

INDEX:	Page
INTRODUCTION	2
SHELL DRAWINGS	3
DIMENSION CHART	4
INSERT SPECIFICATION	5
TECHNICAL SPECIFICATION	6
ORDERING INFORMATION	7



"Connect Through Allied"



CIRCULAR REVERSE BAYONET COUPLING CONNECTORS

These are circular connectors with rugged aluminium alloy shells and reverse bayonet coupling. Based on MIL-C-5015, there is a wide range of contact arrangements available. Insert material is Polychloroprene. These connectors give quick positive coupling with audible indication of full coupling.

Other attributes include high shock and vibration capabilities without the need for lockwiring. The connectors offer an operating temperature range of -55° C to $+125^{\circ}$ C & are intermateable with VG95234 and 121B connectors.

Designed originally as a military connector, current applications include railways, process control equipments, communication equipments, stage lighting, mining equipments to name a few.









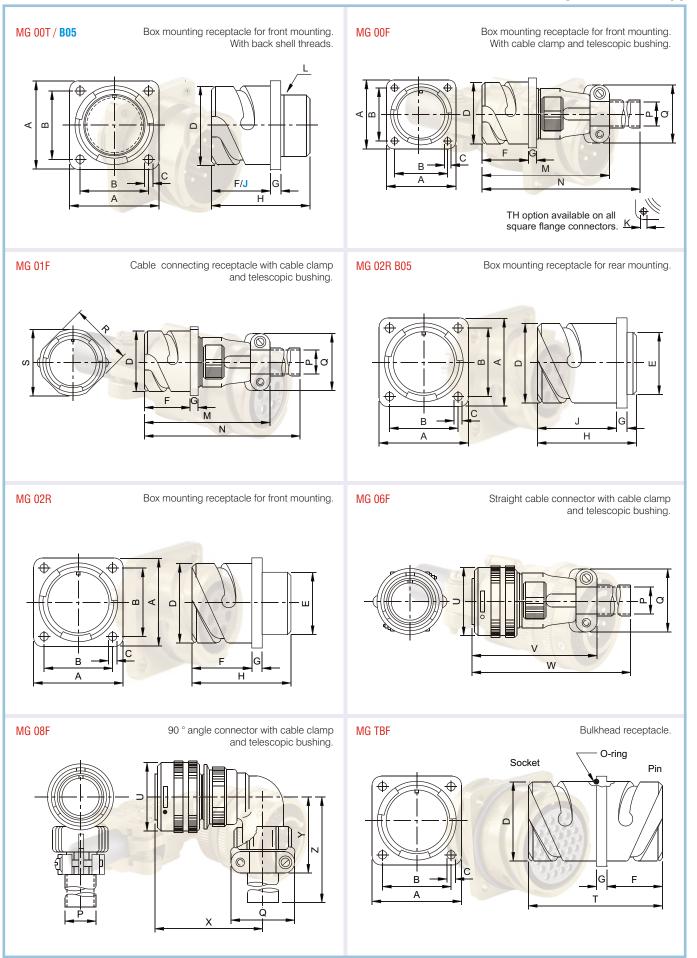








SHELL DRAWINGS





DIMENSION CHART

SHELL SIZE	10SL	148	168	16	18	20	22	24	28	32	36
Α	25.4	30.0	32.0	32.0	35.0	38.0	41.0	44.5	50.8	57.0	64.0
0.3 B	20.4	30.0	32.0	32.0	33.0	30.0	41.0	44.5	30.0	37.0	04.0
0.1	18.2	23.0	24.6	24.6	27.0	29.4	31.8	34.9	39.7	44.5	49.2
C +0.15 -0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.7	3.7	4.3	4.3
D +0 -0.15	18.2	24.6	27.4	27.4	30.8	34.2	37.4	40.9	46.7	53.4	59.6
E MAX	16.2	19.2	22.4	22.4	25.6	29.0	32.2	35.3	41.4	47.8	54.1
F +0.4 -0	14.2	14.2	14.2	19.0	19.0	19.0	19.0	20.6	20.6	22.2	22.2
G 0.2	2.8	3.2	3.2	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0
H 0.3	24.7	24.7	24.7	33.8	33.8	33.8	33.8	35.7	35.7	37.3	37.3
J +0.4 -0	18.2	18.2	18.2	21.5	23.0	23.0	23.0	23.0	24.0	24.0	24.0
K ISO Thread	M4	M4	M4	M4	M4	M4	M4	M4	M5	M5	M5
L UNEF-2A Thread	5⁄8"x 24	³⁄₄"x 20	⅓"x 20	7∕8"x 20	1" x 20	1 1/8"x 18	11/4"x 18	1¾"x 18	15⁄8"x 18	1%"x 16UN	21/16" x 16UN
M MAX	60.0	62.0	70.0	70.0	77.0	77.0	77.0	85.0	85.0	85.0	105.0
N MAX	120.0	120.0	120.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	135.0
P Cable Entry	6.5	9.0	11.0	11.0	14.2	15.8	15.8	21.4	212.4	26.7	31.7
Q MAX	23.0	28.0	30.5	30.5	33.0	38.1	38.1	44.2	44.2	52.7	58.4
R 0.2	20.6	25.4	28.6	28.6	31.7	34.9	38.1	41.3	47.6	54.0	60.6
\$ +0 -0.15	25.2	29.3	32.3	32.3	34.8	37.8	41.1	44.6	50.9	57.1	63.6
T 0.7	37.5	37.5	37.5	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
U MAX	24.5	30.5	33.5	33.5	37.5	40.5	44.0	47.5	53.5	60.0	67.5
V MAX	55.0	60.0	60.0	70.0	75.0	75.0	75.0	90.0	90.0	90.0	100.0
W MAX	115.0	115.0	115.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	130.0
X MAX	45.0	47.0	48.0	57.0	58.0	61.0	61.0	66.0	66.0	72.0	75.0
Y MAX	42.0	42.0	45.0	45.0	53.0	53.0	53.0	58.0	58.0	66.0	69.0
Z MAX	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	110.0	110.0



INSERT SPECIFICATIONS

				CON	TACTS S	SIZE							CON	TACTS			CATIONS
SR. No.	INSERT No.	TOTAL CONTACTS	#	#	#	#	#	SERVICE Rating	SR. NO.	INSERT No.	TOTAL CONTACTS	#	#	#	#	#	SERVICE Rating
	110.	Commore	0	4	8	12	16	1011110		110.	Johnnord	ő	4	8	12	16	Intino
1	10SL-3	3	-	-	-	-	3	А	56	22-33	7	-	-	-	-	7	A,D
2	10SL-4	2	-	-	-	-	2	A	57	22-34	5	-	-	-	3	2	D
3	14S-2	4	-	-	-	-	4	INST	58	24-2	7	-	-	-	7	-	D
<u>4</u> 5	14S-5	5	-	-	-	-	5 6	INST	59 60	24-4	16	1	-	-	-	3 16	D
6	14S-6 14S-7	3		_	_	_	3	A	61	24-5	8	-	-	_	8	-	A A,D
7	14S-9	2		_	_	_	2	A	62	24-0	16	_	_	_	2	14	A,D A
8	14SA-61	7	_	_	-	-	7	INST	63	24-9	2	_	2	-	-	-	A
9	16S-1	7	-	-	-	-	7	A	64	24-10	7	-	-	7	-	-	А
10	16S-4	2	-	-	-	-	2	D	65	24-11	9	-	-	3	6	-	А
11	16S-5	3	-	-	-	-	3	А	66	24-12	5	-	2	-	3	-	А
12	16S-8	5	-	-	-	-	5	А	67	24-20	11	-	-	-	2	9	D
13	16-9	4	-	-	-	2	2	А	68	24-21	10	-	-	1	-	9	D
14	16-10	3	-	-	-	3	-	А	69	24-22	4	-	-	4	-	-	D
15	16-11	2	-	-	-	2	-	Α	70	24-27	7	-	-	-	-	7	E
16	18-1	10	-	-	-	-	10	A,INST	71	24-28	24	-	-	-	-	24	INST
17	18-3	2	-	-	-	2	-	A	72	24L-58*	13	-	-	3	3	7	INST
18 19	18-4 18-5	3	-	-	-	2	1	D D	73 74	28-3 28-5	3 5	-	2	3	1	2	E D
20	18-8	8		_	_	1	7	A	75	28-6	3	_	3	_	_	_	D
21	18-9	7	_	_	_	2	5	INST	76	28-8	12	_	-	_	2	10	A,D,E
22	18-10	4	_	_	_	4	-	A	77	28-9	12	_	_	_	6	6	D D
23	18-11	5	_	_	-	5	_	A	78	28-10	7	-	2	2	3	-	A,D
24	18-12	6	-	-	-	-	6	А	79	28-11	22	-	-	-	4	18	A
25	20-2	1	1	-	-	-	-	D	80	28-12	26	-	-	-	-	26	А
26	20-3	3	-	-	-	3-	-	D	81	28-13	26	-	-	-	-	26	А
27	20-4	4	-	-	-	4	-	D	82	28-15	35	-	-	-	-	35	А
28	20-7	8	-	-	-	-	8	A,D	83	28-16	20	-	-	-	-	20	A
29	20-8	6	-	-	2	-	4	INST	84	28L-16	9	-	4	-	-	5	A
30	20L-9	9	-	-	-	9	-	INST	85	28-18	12	-	-	-	-	12	A,C,D.INST
31	20-14	5	-	-	2	3	-	A	86	28-19	10	-	-	-	4	6	A,B,D
32	20-15	7	-	-	-	7	7	A	87	28-20	14	-	-	-	10	37	A
34	20-16	9	-	-	-	5	7	A A	88	28-21 28-22	37 6	-	3	-	-	3	A D
35	20-17	9	-	_	-	3	6	A	90	28L-51	43	_	-	-	-	43	A
36	20-19	3	_	-	3	-	-	A	91	28L-61	16	_	_	-	16	-	A
37	20-23	2	_	_	2	-	_	A	92	32-3	9	1	2	-	2	4	D
38	20-24	4	-	-	2	-	2	А	93	32-4	14	-	-	-	2	12	A,D
39	20-27	14	-	-	-	-	14	А	94	32-5	2	2	-	-	-	-	D
40	20-29	17	-	-	-	-	17	А	95	32-6	23	-	2	3	2	16	А
41	20-33	11	-	-	-	-	11	А	96	32-7	35	-	-	-	7	28	A,INST
42	20L-48	19	-	-	-	-	19	INST	97	32-8	30	-	-	-	6	24	A
43	22-2	3	-	-	3	-	-	А	98	32-9	14	-	2	-	-	12	D
44	22-7	1	1	-	-	-	-	E	99	32L-10	54	-	-	-	-	54	A
45	22-9	3	-	-	-	3	-	E	100	32-17	4	-	4	-	-	-	D
46	22-10	4	-	-	-	-	4	E	101	32L-68	16	-	4	-	-	12	A
47 48	22-14 22-15	19	-	-	-	- 5	19 1	A A,E	102	36-5 36-9	31	4	1	2	- 14	- 14	A
48	22-15	9		-	-	3	6	A,E A	103	36-10	48	-	_	_	- 14	48	A
50	22-10	8		_	-	-	8	A,D	104	36-14	16	_	_	5	5	6	D
51	22-10	14		-	-	_	14	A,D A	106	36-15	35	_	-	-	-	35	A,D
52	22-20	9	_	-	-	-	9	A	107	36L-34	52	-	_	-	-	52	A
53	22-22	4	-	-	4	-	-	A	108	36L-46	27	-	-	-	27	-	A
54	22-23	8	-	-	-	8	-	A,D	109	36-52	52	-	-	-	-	52	А
55	22-29	7	-	1	-	-	6	А		Shell size 40 availa	able - Contac	t Factory	/	1		1	

^{*} CONSULT FACTORY BEFORE ORDERING

SPECIAL INSERT ARRANGEMENTS ALSO AVAILABLE,
Shell sizes 12S & 44 for RANGE MS ONLY.



GENERAL SPECIFICATION

Shell Housing	Aluminium alloy
Plating	Olive drab chromate conversion over Cadmium
Insulator	Polychloroprene
Contact Material	Copper base alloy - Silver plated
Operating Temperature	- 55° C to +125° C
Insulation Resistance	Min. 5000 Meg Ohms at 500 VDC
Current rating	10 to 150 Amps. (Depends on contact arrangement)
Working voltage	200 to 3000 VAC rms (Depends on contact arrangement)
Wire termination	Solder type

SERVICE RATING

	INST	А	D	Е	В	С
Test Voltage	1000	2000	2800	3500	4500	7000
at Sea level AC rms						
Rated working Voltage - DC	250	700	1250	1750	2450	4200
At sea level AC rms	200	500	900	1250	1750	3000
Effective creepage-(nom. mm)	1.57	3.18	4.75	6.35	7.92	25.40
Mechanical spacing-(nom. mm)	-	1.57	3.18	4.75	6.35	7.92

CONTACT RATING

CONTACT SIZE	16	12	8	4	0
Max test current - Amps	22	41	73	135	245
Rated current - Amps	13	23	46	80	150

Information provided in this catalogue should be used for guidelines only. Users, however, should independently evaluate the suitability of product, depending on application. Information / illustrations are subject to change without prior notice.

ORDERING INFORMATION

CONNECTORS

Example: MG 02R 28-21 P W GP XX

SERIES PREFIX

For reverse bayonet coupling connectors

SHELL STYLES

00T - Box mounting Receptacle with rear accessory thread

00F - As 00T with cable clamp

01F - Cable Extension connector

02R - Box Mounting receptacle

06F - Cable connector straight

08F - Cable connector angular

06V - As 06F but with arctic grip coupling nut

08V - As 08F but with arctic grip coupling nut

TBF - Bulkhead receptacle

INSERT NUMBER

Consist of Shell Size 10SL, 14S, 16S,16 18,20,22,24,28,32,36

Contact arrangement code number as per MIL-C-5015

See Insert Specifications

CONTACT TYPE

P - Pin (male contact)

S - Socket (female contact)

ALTERNATE INSERT POSITION

(omit for standard position)

W, X, Y OR Z for alternate position depending on insert

FINISH (omit for standard)

GP - Flash Gold plated contacts solder only

EN - Electroless nickel plated shell

NI - Nickel plated shell

MODIFICATION (Omit for standard)

B-05 Box mounting receptacle for rear mounting (Applies to type MG 02R only)

A-30 Crimp contacts-Silver plated

C-30 Crimp contacts-flash Gold plated-available in selected sizes

(contact sales department for details)

TH - Threaded mounting holes (Applies to receptacles only)

211 - Less backshell grommet & follower

PMC - Pre mating contact

For other modification requirements contact Factory.

PROTECTIVE CAPS

Example: MG XX XX CC

SERIES PREFIX

for reverse bayonet coupling connector

SHELL STYLE

02 - Receptacle

06 - Cable connectors

ACCESSORY TYPE Cap and chain

SHELL SIZE

10SL,14S,16S,16,18,20,22,24,28,32,36