	-	6	80	-	-	280
18-15	4	-	-	-	4	-	-	120	240	-
18-16	1	-	-	-	1	-	-	-	-	-
18-19	10	-	-	-	-	10	-	120	240	-
18-20	5	-	-	-	-	5	90	180	270	-
18-99	9	-	-	-	-	9	-	-	-	-
20-2	1	1	-	-	-	-	-	-	-	-
20-3	3	-	-	-	3	-	70	145	215	290
20-4	4	-	-	-	4	-	45	110	250	-
20-7	8	-	-	-	-	8	80	110	250	280
20-8	6	-	-	2	-	4	80	110	250	280
20L-9*	9	-	-	-	9	-	-	110	250	-
20-11	13	-	-	-	-	13	-	-	-	-
20-14	5	-	-	2	3	-	80	110	250	280
20L-014*	14	-	-	-	2	12	-	-	-	-
20-15	7	-	-	-	7	-	80	-	-	280

* Consult factory before ordering

INSERT NO.	TOTAL CONTACTS	CONTACT SIZE					ALTERNATE POSITIONS (DEGREES)			
		# 0	# 4	# 8	# 12	# 16	W 	X 	Y 	Z 
20-16	9	-	-	-	2	7	80	110	250	280
20-17	6	-	-	-	5	1	90	180	270	-
20-18	9	-	-	-	3	6	35	110	250	325
20-19	3	-	-	3	-	-	90	180	270	-
20-21	9	-	-	-	1	8	35	110	250	325
20-22	6	-	-	3	-	3	80	110	250	280
20-23	2	-	-	2	-	-	35	110	250	325
20-24	4	-	-	2	-	2	35	110	250	325
20-27	14	-	-	-	-	14	35	110	250	325
20-29	17	-	-	-	-	17	80	-	-	280
20-33	11	-	-	-	-	11	-	-	-	-
20L-48*	19	-	-	-	-	19	-	80	280	-
22-2	3	-	-	3	-	-	70	145	215	290
22-5	6	-	-	-	2	4	35	110	250	325
22-7	1	1	-	-	-	-	-	-	-	-
22-8	2	-	-	-	2	-	35	110	150	325
22-9	3	-	-	-	3	-	70	145	215	290
22-10	4	-	-	-	-	4	35	110	250	325
22-11	2	-	-	-	-	2	35	110	250	325
22-14	19	-	-	-	-	19	80	110	250	280
22-15	6	-	-	-	5	1	80	110	250	280
22-16	9	-	-	-	3	6	80	110	250	280
22-18	8	-	-	-	-	8	80	110	250	280
22-19	14	-	-	-	-	14	80	110	250	280
22-20	9	-	-	-	-	9	35	110	250	325
22-22	4	-	-	4	-	-	-	110	250	-
22-23	8	-	-	-	8	-	35	-	250	-
22-28	7	-	-	-	7	-	80	-	-	280
22-29	7	-	1	-	-	6	80	110	250	280
22-33	7	-	-	-	-	7	80	110	250	280
22-34	5	-	-	-	3	2	80	110	250	280
24-2	7	-	-	-	7	-	80	-	-	280
24-4	4	1	-	-	-	3	80	110	250	280
24-5	16	-	-	-	-	16	80	110	250	280
24-6	8	-	-	-	8	-	80	110	250	280
24-7	16	-	-	-	2	14	80	110	250	280
24-9	2	-	2	-	-	-	35	110	250	325
24-10	7	-	-	7	-	-	80	-	-	280
24-11	9	-	-	3	6	-	35	110	250	325
24-12	5	-	2	-	3	-	80	110	250	280
24L-16*	16	-	-	-	4	12	-	-	-	-
24-20	11	-	-	-	2	9	80	110	250	280
24-21	10	-	-	1	-	9	80	110	250	280
24-22	4	-	-	4	-	-	45	110	250	-
24-27	7	-	-	-	-	7	80	-	-	280
24-28	24	-	-	-	-	24	80	110	250	280




* Consult factory before ordering

INSERT ARRANGEMENTS

INSERT NO.	TOTAL CONTACTS	CONTACT SIZE					ALTERNATE POSITIONS (DEGREES)			
		# 0	# 4	# 8	# 12	# 16	W 	X 	Y 	Z 
24L-58*	13	-	-	3	3	7	-	-	-	-
28-3	3	-	-	3	-	-	70	145	215	290
28-5	5	-	2	-	1	2	35	110	250	325
28-6	3	-	3	-	-	-	70	145	215	290
28L-6	6	-	-	6	-	-	-	-	-	-
28LI-7**	7	-	-	7	-	-	-	-	-	-
28-8	12	-	-	-	2	10	80	110	250	280
28-9	12	-	-	-	6	6	80	110	250	280
28-10	7	-	2	2	3	-	80	110	250	280
28-11	22	-	-	-	4	18	80	110	250	280
28-12	26	-	-	-	-	26	90	180	270	-
28-13	26	-	-	-	-	26	-	-	-	-
28-15	35	-	-	-	-	35	80	110	250	280
28-16	20	-	-	-	-	20	80	110	250	280
28L-16	9	-	4	-	-	5	-	-	-	-
28-18	12	-	-	-	-	12	70	145	215	290
28-19	10	-	-	-	4	6	80	110	250	280
28-20	14	-	-	-	10	4	80	110	250	280
28-21	37	-	-	-	-	37	80	110	250	280
28-22	6	-	3	-	-	3	70	145	215	290
28-51*	12	-	-	-	12	-	80	135	195	-
28L-51	43	-	-	-	-	43	-	-	-	-
28L-61	16	-	-	-	16	-	-	-	-	-
28L-63	28	-	-	-	9	19	-	100	260	-
32-3	9	1	2	-	2	4	80	110	250	280
32L-3**	3	-	3	-	-	-	22	44	76	98
32-4	14	-	-	-	2	12	80	110	250	280
32-5	2	2	-	-	-	-	35	110	250	325
32-6	23	-	2	3	2	16	80	110	250	280
32-7	35	-	-	-	7	28	80	125	235	280
32-8	30	-	-	-	6	24	80	125	235	280
32-9	14	-	2	-	-	12	80	110	250	280
32L-10	54	-	-	-	-	54	-	-	-	-
32-15	8	2	-	-	6	-	35	110	250	280
32-17	4	-	4	-	-	-	45	110	250	-
32L-50	5	-	5	-	-	-	-	-	-	-
32L-68	16	-	4	-	-	12	-	-	-	-
32L-76	19	-	-	-	19	-	80	110	250	280
36-3	6	3	-	-	3	-	70	145	215	290
36-4	3	3	-	-	-	-	70	145	215	290
36-5	4	4	-	-	-	-	-	120	240	-
36-9	31	-	1	2	14	14	80	125	235	280
36-10	48	-	-	-	-	48	80	125	235	280
36-14	16	-	-	5	5	6	90	180	270	-
36-15	35	-	-	-	-	35	60	125	245	305
36L-34	52	-	-	-	-	52	-	-	-	-
36L-46	27	-	-	-	27	-	-	-	-	-

* Consult factory before ordering ** Available in crimp version only

INSERT NO.	TOTAL CONTACTS	CONTACT SIZE				
		# 0	# 4	# 8	# 12	# 16
36-52	52	-	-	-	-	52
36L-78*	14	-	-	12	-	2
36L-100	10	-	-	10	-	-
40-1	30	-	-	-	6	24
40-9	47	-	-	1	22	24
40L-11	11	-	7	-	-	4
40-56	85	-	-	-	-	85
44-1*	42	-	-	-	6	36
44-52*	104	-	-	-	-	104

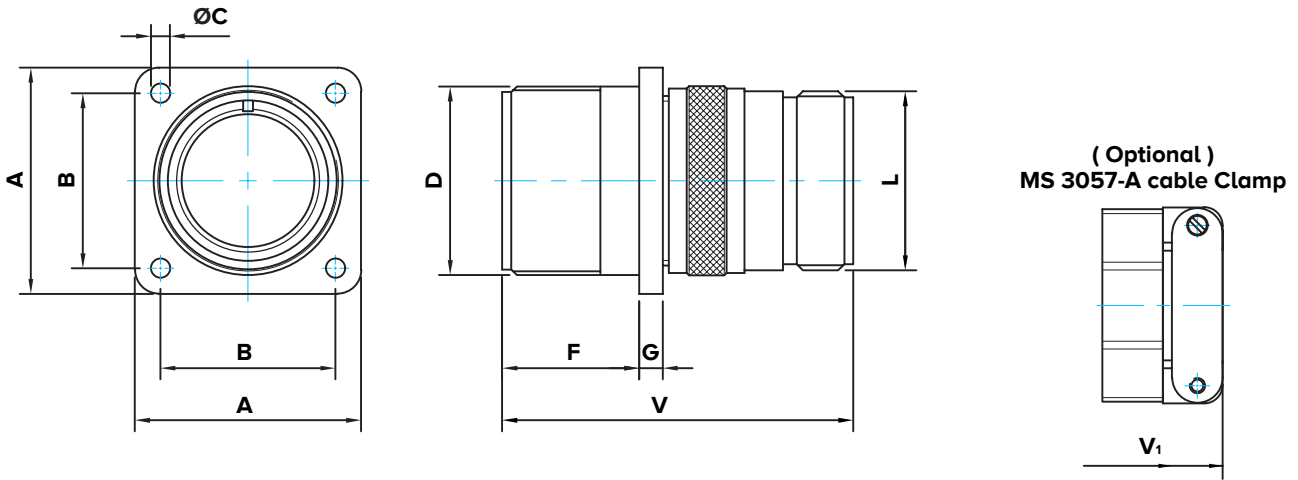
ALTERNATE POSITIONS (DEGREES) **			
			
72	144	216	288
-	-	-	-
-	-	-	-
65	130	235	300
65	125	225	310
-	-	-	-
72	144	216	288
65	125	225	310
-	-	-	-

FOR RAILWAY SPECIFIC APPLICATIONS**^						
18GL-11	5	-	-	-	5	-
22GL-14	19	-	-	-	-	19
24GL-07	7	-	-	-	7	-
28GL-21	37	-	-	-	-	37
32GL - 13	13	-	-	-	13	-
32GL - 27	27	-	-	-	10	17
32GL-31	31	-	-	-	-	31
36GL-22	22	-	-	-	22	-
40LA-4	4	4	-	-	-	-
40GL - 35	35	-	-	-	35	-
40GL-63	61	-	-	-	-	61

ALTERNATE POSITIONS AVAILABLE ON REQUEST, PLEASE CONSULT FACTORY

* Consult factory before ordering ^ Special crimp contacts applicable
 ~ Available in crimp version only

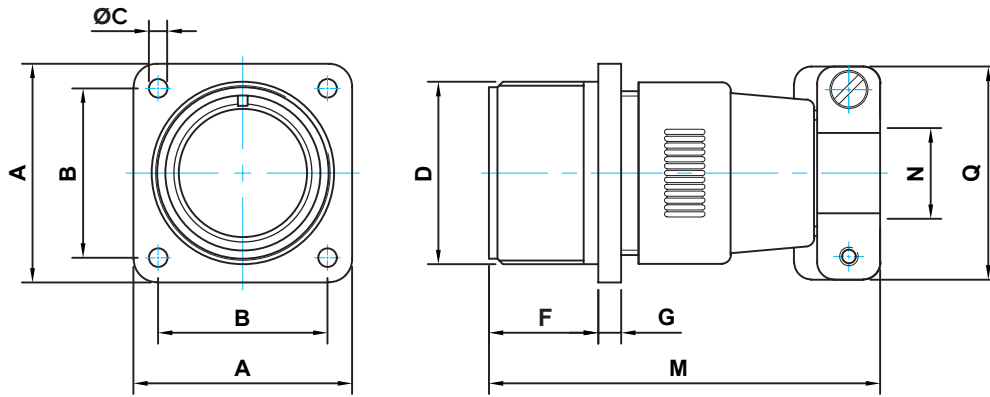
MS 3100E/A Wall mounting receptacle for Front Mounting with Endbell for flex tube



SHELL SIZE	A ±0.79	B ±0.13	ØC +0.25 -0.13	D UNEF - 2A Thread	F +0.79 -0.00	G REF	L UNEF - 2A Thread	V MAX	V ₁ MAX	MS 3057 TYPE A Cable Clamp
10SL	25.40	18.26	3.05	5/8" - 24	14.27	2.0	5/8" - 24	48.0	68.0	4A
12S	27.79	20.62		3/4" - 20		3.2	5/8" - 24	51.0	73.2	6A
14S	30.18	23.01		7/8" - 20				51.0	75.0	8A
16S	32.54	24.61		1" - 20	19.05	4.0	7/8" - 20	60.0	84.0	10A
16	32.54	24.61		1" - 20			7/8" - 20	60.0	84.0	10A
18	34.93	26.97		1 1/8" - 18			1" - 20	60.0	84.0	10A
20	38.10	29.36		1 1/4" - 18			1 3/16" - 18	66.0	89.0	12A
22	41.28	31.75		1 3/8" - 18	20.62	4.0	17/16" - 18	67.0	93.2	16A
24	44.45	34.92		1 1/2" - 18			17/16" - 18	67.0	93.2	16A
28	50.80	39.67		1 3/4" - 18			17/16" - 18	67.0	93.2	16A
32	57.15	44.45	3.73	2" - 18 UNS	20.62	4.0	1 3/4" - 18 UN	70.0	96.0	20A
36	63.50	49.23		2 1/4" - 16 UN			2" - 18 UNS	65.0	95.0	24A
40	69.85	55.58		2 1/2" - 16 UN			2 1/4" - 16 UN	70.0	115	28A

NOTE : Dimensions are not contractual & may be subject to changes

MS 3100F Wall mounting receptacle for Front Mounting with integral strain relief Cable Clamp
(includes Grommet & Follower)



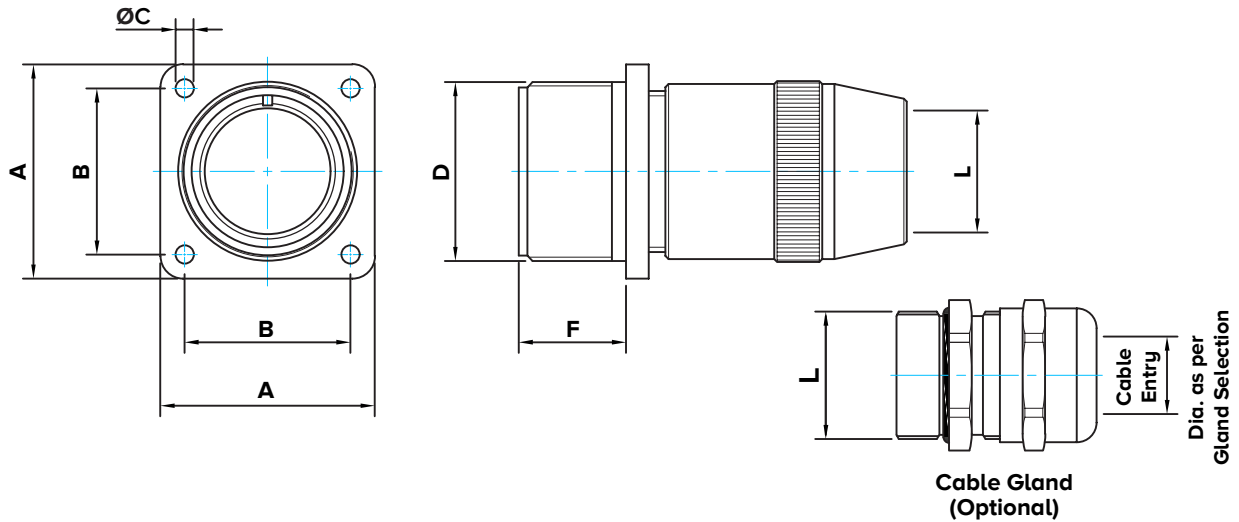
SHELL SIZE	A ±0.79	B ±0.13	ØC +0.79 -0.00	D UNEF - 2A Thread	F +0.79 -0.00	G REF	M MAX	N		Q MAX
								MIN	MAX	
10SL	25.40	18.26	3.05	5/8" - 24	14.27	2.0	60.0	3.6	7.5	23.0
12S	27.79	20.62		3/4" - 20						
14S	30.18	23.01		7/8" - 20						
16S	32.54	24.61		1" - 20						
16	34.93	26.97	3.73	1 1/8" - 18	19.05	3.2	72.0	6.5	13.8	30.5
18	38.10	29.36		1 1/4" - 18						
20	41.28	31.75		1 3/8" - 18						
22	44.45	34.92		1 1/2" - 18						
24	50.80	39.67	4.39	1 3/4" - 18	20.62	4.0	85.0	11.9	23.4	44.2
28	57.15	44.45		2" - 18 UNS						
32	63.50	49.23		2 1/4" - 16 UN						
36	69.85	55.58		2 1/2" - 16 UN						
40					22.23		81.0	15.9	31.3	52.7
							89.0	17.6	34.5	58.4
							105.0	23.1	34.5	68.5

NOTE : Dimensions are not contractual & may be subject to changes

MS 3100 F ADP P ___ / M ___ Wall Mounting Receptacle for Front Mounting with Adapter (& Cable Gland - Optional) (add 'G' at the end for Brass Gland (Nickel Plated) & 'NGB' for Nylon Gland [includes Grommet and follower])

Eg. : MS 3100F 14S-7P ADP P11 G

(Scope Wall Mount Receptacle 14S-7P with Adapter Backshell of PG11 Thd. with PG11 Brass Gland)

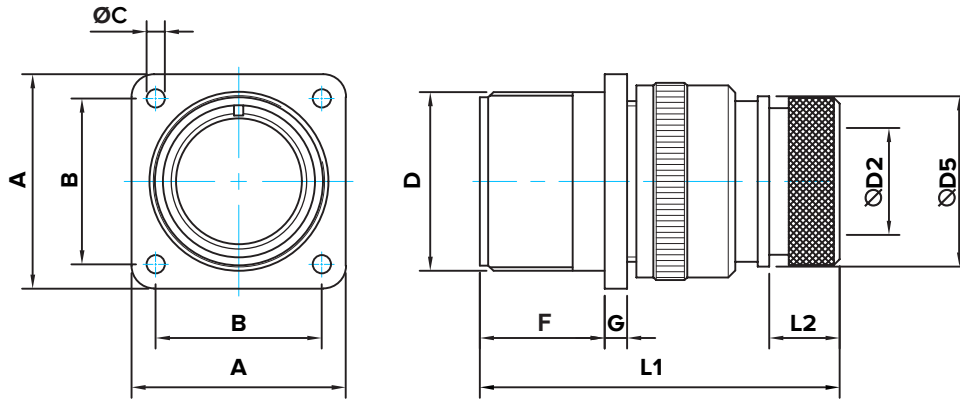


*Consult factory before ordering

SHELL SIZE	A ±0.79	B ±0.13	ØC +0.25 -0.13	D UNEF - 2A Thread	F +0.79 -0.00	L Thread	
						Metric	PG
10SL	25.40	18.26	3.05	5/8" - 24	14.27	M12 M16	PG7 PG9 PG11 PG13.5
12S	27.79	20.62		3/4" - 20		PG7 PG11	
14S	30.18	23.01		7/8" - 20		M16 M20 M25 PG7 PG9 PG11 PG13.5 PG16	
16S	32.54	24.61		1" - 20		M16 M20 M25 PG9 PG11 PG13.5 PG16	
16							
18	34.93	26.97	3.73	1 1/8" - 18	19.05	M16 M20 M25 M32	PG7 PG9 PG11 PG13.5 PG16 PG21 PG29
20	38.10	29.36		1 1/4" - 18		M20 M25 M32 M40 PG7 PG9 PG11 PG13.5 PG16 PG21 PG29	
22	41.28	31.75		1 3/8" - 18		M20 M25 M32 PG9 PG11 PG13.5 PG16 PG21 PG29	
24	44.45	34.92		1 1/2" - 18		M16 M20 M25 M32 M40 PG9 PG11 PG13.5 PG16 PG21 PG29	
28	50.80	39.67		1 3/4" - 18		M20 M25 M32 M40 PG11 PG16 PG21 PG29 PG36	
32	57.15	44.45	4.39	2" - 18 UNS	22.23	M20 M25 M32 M40	PG21 PG29 PG36
36	63.50	49.23		2 1/4" - 16 UN		M32 M40 PG21 PG29 PG36	
40	69.85	55.58		2 1/2" - 16 UN		M50 M63 PG29 PG36 PG48	

NOTE : Dimensions are not contractual & may be subject to changes

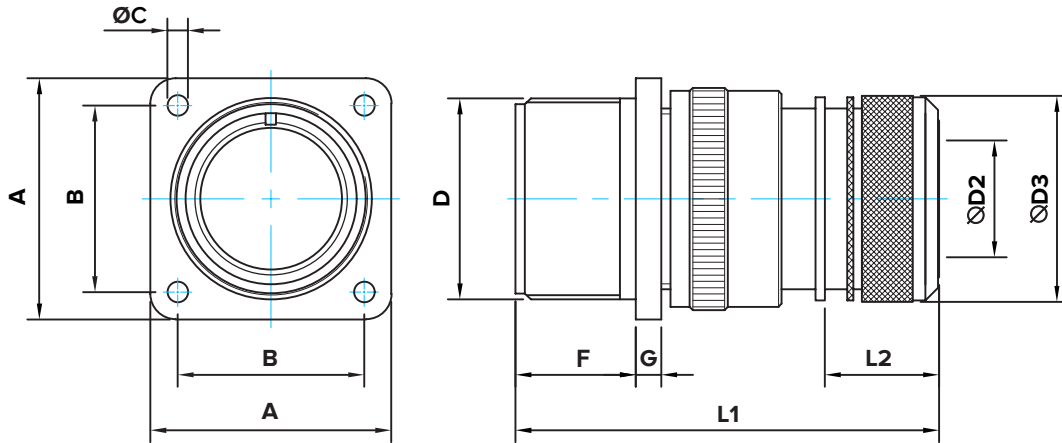
MS 3100G Wall mounting receptacle for Front Mounting with Adapter for heat shrink boot (includes Grommet & Follower)



SHELL SIZE	A ±0.79	B ±0.13	ØC +0.25 -0.13	D UNEF - 2A Thread	F +0.79 -0.00	G REF	D ₂ MIN	D ₅ MAX	L ₁ MAX	L ₂ ±0.5	
10SL	25.40	18.26	3.05	5/8" - 24	14.27	2.0	7.7	17.0	57.0	11.7	
12S	27.79	20.62		3/4" - 20		3.2					
14S	30.18	23.01		7/8" - 20			4.0	10.6			20.1
16S	32.54	24.61		1" - 20		13.5		23.5			58.8
16	34.93	26.97	3.73	1 1/8" - 18	19.05	4.0	14.6	26.5	68.6	11.5	
18	38.10	29.36		1 1/4" - 18			18.7	30.2			73.7
20	41.28	31.75		1 3/8" - 18			20.8	33.6	70.5		
22	44.45	34.92		1 1/2" - 18			24.6	38.1	70.0		
24	50.80	39.67	4.39	1 3/4" - 18	20.62	4.0	27.0	41.4	80.3	12.7	
28	57.15	44.45		2" - 18 UNS			33.3	48.6			
32	63.50	49.23		2 1/4" - 16 UN			38.5	54.8			78.5
36	69.85	55.58		2 1/2" - 16 UN							

NOTE : Dimensions are not contractual & may be subject to changes

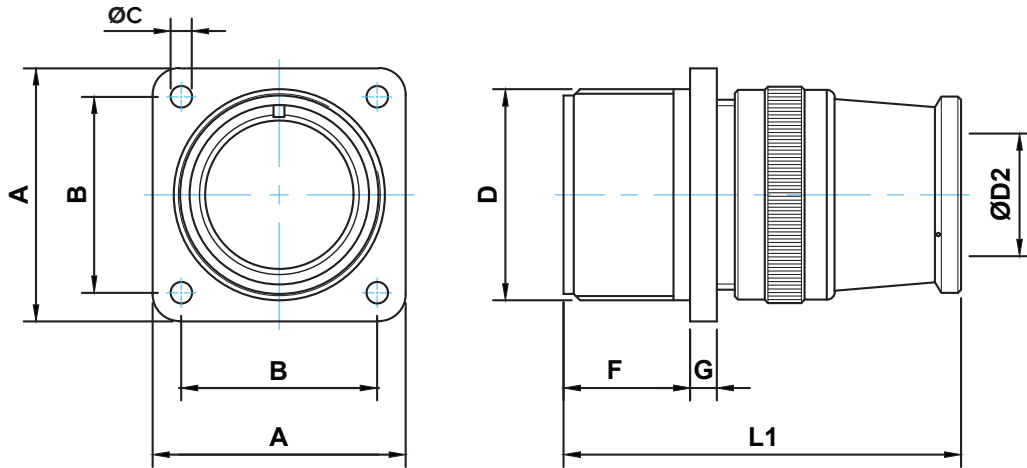
MS 3100M Wall mounting receptacle for Front Mounting with backshell for shielded cable and heat shrink boot termination (includes Grommet and Follower)



SHELL SIZE	A ±0.79	B ±0.13	ØC +0.25 -0.13	D UNEF - 2A Thread	F +0.79 -0.00	G REF	D ₂ MIN	D ₃ REF	L ₁ MAX	L ₂ ±0.5
10SL	25.40	18.26	3.05	5/8" - 24	14.27	2.0	7.70	18.5	61.5	17.0
12S	27.79	20.62		3/4" - 20		3.2				
14S	30.18	23.01		7/8" - 20			4.0			
16S	32.54	24.61		1" - 20		19.05		13.5	25.0	
16									75.4	
18	34.93	26.97		1 1/8" - 18			14.6	28.0	76.4	18.0
20	38.10	29.36		1 1/4" - 18			18.5	32.0	77.3	
22	41.28	31.75		1 3/8" - 18			20.8	34.0	71.7	
24	44.45	34.92	3.73	1 1/2" - 18	20.62	4.0	24.6	38.0	78.9	
28	50.80	39.67		1 3/4" - 18				27.0	41.0	
32	57.15	44.45		2" - 18 UNS			33.3	48.0	81.0	
36	63.50	49.23	4.39	2 1/4" - 16 UN	22.23		38.5	55.0	78.8	
40	69.85	55.58		2 1/2" - 16 UN			46.0	62.0		

NOTE : Dimensions are not contractual & may be subject to changes

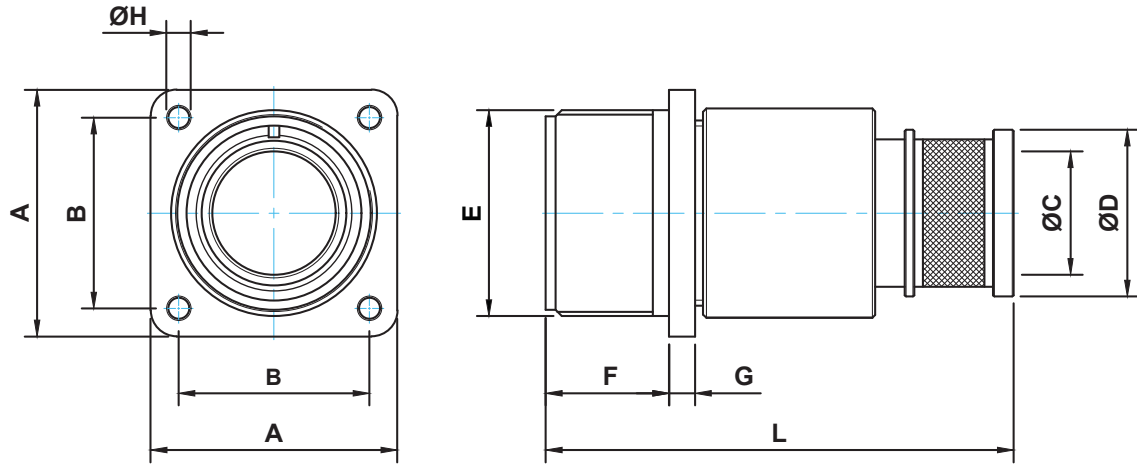
MS 3100R Wall mounting receptacle for Front Mounting with ' Short Endbell ' (includes Grommet and Follower)



SHELL SIZE	A ±0.79	B ±0.13	ØC +0.79 -0.00	D UNEF - 2A Thread	F +0.79 -0.00	G REF	D ₂ MIN	L ₁ MAX
10SL	25.40	18.26	3.05	5/8" - 24	14.27	2.0	8.0	52.0
12S	27.79	20.62		3/4" - 20				
14S	30.18	23.01		7/8" - 20				
16S	32.54	24.61		1" - 20	19.05	4.0	13.8	65.5
16								
18	34.93	26.97		1 1/8" - 18				
20	38.10	29.36		1 1/4" - 18				
22	41.28	31.75		1 3/8" - 18				
24	44.45	34.92		3.73	1 1/2" - 18	20.62	23.0	72.0
28	50.80	39.67			1 3/4" - 18			
32	57.15	44.45	4.39	2" - 18 UNS	22.23	32.0	72.0	
36	63.50	49.23		2 1/4" - 16 UN				
40	69.85	55.58		2 1/2" - 16 UN				

NOTE : Dimensions are not contractual & may be subject to changes

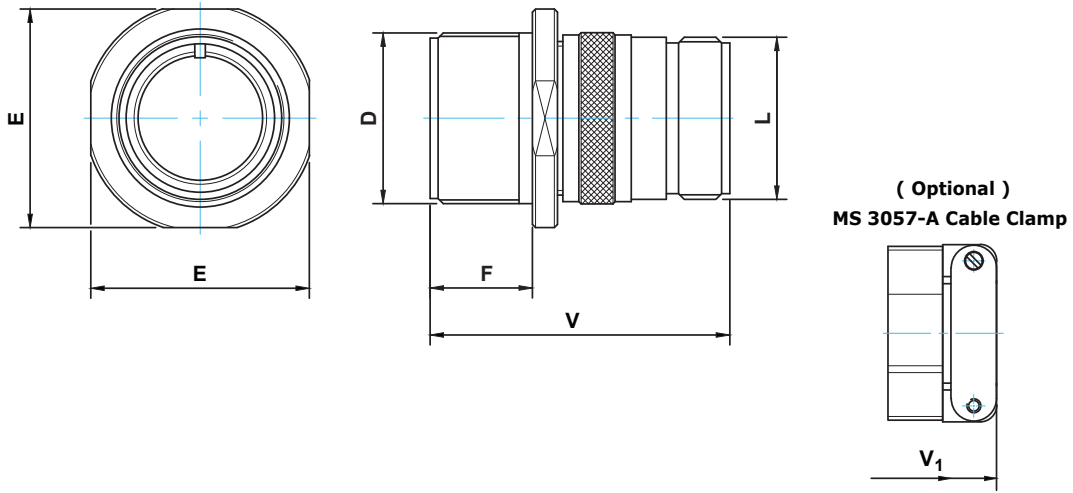
MS 3100F ADPBS Wall mount Connector with Adapter to terminate Shielded Braid with Band - Strap or Constant Force Spring, with heat shrink Boot (includes Grommet and Follower)



SHELL SIZE	A ±0.79	B ±0.13	ØC MIN	ØD REF	E UNEF - 2A Thread	F +0.79 -0.00	G REF	ØH +0.25 -0.13	L MAX
10SL	25.40	18.26	8.10	14.50	5/8" - 24	14.27	2.0	3.05	65.00
12S	27.79	20.62	8.10	14.50	3/4" - 20		3.2		
14S	30.18	23.01	11.10	17.50	7/8" - 20				
16S	32.54	24.61	13.00	19.40	1" - 20	19.05	4.0	3.73	84.00
16									
18	34.93	26.97	15.90	22.30	1 1/8" - 18				
20	38.10	29.36	20.60	27.10	1 1/4" - 18	20.62	4.0	3.73	84.00
22	41.28	31.75	21.00	27.40	1 3/8" - 18				
24	44.45	34.92	25.40	31.80	1 1/2" - 18				
28	50.80	39.67	28.60	35.00	1 3/4" - 18	22.23	4.0	4.39	84.00
32	57.15	44.45	33.50	40.00	2" - 18 UNS				
36	63.50	49.23	39.00	45.00	2 1/4" - 16 UN				

NOTE : Dimensions are not contractual & may be subject to changes

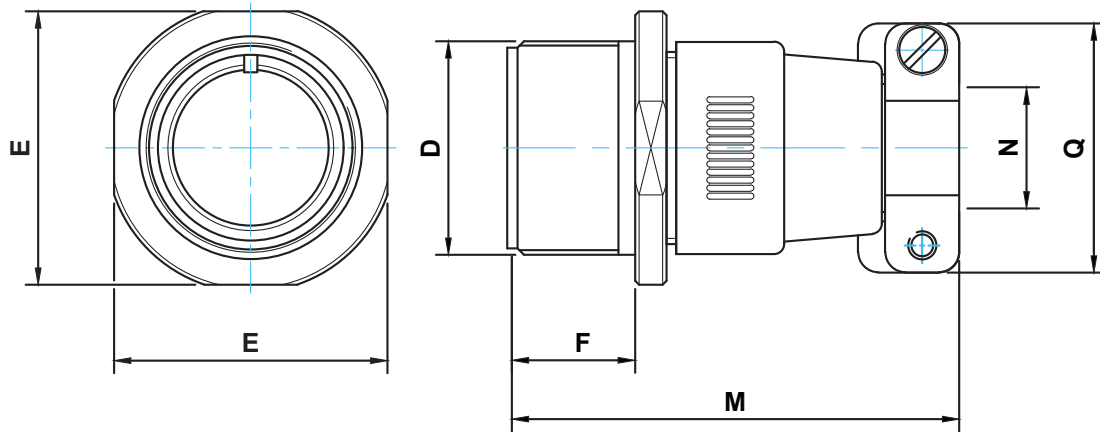
MS 3101E/A Cable connecting receptacle (in-line) for Extension with Endbell for flex tube



SHELL SIZE	D UNEF - 2A Thread	E ±0.79	F +0.79 -0.00	L UNEF - 2A Thread	V MAX	V ₁ MAX	MS 3057 TYPE A Cable Clamp
10SL	5/8" - 24	25.40	14.27	5/8" - 24	48.0	68.0	4A
12S	3/4" - 20	27.79		3/4" - 20	51.0	73.2	6A
14S	7/8" - 20	30.18					
16S	1" - 20	32.54	19.05	7/8" - 20	60.0	75.0	8A
16				1" - 20		84.0	10A
18	11/8" - 18	34.93					
20	11/4" - 18	38.10	20.62	13/16" - 18	66.0	89.0	12A
22	13/8" - 18	41.28		17/16" - 18	67.0	93.2	16A
24	11/2" - 18	44.45					
28	13/4" - 18	50.80	22.23	13/4" - 18 UN	70.0	96.0	20A
32	2" - 18 UNS	57.15			2" - 18 UNS	65.0	
36	2 1/4" - 16 UN	63.50					
40	2 1/2" - 16 UN	69.85	2 1/4" - 16 UN	70.0	115	28A	

NOTE : Dimensions are not contractual & may be subject to changes

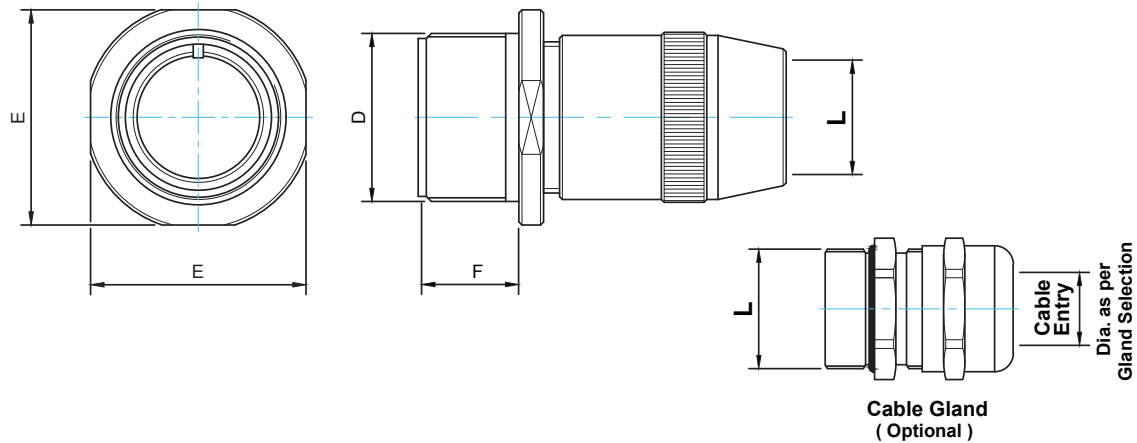
MS 3101F Cable connecting receptacle (in-line) with integral strain relief Cable Clamp (includes Grommet & Follower)



SHELL SIZE	D UNEF - 2A Thread	E ±0.79	F +0.79 -0.00	N		Q MAX	M MAX
				MIN	MAX		
10SL	5/8" - 24	25.40	14.27	3.60	7.50	23.0	60.0
12S	3/4" - 20	27.79					
14S	7/8" - 20	30.18					
16S	1" - 20	32.54					
16							
18	1 1/8" - 18	34.93	19.05	7.30	15.50	33.0	76.0
20	1 1/4" - 18	38.10					
22	1 3/8" - 18	41.28					
24	1 1/2" - 18	44.45	20.62	11.90	23.40	44.2	84.5
28	1 3/4" - 18	50.80					
32	2" - 18 UNS	57.15					
36	2 1/4" - 16 UN	63.50	22.23	17.60	34.50	58.4	89.0
40	2 1/2" - 16 UN	69.85					

NOTE : Dimensions are not contractual & may be subject to changes

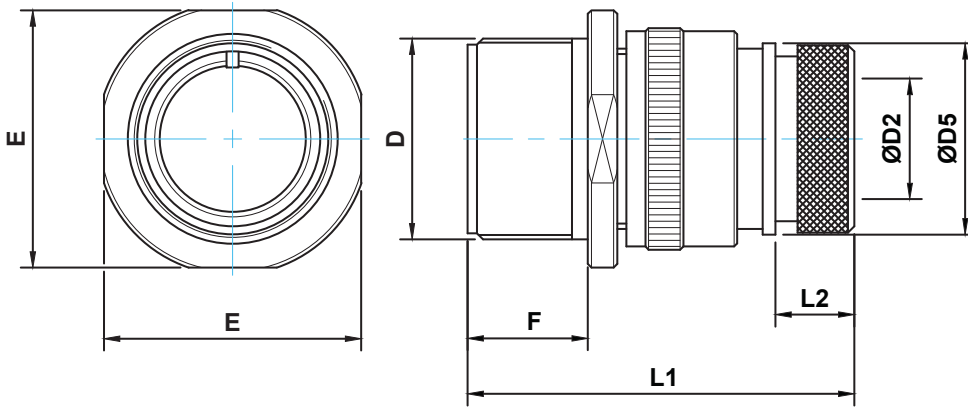
MS 3101 F ADP P ___ / M ___ Cable Connecting Receptacle with Adapter (& Cable Gland - Optional)
 (add 'G' at the end for Brass Gland (Nickel Plated) & 'NGB' for Nylon Gland [includes Grommet and follower])
 Eg. : MS 3101F 14S-7P ADP P11 G
 (Scope Cable Connecting Receptacle 14S-7P with Adapter Backshell of PG11 Thd. with PG11 Brass Gland)



SHELL SIZE	D UNEF - 2A Thread	E ±0.79	F +0.79 -0.00	L Thread	
				Metric	PG
10SL	5/8" - 24	25.40	14.27	M12 M16	PG7 PG9 PG11 PG13.5
12S	3/4" - 20	27.79		PG7 PG11	
14S	7/8" - 20	30.18		M16 M20 M25	PG7 PG9 PG11 PG13.5 PG16
16S	1" - 20	32.54		M16 M20 M25	PG9 PG11 PG13.5 PG16
16					
18	1 1/8" - 18	34.93	19.05	M16 M20 M25 M32	PG7 PG9 PG11 PG13.5 PG16 PG21 PG29
20	1 1/4" - 18	38.10		M20 M25 M32 M40	PG7 PG9 PG11 PG13.5 PG16 PG21 PG29
22	1 3/8" - 18	41.28		M20 M25 M32	PG9 PG11 PG13.5 PG16 PG21 PG29
24	1 1/2" - 18	44.45		M16 M20 M25 M32 M40	PG9 PG11 PG13.5 PG16 PG21 PG29
28	1 3/4" - 18	50.80	20.62	M20 M25 M32 M40	PG11 PG16 PG21 PG29 PG36
32	2" - 18 UNS	57.15		M20 M25 M32 M40	PG21 PG29 PG36
36	2 1/4" - 16 UN	63.50	22.23	M32 M40	PG21 PG29 PG36
40	2 1/2" - 16 UN	69.85		M50 M63	PG29 PG36 PG48

NOTE : Dimensions are not contractual & may be subject to changes

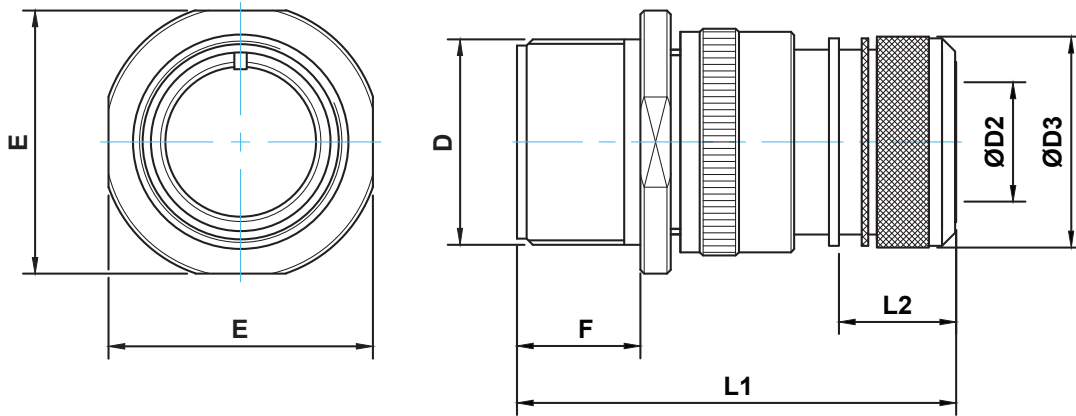
MS 3101G Cable connecting receptacle (in-line) for Extension with Adapter for heat shrink boot (includes Grommet & Follower)



SHELL SIZE	D UNEF - 2A Thread	E ±0.79	F +0.79 -0.00	D ₂ MIN	D ₅ MAX	L ₁ MAX	L ₂ ±0.5
10SL	5/8" - 24	25.40	14.27	7.7	17.0	57.0	11.7
12S	3/4" - 20	27.79					
14S	7/8" - 20	30.18					
16S	1" - 20	32.54	19.05	13.5	23.5	68.6	11.5
16							
18	1 1/8" - 18	34.93					
20	1 1/4" - 18	38.10	20.62	18.7	30.2	73.7	12.7
22	1 3/8" - 18	41.28					
24	1 1/2" - 18	44.45					
28	1 3/4" - 18	50.80	22.23	27.0	41.4	70.0	15.2
32	2" - 18 UNS	57.15					
36	2 1/4" - 16 UN	63.50					
40	2 1/2" - 16 UN	69.85					

NOTE : Dimensions are not contractual & may be subject to changes

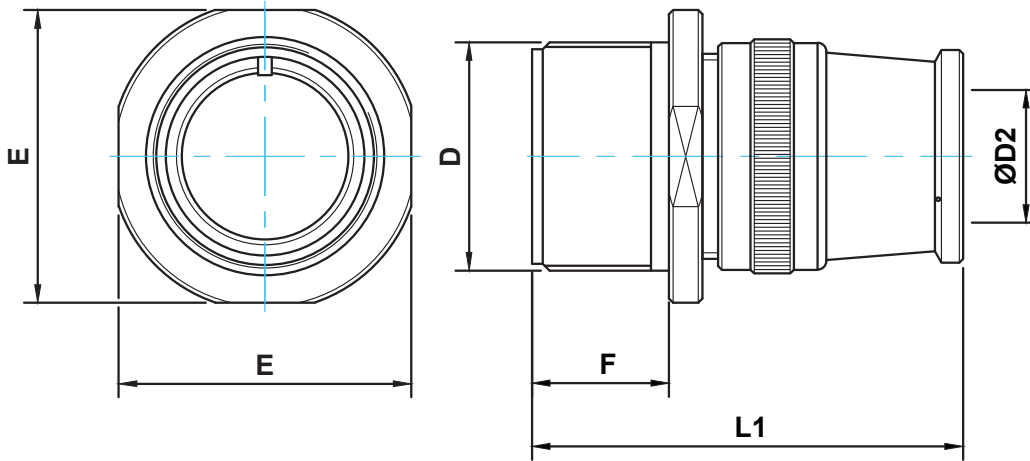
MS 3101M Cable connecting receptacle (in-line) with Adapter for shielded Cable & heat shrink boot Termination (Includes Grommet and Follower)



SHELL SIZE	D UNEF - 2A Thread	E ±0.79	F +0.79 -0.00	D ₂ MIN	D ₃ REF	L ₁ MAX	L ₂ ±0.5
10SL	5/8" - 24	25.40	14.27	7.70	18.5	61.5	17.0
12S	3/4" - 20	27.79					
14S	7/8" - 20	30.18					
16S	1" - 20	32.54	19.05	13.5	25.0	61.5	18.0
16						75.4	
18	1 1/8" - 18	34.93				76.4	
20	1 1/4" - 18	38.10	77.3				
22	1 3/8" - 18	41.28	71.7				
24	1 1/2" - 18	44.45	20.62	24.6	38.0	78.9	
28	1 3/4" - 18	50.80		27.0	41.0	75.2	
32	2" - 18 UNS	57.15	22.23	33.3	48.0	81.0	
36	2 1/4" - 16 UN	63.50		38.5	55.0	78.8	
40	2 1/2" - 16 UN	69.85		46.0	62.0		

NOTE : Dimensions are not contractual & may be subject to changes

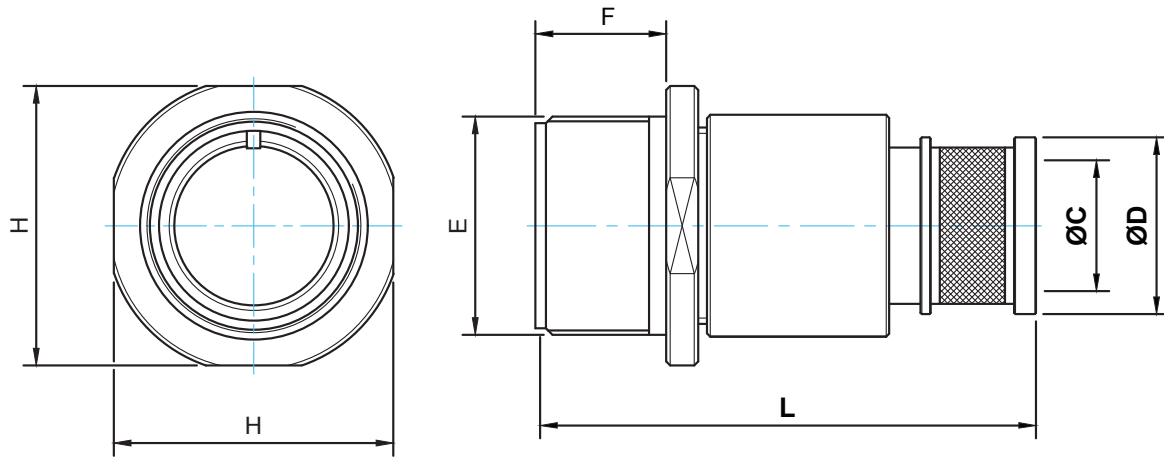
MS 3101R Cable connecting receptacle (in-line) for Cable Extension with short Endbell (includes Grommet & Follower)



SHELL SIZE	D UNEF - 2A Thread	E ±0.79	F +0.79 -0.00	D ₂ MIN	L ₁ MAX
10SL	5/8" - 24	25.40	14.27	8.0	52.0
12S	3/4" - 20	27.79		10.8	
14S	7/8" - 20	30.18			
16S	1" - 20	32.54	19.05	13.8	53.0
16					65.5
18	1 1/8" - 18	34.93		16.0	64.0
20	1 1/4" - 18	38.10		19.0	69.0
22	1 3/8" - 18	41.28			
24	1 1/2" - 18	44.45		20.62	23.0
28	1 3/4" - 18	50.80	24.0		
32	2" - 18 UNS	57.15	22.23	32.0	72.0
36	2 1/4" - 16 UN	63.50		35.5	
40	2 1/2" - 16 UN	69.85			

NOTE : Dimensions are not contractual & may be subject to changes

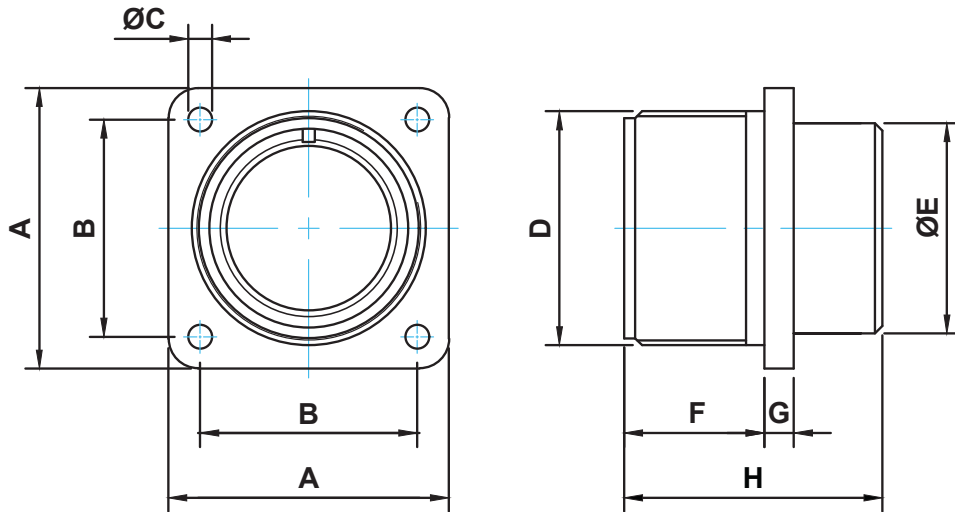
MS 3101F ADPBS Cable connecting receptacle (in-line) for Cable Extension with Adapter to terminate Shielded Braid with Band - Strap or Constant Force Spring, with heat shrink Boot (includes Grommet & Follower)



SHELL SIZE	E UNEF - 2A Thread	H ±0.79	ØC MIN	ØD REF	F +0.79 -0.00	L MAX
10SL	5/8" - 24	25.40	8.10	14.50	14.27	65.00
12S	3/4" - 20	27.79		17.50		
14S	7/8" - 20	30.18	11.10			
16S	5/8" - 24	32.54	13.00	19.40	19.05	84.00
16						
18	1 1/8" - 18	34.93	15.90	22.30		
20	1 1/4" - 18	38.10	20.60	27.10		
22	1 3/8" - 18	41.28	21.00	27.40		
24	1 1/2" - 18	44.45	25.40	31.80		
28	1 3/4" - 18	50.80	28.60	35.00	20.62	
32	2" - 18 UNS	57.15	33.50	40.00		
36	2 1/4" - 16 UN	63.50	39.00	45.00		
					22.23	

NOTE : Dimensions are not contractual & may be subject to changes

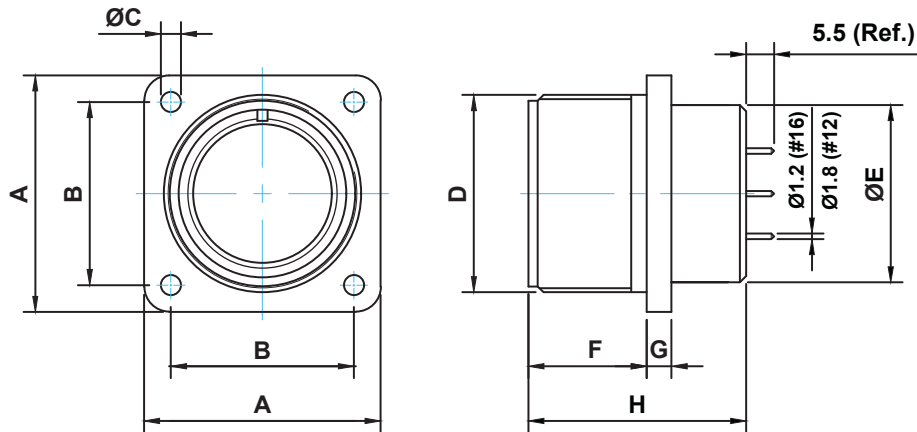
MS 3102R ... Box mounting receptacle for Front mounting



SHELL SIZE	A ±0.79	B ±0.13	ØC +0.25 -0.13	D UNEF - 2A Thread	F +0.79 -0.00	G REF	H REF	ØE MAX	
10SL	25.40	18.26	3.05	5/8" - 24	14.27	2.0	25.0	16.2	
12S	27.79	20.62		3/4" - 20		3.2			25.4
14S	30.18	23.01		7/8" - 20			24.7	22.4	
16S	32.54	24.61		1" - 20		19.05			33.8
16	34.93	26.97		1 1/8" - 18	35.0		29.0		
18	38.10	29.36		1 1/4" - 18				34.8	
20	41.28	31.75		1 3/8" - 18	20.62		35.7		
22	44.45	34.92		1 1/2" - 18		37.3		47.8	
24	50.80	39.67		1 3/4" - 18					54.2
28	57.15	44.45		2" - 18 UNS		60.5			
32	63.50	49.23	2 1/4" - 16 UN						
36	69.85	55.58	2 1/2" - 16 UN						

NOTE : Dimensions are not contractual & may be subject to changes

MS 3102Y* ... Box mounting receptacle for Front mounting with 'PCB Contacts'

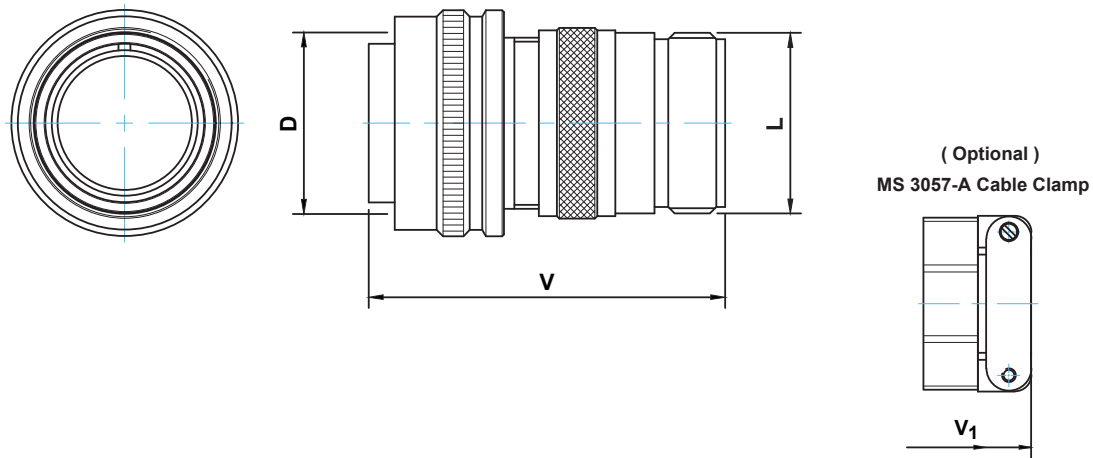


*Available in select configurations only : Please consult factory

SHELL SIZE	A ±0.79	B ±0.13	ØC +0.25 -0.13	D UNEF - 2A Thread	F +0.79 -0.00	G REF	H REF	ØE MAX
10SL	25.40	18.26	3.05	5/8" - 24	14.27	2.0	25.0	16.2
12S	27.79	20.62		3/4" - 20		3.2		
14S	30.18	23.01		7/8" - 20			24.7	22.4
16S	32.54	24.61		1" - 20		19.05		
16	34.93	26.97		1 1/8" - 18	35.0		29.0	
18	38.10	29.36		1 1/4" - 18				34.8
20	41.28	31.75		1 3/8" - 18	4.0		35.7	
22	44.45	34.92		1 1/2" - 18		20.62		37.3
24	50.80	39.67		1 3/4" - 18			22.23	
28	57.15	44.45		2" - 18 UNS		22.23		37.3
32	63.50	49.23	2 1/4" - 16 UN					
36	69.85	55.58	2 1/2" - 16 UN					

NOTE : Dimensions are not contractual & may be subject to changes

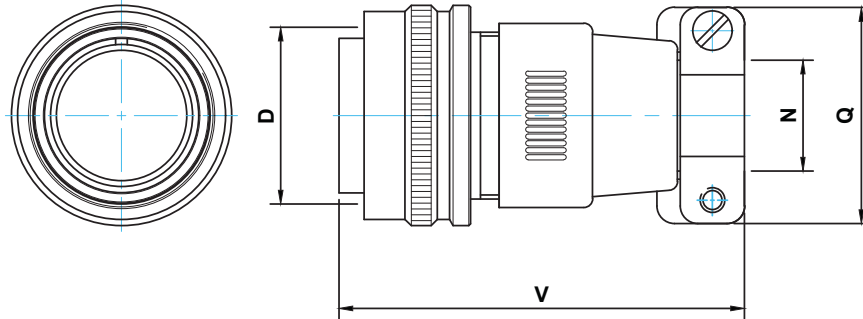
MS 3106E/A ... Straight cable connector with Endbell for flex tube



SHELL SIZE	D UNEF - 2B Thread	L UNEF - 2A Thread	V MAX	V ₁ MAX	MS 3057 TYPE A Cable Clamp
10SL	5/8" - 24	5/8" - 24	48.0	68.0	4A
12S	3/4" - 20				
14S	7/8" - 20	3/4" - 20	50.0	72.0	6A
16S	1" - 20	7/8" - 20			
16		1" - 20	1" - 20	62.3	70.0
18	1 1/8" - 18				
20	1 1/4" - 18	1 3/16" - 18	69.2	93.0	12A
22	1 3/8" - 18				
24	1 1/2" - 18	1 7/16" - 18	67.5	93.5	16A
28	1 3/4" - 18				
32	2" - 18 UNS	1 3/4" - 18 UN	71.0	99.0	20A
36	2 1/4" - 16 UN	2" - 18 UNS	67.5	97.5	24A
40	2 1/2" - 16 UN	2 1/4" - 16 UN		128	28A

NOTE : Dimensions are not contractual & may be subject to changes

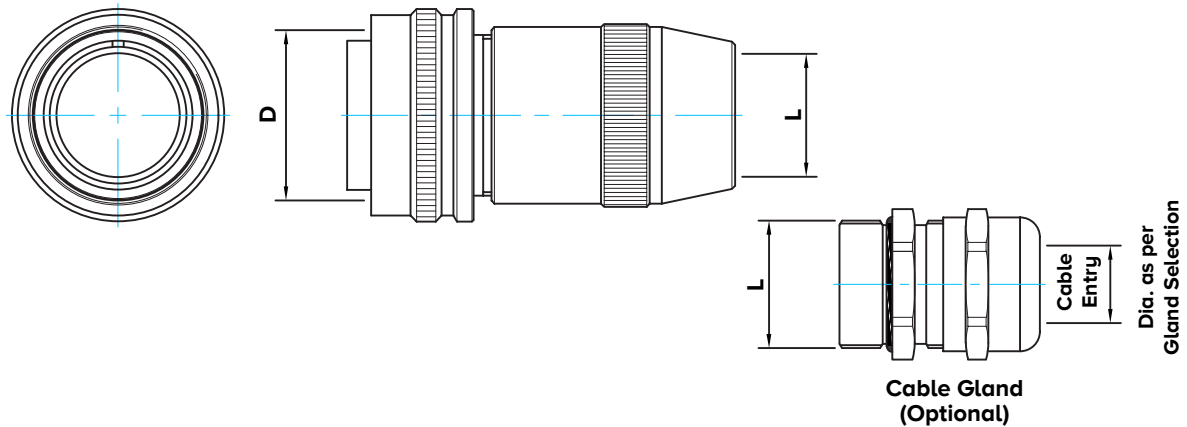
MS 3106F Straight cable connector with Integral Strain Relief Cable Clamp (includes Grommet and follower)



SHELL SIZE	D UNEF - 2B Thread	N		Q MAX	V MAX
		MIN	MAX		
10SL	5/8" - 24	3.60	7.50	23.0	60.0
12S	3/4" - 20				
14S	7/8" - 20	5.00	10.70	28.0	62.0
16S	1" - 20	6.50	13.80	30.5	64.5
16					74.0
18	1 1/8" - 18	7.30	15.50	33.0	78.0
20	1 1/4" - 18	8.90	18.50	38.1	80.0
22	1 3/8" - 18				77.5
24	1 1/2" - 18	11.90	23.40	44.2	85.0
28	1 3/4" - 18				88.0
32	2" - 18 UNS	15.90	31.30	52.7	82.0
36	2 1/4" - 16 UN	17.60	34.50	58.4	92.0
40	2 1/2" - 16 UN	23.10	34.50	68.5	128

NOTE : Dimensions are not contractual & may be subject to changes

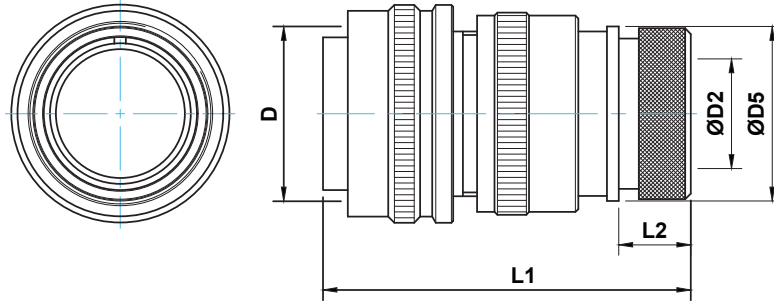
MS 3106 F ADP P ___ / M ___ Straight Cable Connector with Adapter (& Cable Gland - Optional)
 (add 'G' at the end for Brass Gland (Nickel Plated) & 'NGB' for Nylon Gland) (includes Grommet and follower)
 Eg. : MS 3106F 14S-7P ADP P11 G
 (Scope Straight Cable Connector 14S-7P with Adapter Backshell of PG11 Thd. with PG11 Brass Gland)



SHELL SIZE	D UNEF - 2B Thread	L Thread	
		Metric	PG
10SL	5/8" - 24	M12 M16	PG7 PG9 PG11 PG13.5
12S	3/4" - 20	-----	PG7 PG11
14S	7/8" - 20	M16 M20 M25	PG7 PG9 PG11 PG13.5 PG16
16S	1" - 20	M16 M20 M25	PG9 PG11 PG13.5 PG16
16			
18	1 1/8" - 18	M16 M20 M25 M32	PG7 PG9 PG11 PG13.5 PG16 PG21 PG29
20	1 1/4" - 18	M20 M25 M32 M40	PG7 PG9 PG11 PG13.5 PG16 PG21 PG29
22	1 3/8" - 18	M20 M25 M32	PG9 PG11 PG13.5 PG16 PG21 PG29
24	1 1/2" - 18	M16 M20 M25 M32 M40	PG9 PG11 PG13.5 PG16 PG21 PG29
28	1 3/4" - 18	M20 M25 M32 M40	PG11 PG16 PG21 PG29 PG36
32	2" - 18 UNS	M20 M25 M32 M40	PG21 PG29 PG36
36	2 1/4" - 16 UN	M32 M40	PG21 PG29 PG36
40	2 1/2" - 16 UN	M50 M63	PG29 PG36 PG48

NOTE : Dimensions are not contractual & may be subject to changes

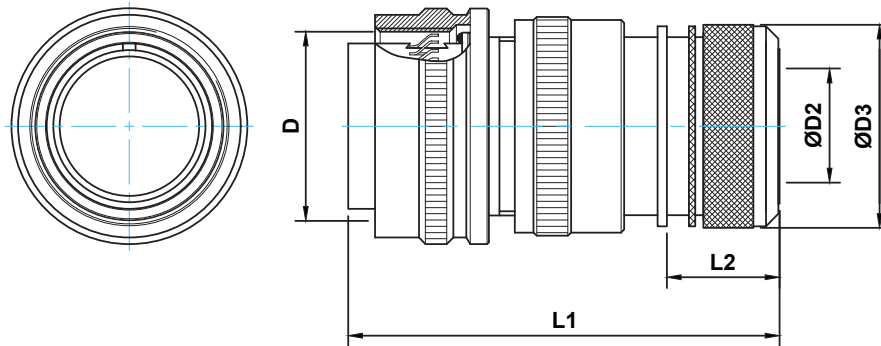
MS 3106G Straight cable connector with Adapter for heat shrink boot (includes Grommet and follower)



SHELL SIZE	D UNE F - 2B Thread	D ₂ MIN	D ₅ MAX	L ₁ MAX	L ₂ ±0.5
10SL	5/8" - 24	7.7	17.0	56.5	11.7
12S	3/4" - 20				
14S	7/8" - 20				
16S	1" - 20	13.5	23.5	58.3	11.5
16					
18	1 1/8" - 18	14.6	26.5	70.6	12.7
20	1 1/4" - 18	18.7	30.2	76.9	
22	1 3/8" - 18	20.8	33.6	72.0	
24	1 1/2" - 18	24.6	38.1	70.55	
28	1 3/4" - 18	27.0	41.4	81.0	15.2
32	2" - 18 UNS	33.3	48.6		
36	2 1/4" - 16 UN	38.5	54.8		
40	2 1/2" - 16 UN				

NOTE : Dimensions are not contractual & may be subject to changes

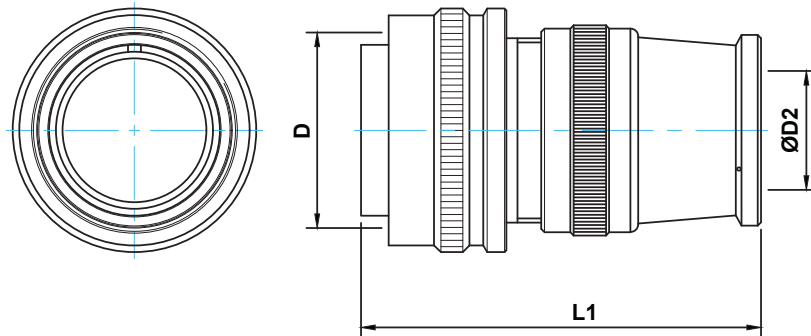
MS 3106M Straight cable connector with RFI shield spring & back shell for Shielded braid & heat shrinkable boot termination (includes Grommet and follower)



SHELL SIZE	D UNEF - 2B Thread	D ₂ MIN	D ₃ REF	L ₁ MAX	L ₂ ±0.5
10SL	5/8" - 24	7.70	18.5	61.0	11.7
12S	3/4" - 20				
14S	7/8" - 20				
16S	1" - 20	13.5	25.0	61.0	18.0
16				77.2	
18	1 1/8" - 18	14.6	28.0	80.5	
20	1 1/4" - 18	18.5	32.0		
22	1 3/8" - 18	20.8	34.0	73.0	
24	1 1/2" - 18	24.6	38.0	79.4	
28	1 3/4" - 18	27.0	41.0	78.3	
32	2" - 18 UNS	33.3	48.0	82.0	
36	2 1/4" - 16 UN	38.5	55.0	81.3	
40	2 1/2" - 16 UN	46.0	62.0		

NOTE : Dimensions are not contractual & may be subject to changes

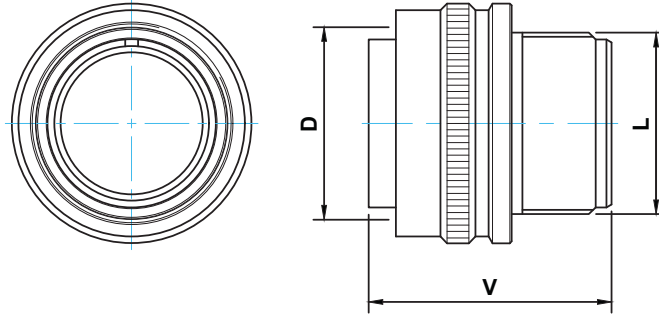
MS 3106R Straight cable connector with short Endbell (includes Grommet and follower)



SHELL SIZE	D UNEF - 2B Thread	D ₂ MIN	L ₁ MAX
10SL	5/8" - 24	8.0	52.0
12S	3/4" - 20		
14S	7/8" - 20	10.8	
16S	1" - 20	13.8	67.5
16			
18	1 1/8" - 18	16.0	66.0
20	1 1/4" - 18	19.0	72.0
22	1 3/8" - 18	19.0	70.0
24	1 1/2" - 18	23.0	
28	1 3/4" - 18	24.0	75.5
32	2" - 18 UNS	32.0	75.0
36	2 1/4" - 16 UN	35.5	74.5
40	2 1/2" - 16 UN		67.0

NOTE : Dimensions are not contractual & may be subject to changes

MS 3106T...211* Straight cable connector with Accessory thread (Less back shell & Grommet)

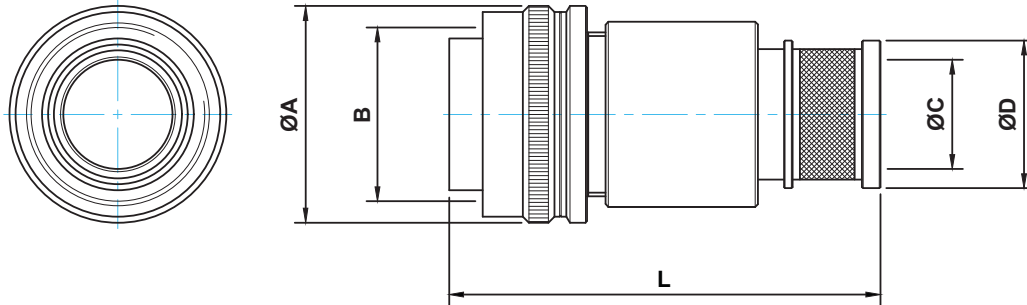


***Consult factory before ordering**

SHELL SIZE	D UNEF - 2B Thread	V MAX	L UNEF - 2A Thread
10SL	5/8" - 24	28.0	9/16" - 24
12S	3/4" - 20		5/8" - 24
14S	7/8" - 20	27.8	3/4" - 20
16S	1" - 20	28.0	7/8" - 20
16		35.8	1" - 20
18	1 1/8" - 18		38.2
20	1 1/4" - 18	36.25	1 1/4" - 18
22	1 3/8" - 18	36.2	1 3/8" - 18
24	1 1/2" - 18	38.8	1 5/8" - 18
28	1 3/4" - 18	38.0	1 7/8" - 16 UN
32	2" - 18 UNS	37.8	2 1/8" - 16 UNS
36	2 1/4" - 16 UN	36.0	2 5/16" - 16 UNS
40	2 1/2" - 16 UN		

NOTE : Dimensions are not contractual & may be subject to changes

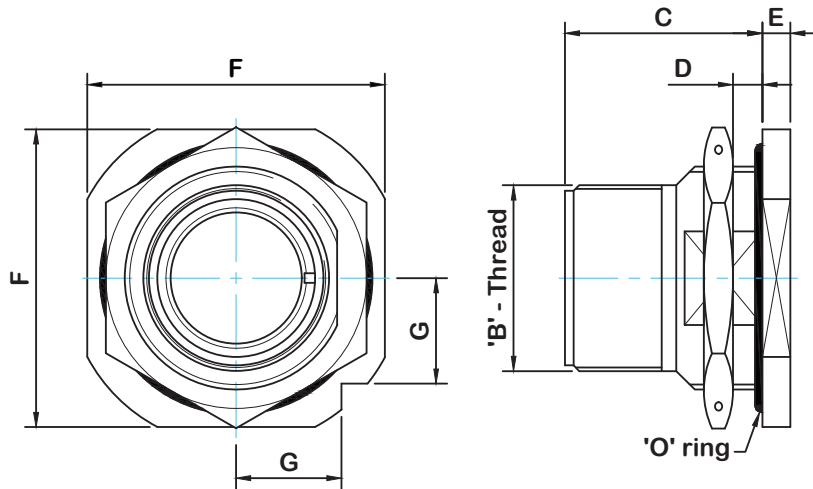
MS 3106F ADPBS Straight Cable Connector with Adapter to terminate Shielded Braid with Band - Strap or Constant Force Spring, with heat shrink Boot (includes Grommet & Follower)



SHELL SIZE	ØA MAX.	B UNEF - 2B Thread	ØC MIN.	ØD REF.	L MAX.
10SL	21.50	5/8" 24	8.10	14.50	66.00
12S	25.00	3/4" 20	8.10	14.50	
14S	27.80	7/8" 20	11.10	17.50	
16S	31.50	1" 20	13	19.40	
16		83.00			
18	34.0		1 1/8" 18	15.90	22.30
20	37.70		1 1/4" 18	20.60	27.10
22	39.80		1 3/8" 18	21.00	27.40
24	43.50	1 1/2" 18	25.40	31.80	88.00
28	49.70	1 3/4" 18	28.60	35.00	
32	56.00	2" 18 UNS	33.50	40.00	
36	62.50	2 1/4" 16 UNS	39	45.50	

NOTE : Dimensions are not contractual & may be subject to changes

MS 3107A Jamnut Receptacle



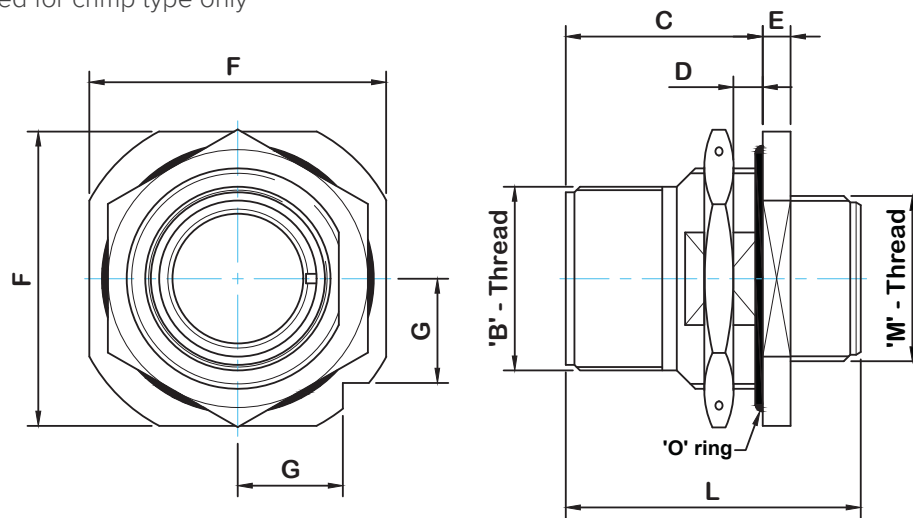
*Please Note: Actual shape of flange may vary - consult factory

SHELL SIZE	B Thread UNEF	C REF	D Wall Thickness		E REF	F REF	G REF
			MIN	MAX			
10SL	5/8" - 24	24.5	2.4	5.2	4.8		
14S	7/8" - 20	26.9		41.3		14.6	
16S	1" - 20			7.5		44.4	15.7
16		32.1		9.0		47.6	16.8
18	1 1/8" - 18	33.7		9.1		50.8	18.0
20	1 1/4" - 18			8.5		57.2	20.2
22	1 3/8" - 18	35.5		6.5		63.5	
24	1 1/2" - 18	33.7		8.3		69.8	24.7
28	1 3/4" - 18			5.6		76.2	26.9
32	2" - 18 UNS	35.2					
36	2 1/4" - 16 UN						

NOTE : Dimensions are not contractual & may be subject to changes

MS 3107T Jamnut Receptacle with rear accessory threads

*Recommended for crimp type only



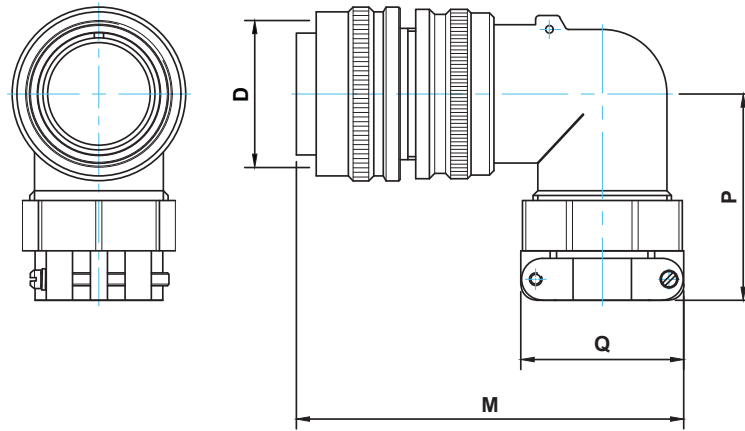
*Please Note: Actual shape of flange may vary - consult factory

***Various backshell options available - consult factory

SHELL SIZE	B Thread UNEF	C REF	D Wall Thickness		E REF	F REF	G REF	L REF	M Thread UNEF-2A		
			MIN	MAX							
10SL	5/8" - 24	24.5	2.4	5.2	4.8	41.3	14.6	73.0	5/8" - 24		
14S	7/8" - 20	26.9		7.5				76.4	3/4" - 20		
16S	1" - 20	32.1		44.4				15.7	75.0	7/8" - 20	
16				89.4							
18	1 1/8" - 18	33.7		9.0				47.6	16.8	92.2	1" - 20
20	1 1/4" - 18	35.5		50.8				18.0	92.8	1 1/8" - 18	
22	1 3/8" - 18			57.2				89.2	1 1/4" - 18		
24	1 1/2" - 18			33.7				57.2	20.2	92.8	1 3/8" - 18
28	1 3/4" - 18	35.2		8.5				63.5	22.5	91.5	1 5/8" - 18
32	2" - 18 UNS			6.5				5.6	69.8	24.7	96.0
36	2 1/4" - 16 UN		8.3	76.2	26.9	93.4	2 1/16" - 16 UN				

NOTE : Dimensions are not contractual & may be subject to changes

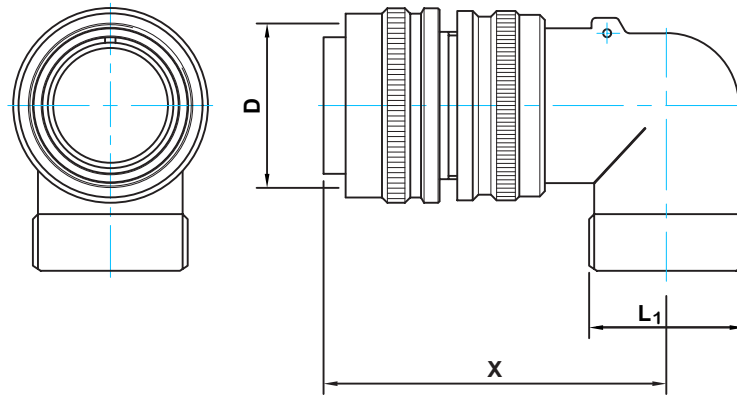
MS 3108F 90° Angle connector with Cable Clamp (includes Grommet and follower)



SHELL SIZE	D UNEF - 2B Thread	Q MAX	M MAX	P MAX
10SL	5/8" - 24	23.0	55.58	38.10
12S	3/4" - 20			
14S	7/8" - 20	28.0	58.72	40.49
16S	1" - 20	30.5	61.11	42.88
16			70.60	
18	1 1/8" - 18	33.0	72.24	45.24
20	1 1/4" - 18	38.1	82.55	50.00
22	1 3/8" - 18			50.80
24	1 1/2" - 18	44.2	94.46	53.98
28	1 3/4" - 18			55.58
32	2" - 18 UNS	52.7	106.38	65.89
36	2 1/4" - 16 UN	58.4	109.14	69.06
40	2 1/2" - 16 UN	68.5	114.71	80.98

NOTE : Dimensions are not contractual & may be subject to changes

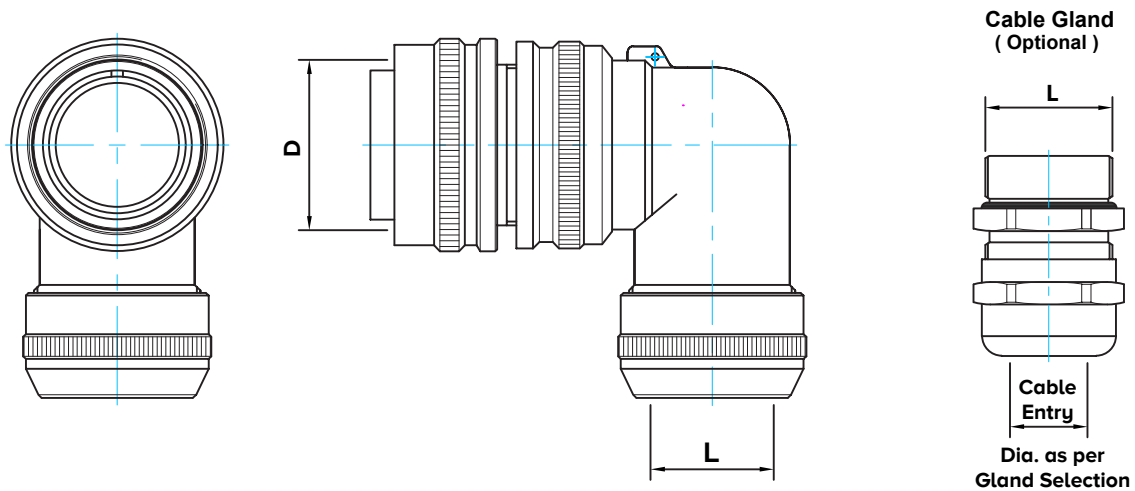
MS 3108R 90° Angle connector with Backshell for flex tube (includes Grommet & Follower)



SHELL SIZE	D UNEF - 2B Thread	L1 UNEF - 2A Thread	X MAX
10SL	5/8" - 24	5/8" - 24	48.0
12S	3/4" - 20		
14S	7/8" - 20	3/4" - 20	50.0
16S	1" - 20	7/8" - 20	51.0
16			60.0
18	1 1/8" - 18	1" - 20	63.0
20	1 1/4" - 18	1 3/16" - 18	70.0
22	1 3/8" - 18		71.0
24	1 1/2" - 18	1 7/16" - 18	72.0
28	1 3/4" - 18		
32	2" - 18 UNS	1 3/4" - 18 UNS	80.0
36	2 1/4" - 16 UN	2" - 18 UNS	
40	2 1/2" - 16 UN	2 1/4" - 16 UN	82.0

NOTE : Dimensions are not contractual & may be subject to changes

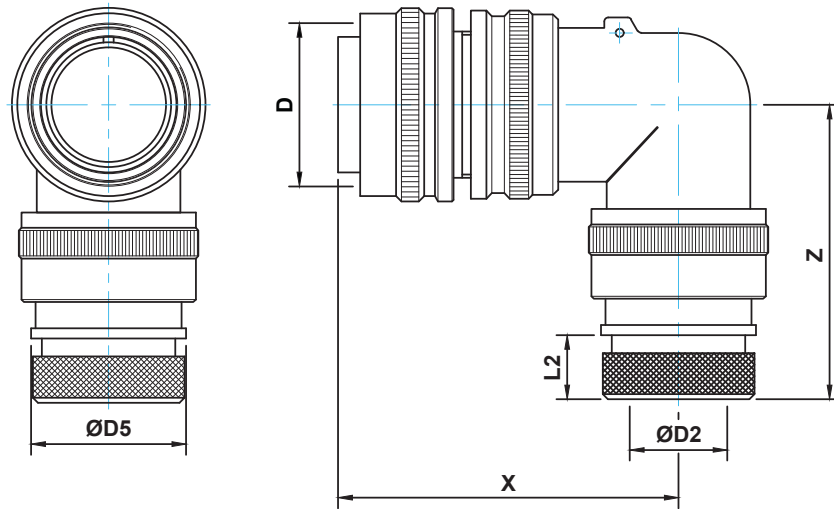
MS 3108 F ADP P ___ / M ___ 90° Angle Connector with Adapter (& Cable Gland - Optional)
 (add 'G' at the end for Brass Gland (Nickel Plated) & 'NGB' for Nylon Gland [includes Grommet and follower])
 Eg. : MS 3108F 14S-7P ADP P11 G
 (Scope 90° Angle Connector 14S-7P with Adapter Backshell of PG11 Thd. with PG11 Brass Gland)



SHELL SIZE	D UNEF - 2B Thread	L Thread	
		Metric	PG
10SL	5/8" - 24	M12 M16	PG7 PG9 PG11 PG13.5
12S	3/4" - 20	-----	PG7 PG11
14S	7/8" - 20	M16 M20 M25	PG7 PG9 PG11 PG13.5 PG16
16S	1" - 20	M16 M20 M25	PG9 PG11 PG13.5 PG16
16			
18	1 1/8" - 18	M16 M20 M25 M32	PG7 PG9 PG11 PG13.5 PG16 PG21 PG29
20	1 1/4" - 18	M20 M25 M32 M40	PG7 PG9 PG11 PG13.5 PG16 PG21 PG29
22	1 3/8" - 18	M20 M25 M32	PG9 PG11 PG13.5 PG16 PG21 PG29
24	1 1/2" - 18	M16 M20 M25 M32 M40	PG9 PG11 PG13.5 PG16 PG21 PG29
28	1 3/4" - 18	M20 M25 M32 M40	PG11 PG16 PG21 PG29 PG36
32	2" - 18 UNS	M20 M25 M32 M40	PG21 PG29 PG36
36	2 1/4" - 16 UN	M32 M40	PG21 PG29 PG36
40	2 1/2" - 16 UN	M50 M63	PG29 PG36 PG48

NOTE : Dimensions are not contractual & may be subject to changes

MS 3108G 90° Angle connector with backshell Type G as per VG95234 for heat shrink boot (includes Grommet and follower)

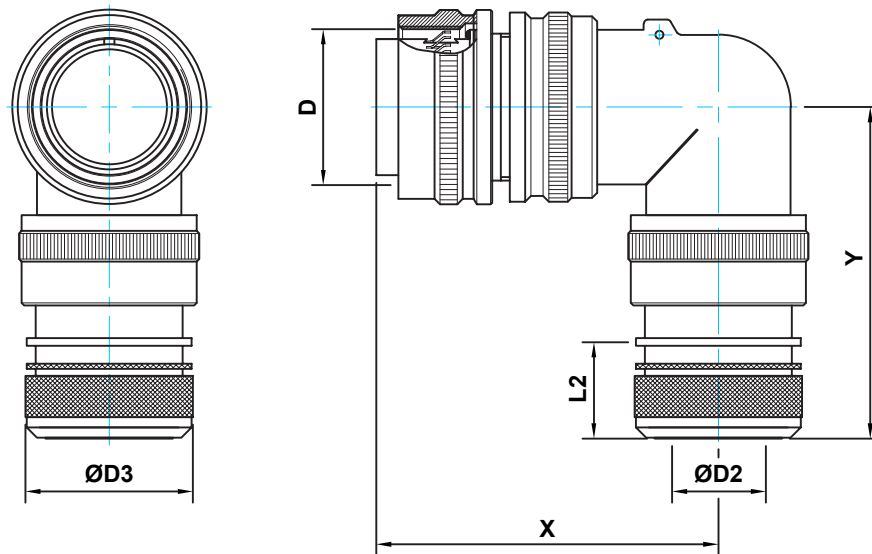


*Consult factory before ordering

SHELL SIZE	D UNEF - 2B Thread	X MAX	Z MAX	D ₂ MIN	D ₅ MAX	L ₂ ±0.5
10SL	5/8" - 24	48.0	49.4	7.7	17.0	11.7
12S	3/4" - 20					
14S	7/8" - 20					
16S	1" - 20	51.0	55.4	13.5	23.5	11.5
16		60.0	60.0			
18	1 1/8" - 18	63.0	65.8	14.6	26.5	12.7
20	1 1/4" - 18	70.0	70.7	18.7	30.2	
22	1 3/8" - 18	71.0	67.7	20.8	33.6	
24	1 1/2" - 18	72.0	71.0	24.6	38.1	
28	1 3/4" - 18		68.3	27.0	41.4	
32	2" - 18 UNS	80.0	93.0	33.3	48.6	15.2
36	2 1/4" - 16 UN		88.0	38.5	54.8	
40	2 1/2" - 16 UN		82.0			

NOTE : Dimensions are not contractual & may be subject to changes

MS 3108M 90° angle cable connector with RFI shield spring & backshell for shielded cable and heat shrink boot termination (includes Grommet and Follower).

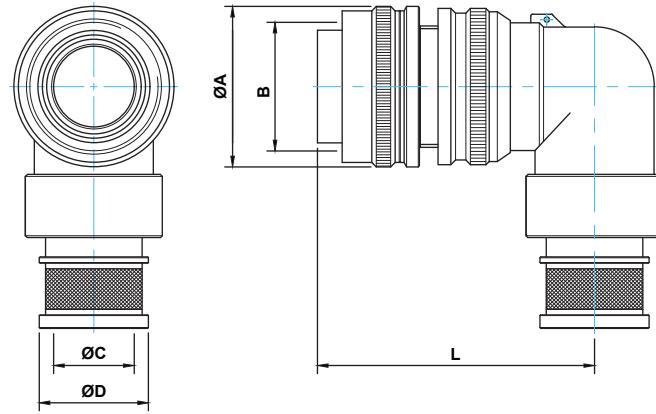


*Consult factory before ordering

SHELL SIZE	D UNEF - 2B Thread	X MAX	Y MAX	D ₂ MIN	D ₃ REF	L ₂ ±0.5
10SL	5/8" - 24	48.0	53.0	7.70	18.5	17.0
12S	3/4" - 20					
14S	7/8" - 20					
16S	1" - 20	51.0	59.0	13.5	25.0	18.0
16		60.0	66.7			
18	1 1/8" - 18	63.0	73.9	14.6	28.0	
20	1 1/4" - 18	70.0	74.3	18.5	32.0	
22	1 3/8" - 18	71.0	70.0	20.8	34.0	
24	1 1/2" - 18	72.0	80.0	24.6	38.0	
28	1 3/4" - 18		73.5	27.0	41.0	
32	2" - 18 UNS	80	94.0	33.3	48.0	
36	2 1/4" - 16 UN		81.0	38.5	55.0	
40	2 1/2" - 16 UN		82.0	46.0	62.0	

NOTE : Dimensions are not contractual & may be subject to changes

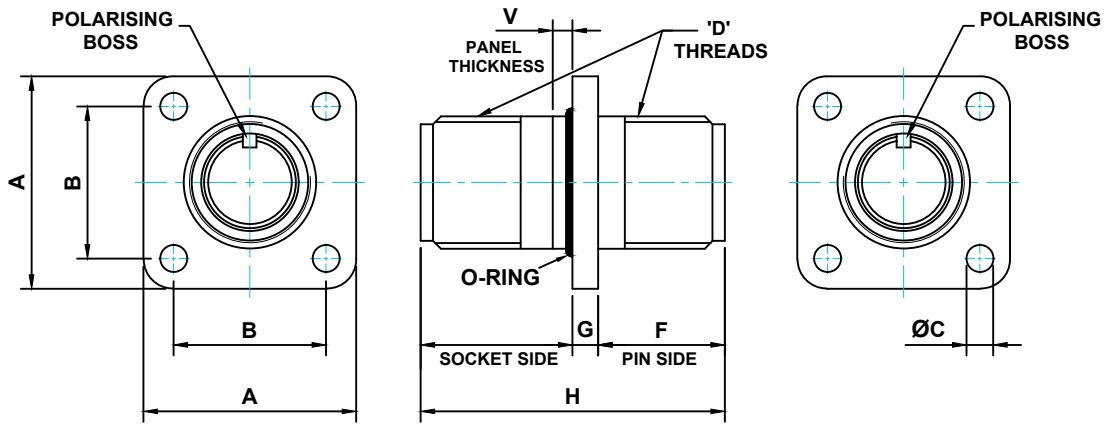
MS 3108F ADPBS 90° Cable Connector with Adapter to terminate Shielded Braid with Band - Strap or Constant Force Spring (includes Grommet and Follower).



SHELL SIZE	ØA MAX.	B UNEF - 2B Thread	ØC MIN.	ØD REF.	L MAX.
10SL	21.50	5/8" 24	8.10	14.50	48.00
12S	25.00	3/4" 20	8.10	14.50	
14S	27.80	7/8" 20	11.10	17.50	50.00
16S	31.50	1" 20	13	19.40	51.00
16					60.00
18	34.0	1 1/8" 18	15.90	22.30	63.00
20	37.70	1 1/4" 18	20.60	27.10	70.00
					71.00
22	39.80	1 3/8" 18	21.00	27.40	72.00
24	43.50	1 1/2" 18	25.40	31.80	
28	49.70	1 3/4" 18	28.60	35.00	
32	56.00	2" 18 UNS	33.50	40.00	80.00
36	62.50	2 1/4" 16 UNS	39	45.50	

NOTE : Dimensions are not contractual & may be subject to changes

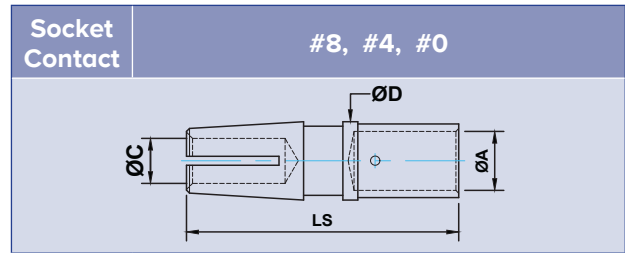
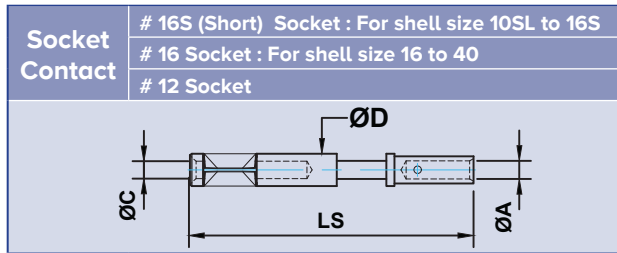
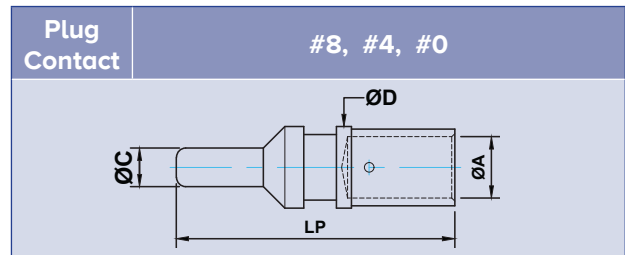
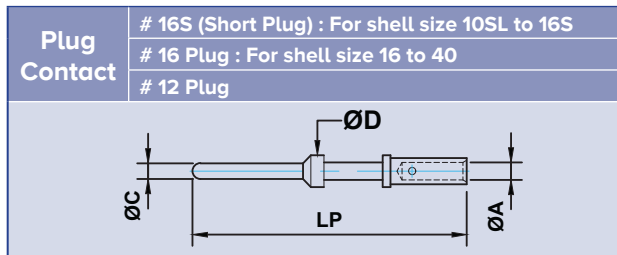
DATASHEET MS TBF THRU - BULKHEAD RECEPTACLE



SHELL SIZE	A ±0.79	B ±0.13	C +0.25 -0.13	D UNEF - 2A Thread	F REF.	G REF.	H REF.	V MAX
10SL	25.50	18.26	3.2	5/8" - 24	15.2	3.1	36.5	8.26
12S	27.79	20.62		3/4" - 20	14.2	3.2	37.3	
14S	30.0	23.01		7/8" - 20	14.7	3.6	37.3	
16S	32.0	24.59		1" - 20	14.6	4.2	37.3	
16					19.0		51.2	
18	35.0	26.97	3.7	1 1/8" - 18	19.3	4.0	51.3	11.30
20	38.0	29.36		1 1/4" - 18	19.4	4.5	50.4	
22	41.0	31.75		1 3/8" - 18				
24	44.50	34.92	3.7	1 1/2" - 18	20.6	4.0	51.4	9.73
28	50.80	39.67		1 3/4" - 18				
32	57.15	44.45	4.3	2 - 18	22.4	4.1	51.5	8.13
36	63.50	49.23		2 1/4" - 16 UN				
40	69.80	55.58		2 1/2" - 16 UNS	4.0	51.5	9.73	

NOTE : Dimensions are not contractual & may be subject to changes

CRIMP CONTACT TERMINATION SIZES



Recommended Wire Stripping Length (mm)	16S	16	12	8	4	0
	6.0 ^{+0.5}			10.0 ^{+0.8} _{-0.4}	11.0 ^{+0.8} _{-0.4}	13.0 ^{+0.8} _{-0.4}

Contact Plating	A30 : Silver Plating (Standard), C30* Gold Plating (Optional)
*Gold Plating Thickness : Flash (Standard) to 2.54 microns - Consult factory	

CONTACT SIZE	WIRE SIZE		PLUG CONTACT		SOCKET CONTACT		ØA (Ref.)	ØC (Ref.)	ØD (Ref.)		
	mm ²	AWG	Part No.	LP (mm)	Part No.	LS (mm)					
16S*	0.75 - 1.5 (STANDARD)	18 / 16 (STANDARD)	AEC 16 SPC A30	27.5	AEC 16 SSC A30	27.8	1.7	1.6	3.2		
	0.2 - 0.38	24 / 22	AEC 16 SPC A30 D0.9		AEC 16 SSC A30 D0.9		0.9				
	0.4 - 0.6	22 / 20	AEC 16 SPC A30 1.1		AEC 16 SSC A30 1.1		1.1				
	1.5 - 2.0	-	AEC 16 SPC A30 2M		AEC 16 SSC A30 2M		2.0				
16	0.75 - 1.5 (STANDARD)	18 / 16 (STANDARD)	AEC 16 LPC A30	31.8	AEC 16 LSC A30	36.6	1.7	1.6	3.2		
	0.2 - 0.38	24 / 22	AEC 16 LPC A30 D0.9		AEC 16 LSC A30 D0.9		0.9				
	0.4 - 0.6	22 / 20	AEC 16 LPC A30 1.1		AEC 16 LSC A30 1.1		1.1				
	1.5 - 2.0	-	AEC 16 LPC A30 2M		AEC 16 LSC A30 2M		2.0				
12	2.0 - 3.0 (STANDARD)	14 / 12 (STANDARD)	AEC 12 PLG A30	36.8	AEC 12 SKT A30	37.2	2.5	2.4	4.7		
	1.0 - 1.5	18 / 16	AEC 12 PLG A30 1.5M		AEC 12 SKT A30 1.5M		1.7				
	4.0	-	AEC 12 PLG A30 4M		AEC 12 SKT A30 4M		3.0				
8	-	8 (STANDARD)	AEC 8 PLG A30	38.0	AEC 8 SKT A30	39.5	4.8	3.6	7.9		
	10 (STANDARD)	-					37.0			AEC 8 SKT 0870 A30	3.2
	4.0	-					38.0			AEC 8 SKT A30 6M	3.5
4	-	10 (STANDARD)	AEC 4 PLG A30	41.2	AEC 4 SKT A30	41.2	7.8	5.7	11.1		
	16 (STANDARD)	-									
0	-	0 (STANDARD)	AEC 0 PLG A30	44.2	AEC 0 SKT A30	44.2	11.8	9.1	15		
	50 (STANDARD)	-					AEC 0 SKT A30 25M			7.8	
	25.0	-					AEC 0 SKT A30 35M			9.2	
	35.0	-					AEC 0 SKT A30 16M			6.2	
	16.0	-					AEC 0 SKT A30 10M			5.2	
	10.0	-									

*For socket contacts for items 10SL-3S and 12SP-10S, add code 'RD' to part number

NOTE : Dimensions are not contractual & may be subject to changes



TELESCOPING BUSHING MS 3420

Telescoping gland bushings (used with MS 3057 A cable clamp & 3100F, 3101F, 3106F, 3108F styles) keep dirt, oil and moisture out of endbell. Taping or wrapping wires is eliminated, since the bushing protects wires going through clamp. Combinations of bushing may be used to decrease cable entry diameter to improve sealing. Material is polychloroprene.

Part Number	Shell Size
MS 3420 - 4	10SL
MS 3420 - 4	12S
MS 3420 - 6	14S
MS 3420 - 8	16S
MS 3420 - 8	16
MS 3420 - 10	18
MS 3420 - 12	20

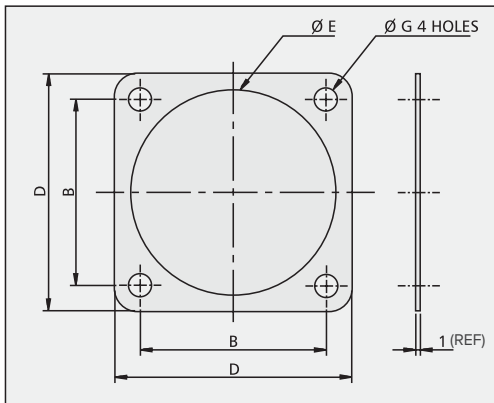
Part Number	Shell Size
MS 3420 - 12	22
MS 3420 - 16	24
MS 3420 - 16	28
MS 3420 - 20	32
MS 3420 - 24	36
MS 3420 - 28	40



SQUARE GASKET

These sealing Gaskets made of Neoprene are used with flange mounted receptacles.

*Also available - Conductive Square gaskets with Silver Filling / Alu-Flex, gaskets for rear mount receptables.



Part Number	Dimensions			
	+/-0.4 D	+/-0.25 B	+/-0.4 ØE Front Mount	+/-0.3 ØG
MS 02 - 10SL SQG	25.40	18.26	15.88	4.9
MS 02 - 12S SQG	27.79	20.62	19.05	4.9
MS 02 - 14S SQG	30.17	23.01	22.22	4.9
MS 02 - 16S SQG	32.54	24.61	25.40	4.9
MS 02 - 18 SQG	34.93	26.97	28.58	4.9
MS 02 - 20 SQG	38.10	29.36	31.75	4.9
MS 02 - 22 SQG	41.27	31.75	34.92	4.9
MS 02 - 24 SQG	44.45	34.93	38.10	4.9
MS 02 - 28 SQG	50.80	39.67	44.45	4.9
MS 02 - 32 SQG	57.15	44.45	50.80	6.1
MS 02 - 36 SQG	63.50	49.22	55.57	6.1
MS 02 - 40 SQG	69.85	55.57	61.90	6.1

- For Silver filled conductive gasket, use code 'SQGM' instead of 'SQG'
- For Alu-Flex Conductive gasket, use code 'SQG AF' instead of 'SQG'
- For gasket for rear mount receptable, use code 'SQGB' instead of 'SQG'



PROTECTIVE PLASTIC CAPS

Protective dust caps are designed to cover the coupling end of MS connectors where there is possibility of foreign matter accumulating on the interior of the connector or to avoid damage to the threaded parts. Material is red polythylene. Plastic dust caps can be reused, but are not intended to replace the standard aluminium dust caps. These are mainly for protection during transit.

For ordering, specify 3102/3106 - shell size - DC (Dust Cap),
e.g. MS 3102 - 36 - DC

NOTE : Dimensions are not contractual & may be subject to changes



PROTECTIVE METAL CAPS MS 25042

FOR 3106 AND 3108 STYLES

These external threaded metal dust caps are used to protect MS 3106 and MS 3108 styles. Material is aluminium alloy. They are supplied with Sash chain.

Part Number With Sash Chain	Shell Size
MS 25042 - 10D	10SL
MS 25042 - 12D	12S
MS 25042 - 14D	14S
MS 25042 - 16D	16S,16
MS 25042 - 18D	18
MS 25042 - 20D	20
MS 25042 - 22D	22

Part Number With Sash Chain	Shell Size
MS 25042 - 24D	24
MS 25042 - 28D	28
MS 25042 - 32D	32
MS 25042 - 36D	36
MS 25042 - 40D	40
MS 25042 - 44D	44



PROTECTIVE METAL CAPS MS 25043

FOR 3100, 3101, AND 3102 STYLES

These internally threaded metal dust caps are used to protect MS 3100, MS 3101, and MS 3102 styles. Material is aluminium alloy. They are supplied with Sash chain.

Part Number With Sash Chain	Shell Size
MS 25043 - 10D	10SL
MS 25043 - 12D	12S
MS 25043 - 14D	14S
MS 25043 - 16D	16S,16
MS 25043 - 18D	18
MS 25043 - 20D	20
MS 25043 - 22D	22

Part Number With Sash Chain	Shell Size
MS 25043 - 24D	24
MS 25043 - 28D	28
MS 25043 - 32D	32
MS 25043 - 36D	36
MS 25043 - 40D	40
MS 25043 - 44D	44



CABLE CLAMP MS 3057-A

The MS 3057A cable clamp is made for cable connectors and receptacles that have an endbell with external conduit threads. The double clamping action provides a balanced, positive hold on the wires and greatly reduces moisture ingress. Provision is made for safety wiring. This clamp is supplied without bushing.

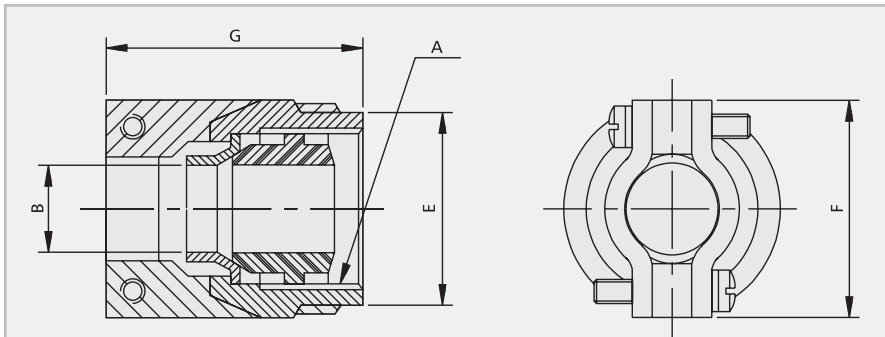
Fits Shell Size	Part Number	Accommodates MS Bushing
10SL	MS 3057 - 4A	MS 3420 - 4
12S	MS 3057 - 4A	MS 3420 - 4
14S	MS 3057 - 6A	MS 3420 - 6
16S	MS 3057 - 8A	MS 3420 - 8
16	MS 3057 - 8A	MS 3420 - 8
18	MS 3057 - 10A	MS 3420 - 10
20	MS 3057 - 12A	MS 3420 - 12

Fits Shell Size	Part Number	Accommodates MS Bushing
22	MS 3057 - 12A	MS 3420 - 12
24	MS 3057 - 16A	MS 3420 - 16,12
28	MS 3057 - 16A	MS 3420 - 16,12
32	MS 3057 - 20A	MS 3420 - 20,16
36	MS 3057 - 24A	MS 3420 - 24,20
40	MS 3057 - 28A	MS 3420 - 24,20



CABLE CLAMP MS 3057-C (Waterproof)

Waterproof cable clamp with mechanical strain relief clamp, providing concentric clamping over a wide range of cable sizes. The metal body is manufactured from aluminium alloy. Neoprene grommet with metal ferrule in scope.



To reduce diameter B, use rubber bushing MS 3420 A.

Shell Size	Clamp Order P/N	A Thread Class 2B In Inch	Open	Close	E (REF.)	F (REF.)	G (REF.)
			B				
40	MS 3057 - 28 C	2.250 - 16 UN	41.25	29.90	60.3	63.5	51.6
36*	MS 3057 - 24C	2.000 - 18 UNS	35.00	23.40	53.9	57.1	51.6
32	MS 3057 - 20C	1.750 - 18 UNS	31.75	23.40	47.6	54.0	44.8
28	MS 3057 - 16C	1.4375 - 18 UNEF	23.80	15.50	39.6	42.0	38.5
24	MS 3057 - 16C	1.4375 - 18 UNEF	23.80	15.50	39.6	42.0	38.5
22	MS 3057 - 12C	1.1875 - 18 UNEF	19.00	11.30	33.3	37.3	35.7
20	MS 3057 - 12C	1.1875 - 18 UNEF	19.00	11.30	33.3	37.3	35.7
18	MS 3057 - 10C	1.000 - 20 UNEF	15.87	9.60	28.5	31.0	35.3
16	MS 3057 - 8C	0.875 - 20 UNEF	13.48	8.00	25.4	28.1	32.3
16S	MS 3057 - 8C	0.875 - 20 UNEF	13.48	8.00	25.4	28.1	32.3
14S*	MS 3057 - 6C	0.750 - 20 UNEF	11.12	5.84	22.2	25.8	32.3
10SL*	MS 3057 - 4C	0.625 - 24 UNEF	7.93	2.38	19.0	22.6	32.3

* Consult factory before ordering

Dimensions are in mm
NOTE : Dimensions are not contractual & may be subject to changes

AEC CRIMP KIT



- M22520/1-01
- Allen Key For M22520/1-01
- AEC 16/12 Insertion Tool
- Extraction Pin For Size 16 Contacts
- Extraction Pins For Size 12 Contacts
- AEC 16/12 Extraction Tool
- TH29-1 Turret Head (Positioner) for #16 and #12 contacts
- AEC 16 PLT Pin (To be used for inserting #16 socket contacts)
- AEC 12 PLT PIN (To be used for inserting #12 socket contacts)



To order use Part Number "AEC CRIMP KIT"

A30/C30 ASSEMBLY INSTRUCTIONS

For crimping of Size 16 and Size 12 contacts, Allied recommends the use of DMC crimping tool M22520/1-01, along with Turret Head (Positioner) TH29-1 as shown here.

In addition appropriate Insertion Tool, Extraction Tool, and Pilot/Guide Pins are required.



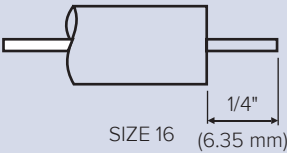
CRIMPING A30/C30 CONTACTS

- Set the Crimp Tool with Positioner pressed in as shown below.
Select position depending upon the type of contact used.

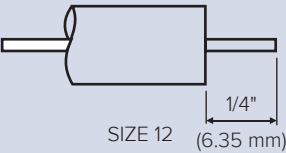
Type Of Contact	Positioner Selection	Set For
#12 PLUG & SOCKET	GREEN	
#16 SHORT PLUG & SOCKET	RED	
#16 LONG PLUG	BLUE	
#16 LONG SOCKET	GREEN	

- Place the contacts,
Mating end first into the tool.
- Insert the stripped (see table) wire into
the hollow end of the contact.

Recommended Wire Stripping



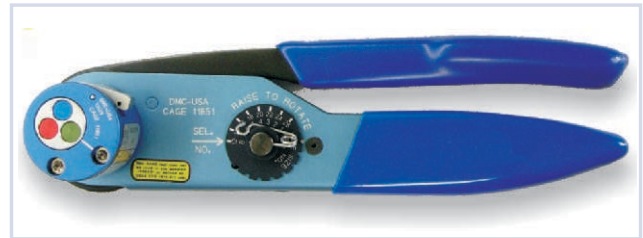
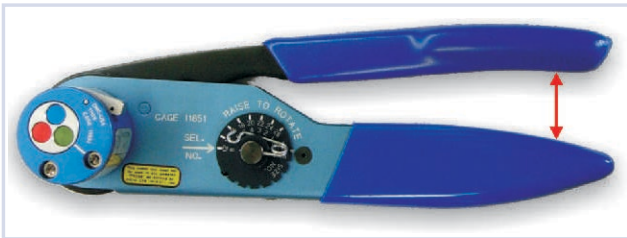
SIZE 16 (6.35 mm)



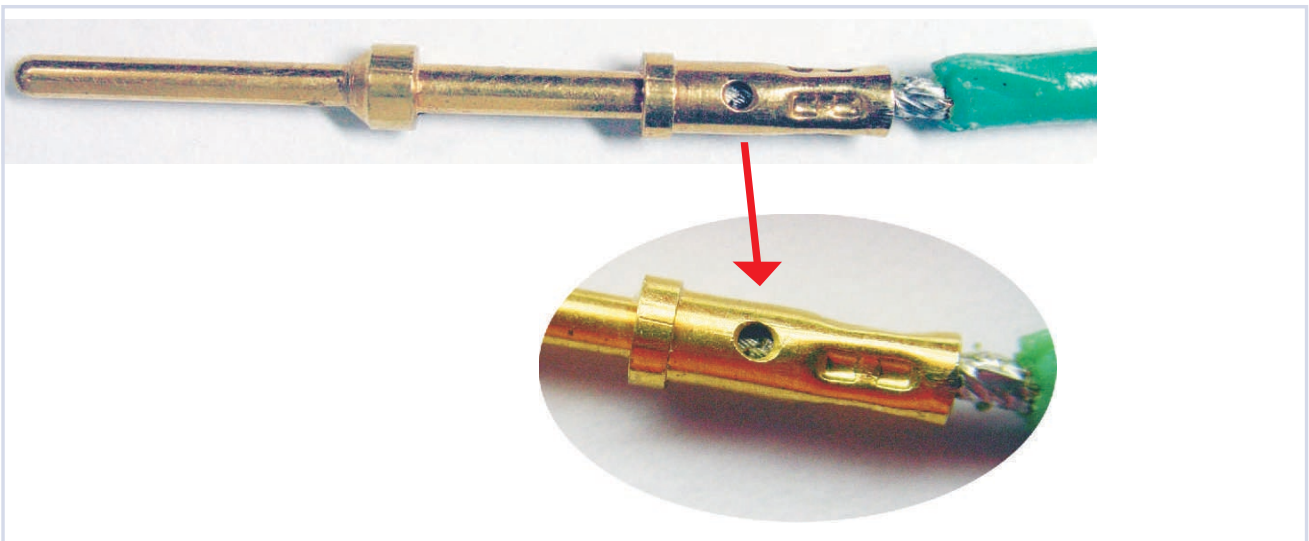
SIZE 12 (6.35 mm)

A30/C30 ASSEMBLY INSTRUCTIONS

4. Close the tool completely to crimp. (The tool will release/retract, only if closed completely).



5. Check the contact through the inspection hole to ensure that the wire is fully inserted.

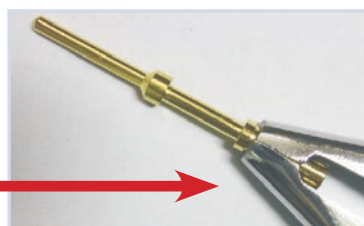


INSERTION OF CONTACTS

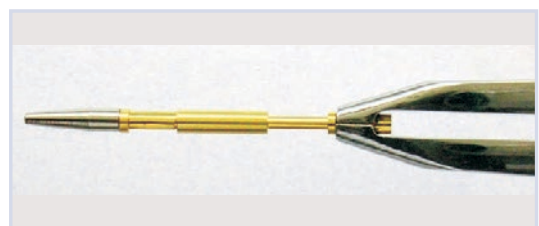
1. Before inserting the contacts, slide the coupling nut and the rear accessories over the wire bundle in proper sequence for re-assembly.
2. Hold the contact in the Insertion Tool & dip in Isopropyl Alcohol.
(Do not use any other type of lubricant)
3. For SOCKET Contacts always use Guide/Pilot pins.



Wrong Grip

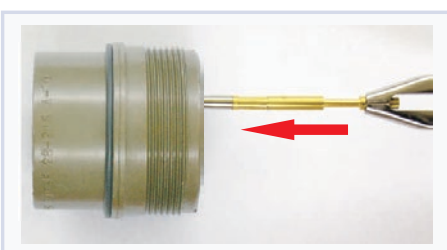


Correct Grip

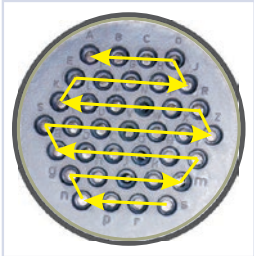


A30/C30 ASSEMBLY INSTRUCTIONS

4. Hold Connector body firmly and apply a slow, even pressure perpendicular to the insulator face until the contact snaps into position.



5. Check from the mating end to ensure that the contacts are inserted to its proper depth.
6. Continue the same by working progressively from contact-to contact across the layout



7. After all the contacts have been inserted, slide the coupling nut, ferrule, grommet, end-bell and any other accessory back into position.

EXTRACTION OF CONTACTS

1. To remove the contacts, use the Extraction Tool, which contains tool tips for Plug & Socket contacts.
2. Apply a slow even pressure to push the contacts out of the rear of the insulator.



PART NUMBER INFORMATION FOR CRIMP TOOLS*

CONTACT SIZE	CRIMP TOOL	DIE ASSEMBLY	LOCATOR/TURRET/ POSITIONER	INSERTION TOOL	EXTRACTION TOOL
16S/16	DMC AF8 (M22520/1-01) (Hand Operated - Manual)	Not Applicable	TH-29	AEC 16 Insertion Tool	AEC 16 EXTR Tool
	DMC AFE8B (Battery Powered Hydraulic)				
	DMC WA27F (Hand Operated Pneumatic)				
12	DMC AF8 (M22520/1-01) (Hand Operated - Manual)	Not Applicable	TH-29	AEC12 Insertion Tool	AEC 12 EXTR Tool
	DMC AFE8B (Battery Powered Hydraulic)				
	DMC WA27F (Hand Operated Peumatic)				
8	DMC M300BT (Hand Operated - Manual)	Not Applicable	DMC TP-1352 For PLG, DMC TP-1353 For SKT	AEC8 Insertion Tool	AEC 8 EXTR Tool
	DMC WA27-300BT-EP (Hand Operated - Pneumatic)				
	DMC WA23 (M22520/23-01) (Bench Mount Pneumatic)	DMC WA23-2 (M22520/23-02)	DMC WA23-147L. For Plug: To Also Use Contact Adaptor 'Allied SK1789'. For Socket: No Contact Adaptor Required.		
	DMC HD23 (Hand Operated Hydraulic)				
4	DMC WA23 (M22520/23-01) (Bench Mount Pneumatic)	DMC WA23-4 (M22520/23-04)	DMC WA23-122L	AEC4 Insertion Tool	Allied: AEC 4 EXTR Tool, Astrotool: ATC2234
	DMC HD23 (Hand Operated Hydraulic)				
0	DMC WA23 (M22520/23-01) (Bench Mount Pneumatic)	DMC WA23-5 (M22520/23-05)	DMC WA23-123L	Allied: AEC 0 Insertion Tool, DMC: DAK99-0S	Allied: AEC 0 EXTR Tool, DMC: Plug Tip: DRK100-0P, Socket Tip: DRK100-0S. Use With Handle DRK100-1, Or Use With Handle Of DAK99-0S
	DMC HD23 (Hand Operated Hydraulic)				

*DMC = Daniels Manufacturing Corporation. For all DMC tools, please confirm scope in DMC catalogue and contact DMC prior to ordering.
 **All part nos are applicable for contacts with standard termination sizes as given in the 'crimp contact termination sizes' sheet - page 57.
 For any non-standard contact part nos, please consult factory.

MG CONNECTORS

Circular Bayonet Coupling Connectors as per JSS 50815 (equivalent to VG95234)

Allied MG connectors are quick coupling connectors. Complete mating is achieved with a 120 degree rotation of the coupling nut, providing an audible and tactile 'click' on mating. These connectors provide all the salient features of the MS Range, with additional ease of use for applications requiring frequent coupling/decoupling, ruggedized construction, improved ingress protection, and higher resistance to vibration.

(LCSO Approved)



METRIC CONNECTORS

Circular Threaded Coupling Connectors conforming to Russian specification

Manufactured as per JSS 50860, Allied Metric series connectors are mainly used in tanks, naval vessels, and military vehicles which are based on Russian design.

(LCSO Approved)



RAILWAY CONNECTORS

Allied offers a wide range of internationally compatible connectors for railway locomotives of different origins-diesel as well as electric. The applications include locomotive control systems, safety systems, communication systems, signalling systems, air-conditioning systems, critical braking systems, amongst many others.

(RDSO/CLW/DLW Approved)

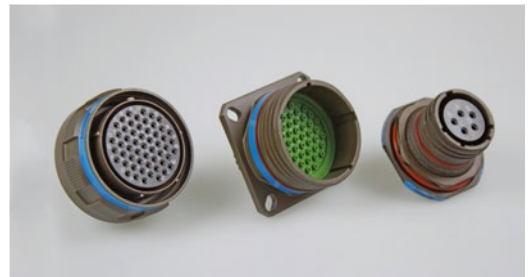


D38999 CONNECTORS

Allied is the exclusive Assembly Distributor (V.A.D.) of Souriau - France for D38999 Series III connectors in India.

These are high density, lightweight connectors designed primarily for airborne applications.

(QPL QUALIFIED)



AQWL CONNECTORS

Allied AQWL connectors are a ruggedized derivative of circular threaded coupling range "MS". These connectors feature double stub coupling threads for quick mating, and left hand accessory threads for foolproof on-field performance. Originally designed for power distribution systems and maritime applications, this range is available with a complete range of backshells, gaskets, and protective covers.



AMR CONNECTORS

Allied AMR waterproof connectors are designed to meet the requirements of MIL-C-5015. The connectors provide effective environmental resistance in the harshest outdoor environments. All mated insert surfaces have resilient O-ring seals for protection against moisture/dust ingress, while gland seals at cable entry provide excellent cable strain relief. Applications include radar installations and nuclear power control systems.



BH CONNECTORS

Designed as per MIL-DTL-26482 Series 1 (Solder Termination), Allied BH Connectors are miniature bayonet coupling connectors. The range comprises 9 shell sizes and various styles. Configuration of contacts varies from 2 to 61, spread across the nine shell sizes. Best suited for applications where space and weight are key constraints; all connectors feature factory fitted gold plated contacts to guarantee reliable long term electrical performance.



MGE CONNECTORS

Allied MGE connectors are single pin high power connectors for interconnect applications involving very high currents and low voltage. The range is derived from NATO specification VG95234, and also meets the performance requirements of NATO specification VG 96929. Current rating up to 750A is achieved using a unique insulator design, while complete foolproof mating is achieved with a 120 degree rotation of the coupling nut, providing an audible and tactile 'click' on mating.

(LCSO Approved)



CABLE HARNESS ASSEMBLIES

Allied offers industrial, defence, and railway equipment customers a range of cable harness assembly solutions, which serve as a valuable one stop interconnect solution. Both "Built to Spec" and "Built to Print" assemblies are available with a range of standard/customised backshells and termination solutions.



CUSTOMISED CONNECTORS

Allied's USP lies in its ability to provide customized solutions for challenging applications. With an experience of over 5 decades and an integrated manufacturing infrastructure, Allied helps convert customer ideas into cost effective, reliable and robust connector solutions.



These notes are intended to be used in conjunction with the Product Catalogues and Product Specifications. Products may be safely used in the applications for which they have been designed, and within the specified ratings and environments. If products are exposed to conditions outside the performance rating or specified environments they may constitute a hazard.

No information and data contained in this catalogue shall be construed to create any liability on the part of Allied. Any new issue of this catalogue shall automatically invalidate and supersede any and all previous issues. A limited warranty applies to Allied products. Except for obligations assumed by Allied under this warranty, Allied shall not be liable for any loss, damage, cost of repairs, incidental or consequential damages of any kind, whether or not based on express or implied warranty, contract, negligence or strict liability arising in connection with the design, manufacture, sale, use or repair of the products.

In particular it should be noted that:-

1. MATERIAL CONTENT

Circular Connectors generally use metalwork parts made of brass, aluminium, phosphor-bronze or steel, which are dependant on the particular application, may be passivated and protected with cadmium or nickel plate-in conjunction with chromated surface finishes. The insulating materials can be synthetic rubber, together with plastic or glass-filled plastic moulded parts. Contact materials vary but are usually made of Copper alloys.

2. ELECTRIC SHOCK, BURNS AND FIRE

Hazard can occur if the product is used outside the specified parameters or if the product is damaged, wrongly wired or poorly assembled, or poorly integrated into larger equipments, or contaminated with conductive fluids. Live circuit terminations must be protected and never broken by disconnecting products.

Hot spots may be created when resistance is increased due to damage or incorrect intergration particularly soldering, or loose terminations. Overheating can cause breakdown of insulation, electric shock, burns or, ultimately, fire. In the event of fire, noxious and/or toxic fumes may be released. In these circumstances, any fire involving the product should be dealt with by personnel properly equipped. Connector with exposed terminations or contact should not be used on the current supply side of a circuit with exposed contacts or on an unmated product. Before making a circuit live, the product and wiring should be checked to ensure that there is no damage and no electrically conducting debris present. Circuit resistance checks should also be conducted before making the circuit live. Always ensure that connectors are assembled and wired by properly trained personnel.

3. USE, TRANSPORT AND STORAGE OF PRODUCTS

Care must be exercised to avoid damage to any part of the products during transport, storage or use. Abnormal transit or storage conditions and abuse during installation can give rise to damage. Products should not be used in a damaged condition.

Improper storage (particularly of damaged products) can give rise to additional hazards particularly corrosion.

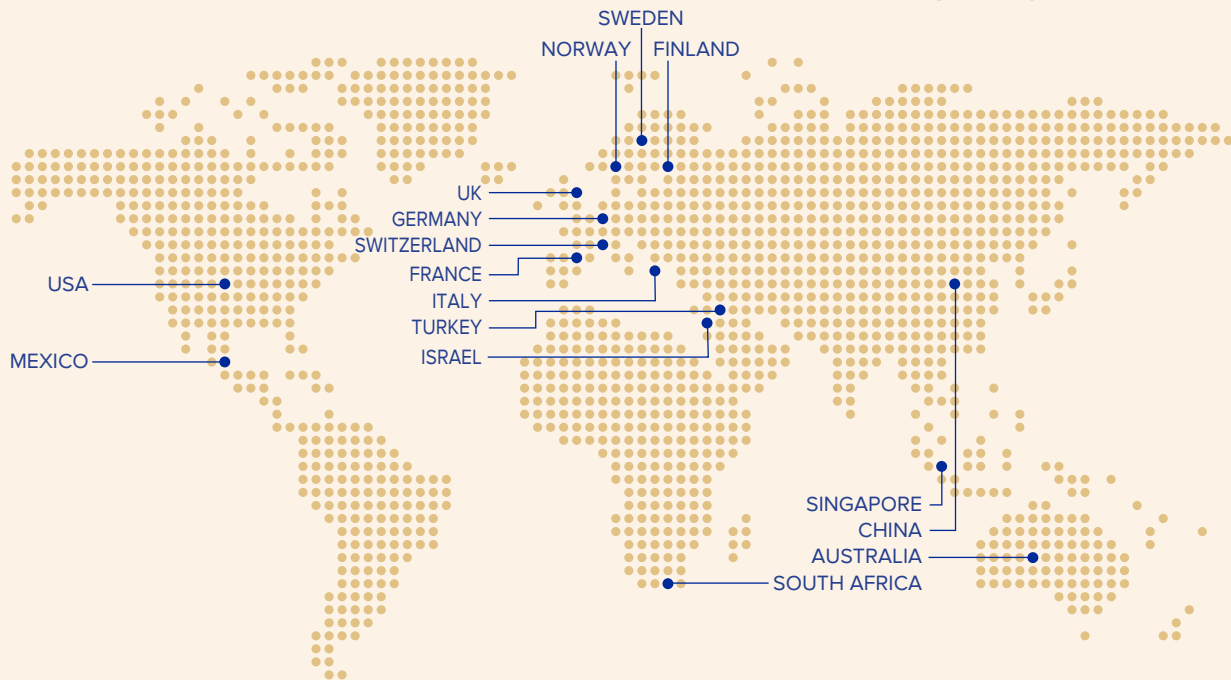
4. DISPOSAL OF PRODUCTS

Products should not be burnt.

SAFETY RULES

- A. Follow the guidelines given.**
- B. Always protect live circuits and never disconnect a live connector.**
- C. Never use a damaged connector.**
- D. Never burn discarded connector.**

GLOBAL PRESENCE



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