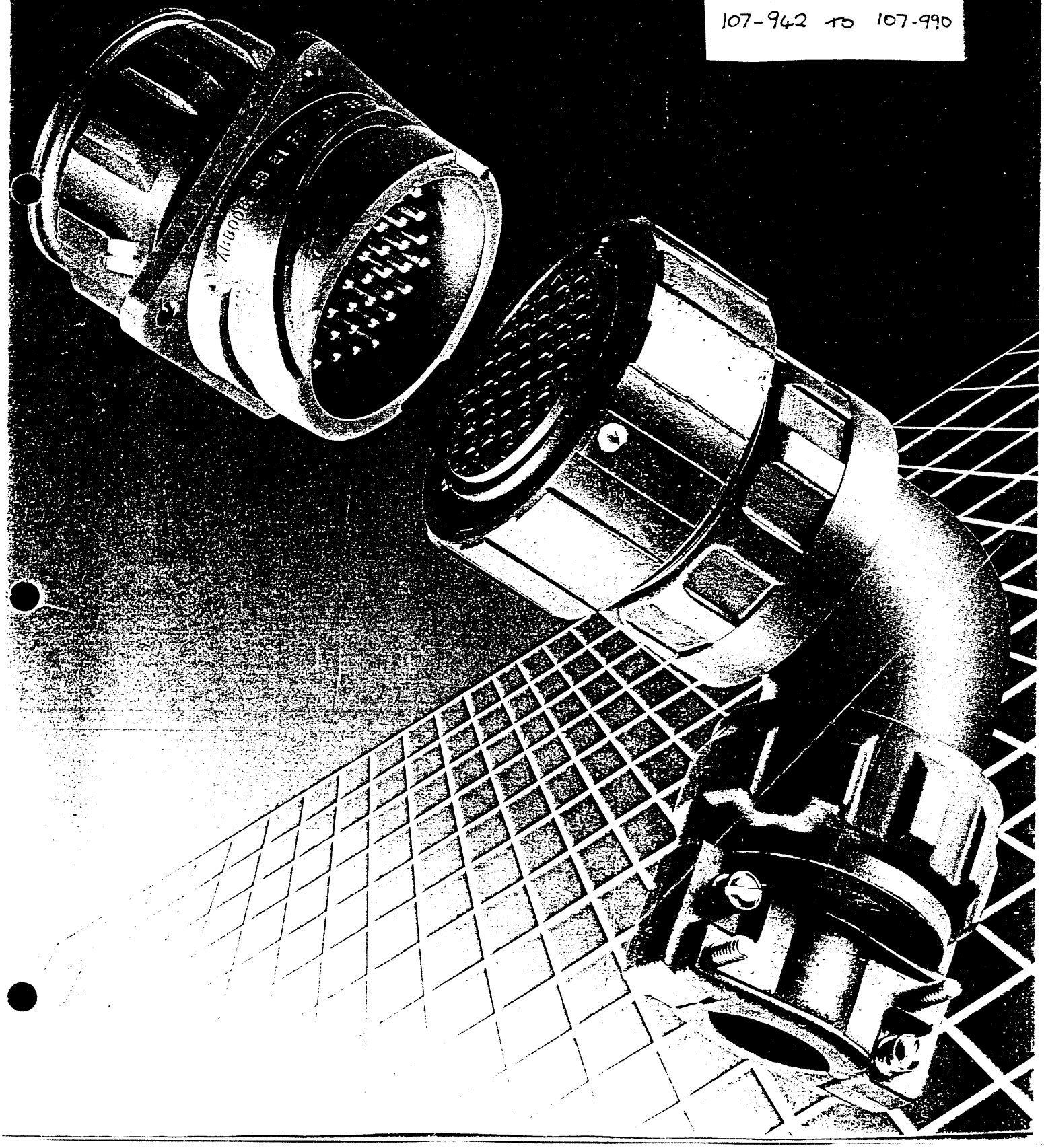
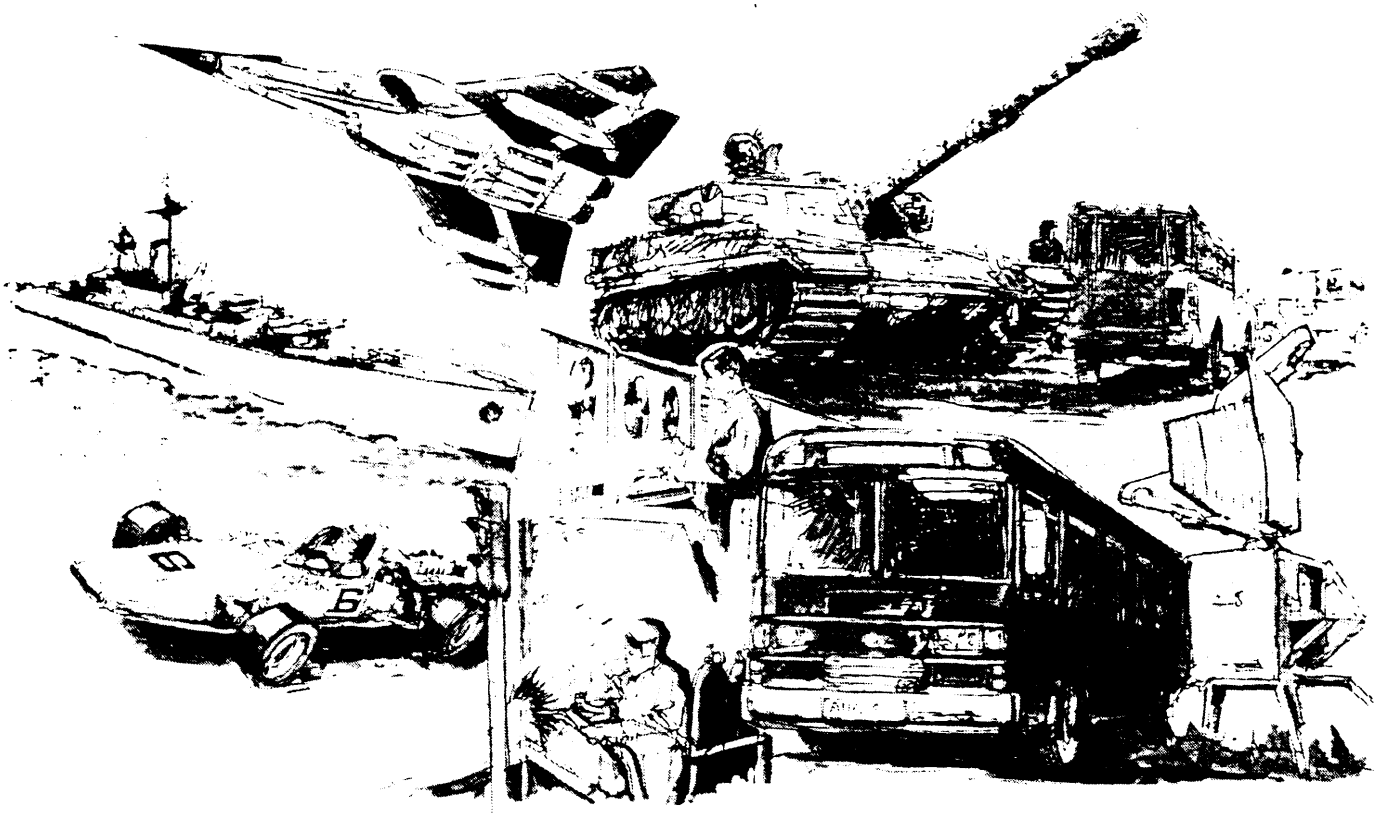
AB CONTROLS AND CONNECTORS LTD

ABB MS BAYONET SERIES

107-942 to 107-990





The ABB M.S. bayonet connector series, based on the M.S. series of connectors conforming to U.S.A. specification Mil-C-5015 and initially developed for aircraft applications, is today extensively used in the fighting vehicle, commercial land and sea transportation, telecommunication and general industrial markets.

ABB connectors are interchangeable with all corresponding M.S. types and feature identical panel mounting dimensions and contact arrangements. These connectors are not intermateable with standard M.S. types due to the bayonet lock coupling feature.

Positive coupling is indicated by an audible snap and visually by the alignment of three red dots on the receptacle and on the plug.

Protection against water ingress is provided by the use of a dynamic sealing ring under the coupling nut and by grommet wire sealing at the rear of the connector.

A wavy washer assembly, also situated under the coupling nut, ensures excellent shielding continuity characteristics between mated connectors in applications where radio frequency interference must be eliminated and shell continuity assured.

ABB connectors are approved to BS 9522 FOO32, formerly DEF Standard 59-35 pattern 121B and VG95234 (Germany) Standards and are designed to meet the requirements of TDE 77/R/42 (British Rail) and TD00101 (Italy).

Contents

GENERAL INFORMATION

STANDARD DATA

Materials

SHELL: Aluminium alloy.
INSULATOR: Polychloroprene.
GROMMET: Polychloroprene.
CONTACTS: Copper alloy.
ACCESSORY HARDWARE: Aluminium alloy.

Plating Finishes

SHELL: Olive drab chromate over cadmium plate.
CONTACTS: Hard silver over nickel plate (gold optional).
ACCESSORY HARDWARE: Olive drab chromate over cadmium plate. Alternative finishes are available.

Mechanical features

SHELL SIZE: In sixteenths of an inch.
COUPLING: Bayonet.

Contact arrangement	
10SL-3 10SL-4	24-2 24-7
14S-2 14S-5 14S-6 14S-7	24-10 24-11 24-12 24-22
16S-1 16-10 16-12	28-10 28-11 28-20
18-1 18-11	28-21 28-A63
20-2 20-8 20-A9 20-15 20-21 20-A48	32-1 32-3 32-6 32-7 32-A69
22-2 22-12 22-14 22-19 22-22 22-27	36-5 36-6 36-10

NUMBER OF WAYS: 1-61
Contact termination: Crimp or Solder

SEALING: Dynamic sealing ring and grommet.

TECHNICAL DATA

TEMPERATURE RANGE: At maximum current per contact + 85°C
ENVIRONMENTAL RATING – 55°C to + 125°C.

Contact Current Ratings

Contact Size AWG	Contact Size Metric	Maximum Current	Rated Current
16/16S	15/15S	22A	13A
12	25	41A	23A
8	60/100	73A	46A
4	160	135A	80A
0	500	245A	150A

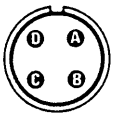
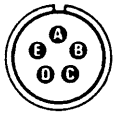
Voltage at sea level

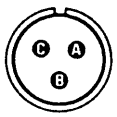
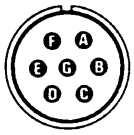
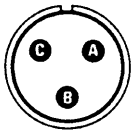
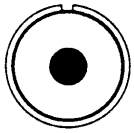
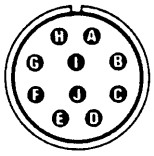
(a) Working voltage - d.c. or a.c. peak 350V to 1750V.
(b) Proof voltage - d.c. or a.c. peak 1050V to 3000V.

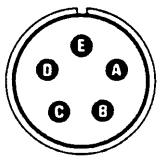
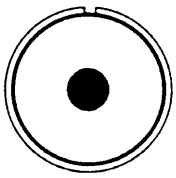
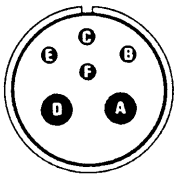
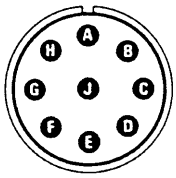
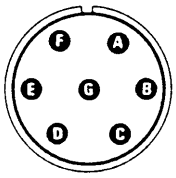
Environmental Ratings

(A) Shock severity: 75g.
(B) Vibration: 5-500 Hz long endurance 144hr test at 10g.
(C) Acceleration: 13g.
(D) Humidity severity: H6 (6 cycles acc 56 days).

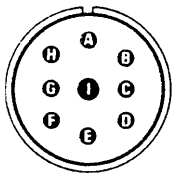
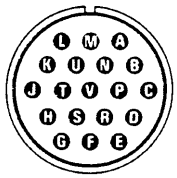
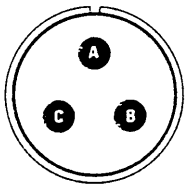
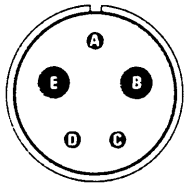
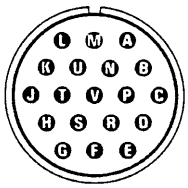
CONTACT ARRANGEMENTS

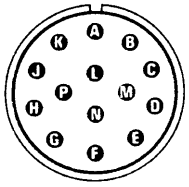
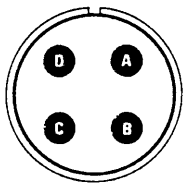
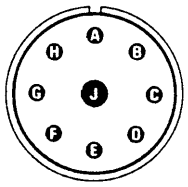
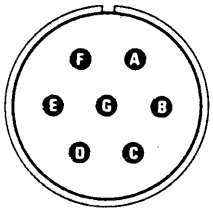
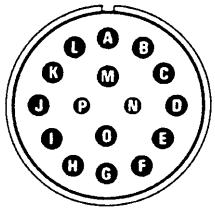
SHELL SIZE	10SL	10SL	14S	14S	14S
					
Contact Arrangement	10SL-3	10SL-4	14S-2	14S-5	14S-6
No. of Contacts x Size AWG (Metric)	3#16S(15S)	2#16S(15S)	4#16S(15S)	5#16S(15S)	6#16S(15S)
Service Rating	A	A	INST	INST	INST

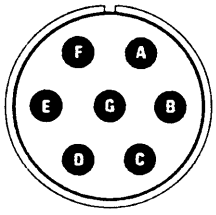
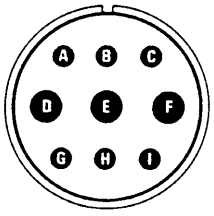
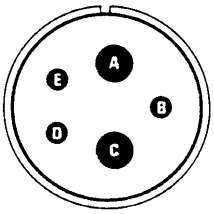
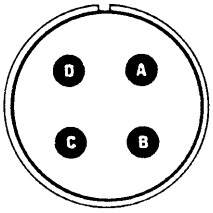
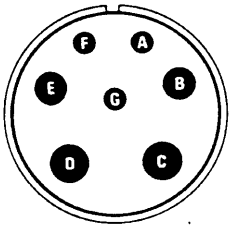
SHELL SIZE	14S	16S	16	16	18
					
Contact Arrangement	14S-7	16S-1	16-10	16-12	18-1
No. of Contacts x Size AWG (Metric)	3#16S(15S)	7#16S(15S)	3#12(25)	1#4(160)	10#16(15)
Service Rating	A	A	A	A	A & INST

SHELL SIZE	18	20	20	20	20
					
Contact Arrangement	18-11	20-2	20-8	20-A9	20-15
No. of Contacts x Size AWG (Metric)	5#12(25)	5#0(500)	4#16(15) 2#8(100)	9#12(25)	7#12(25)
Service Rating	A	D	INST	D	A

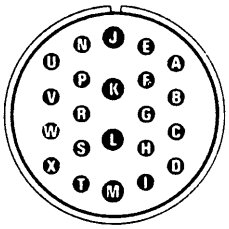
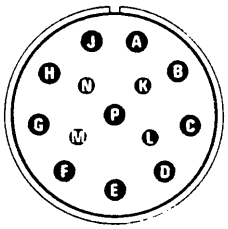
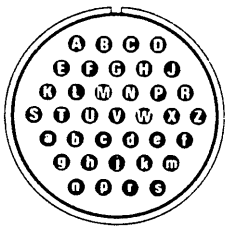
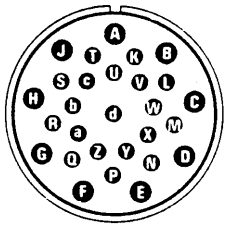
CONTACT ARRANGEMENTS

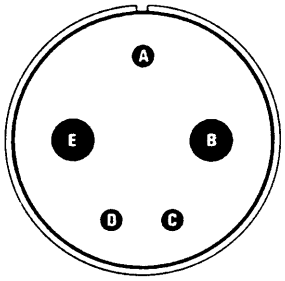
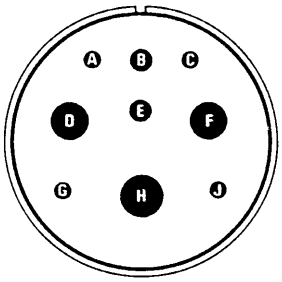
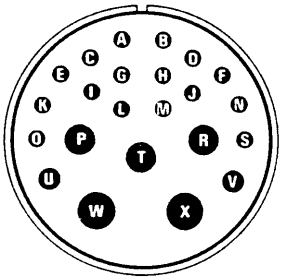
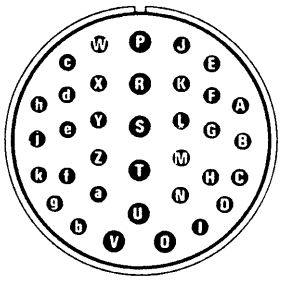
SHELL SIZE	20	20	22	22	22
					
Contact Arrangement	20-21	20-A48	22-2	22-12	22-14
No. of Contacts x Size AWG (Metric)	8#16(15) 1#12(25)	19#16(15)	3#8(100)	2#8(100) 3#16(15)	19#16(15)
Service Rating	A	INST	D	D	A

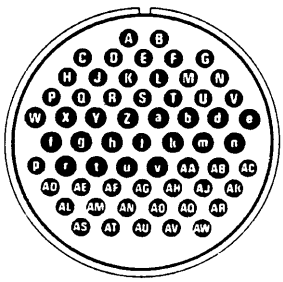
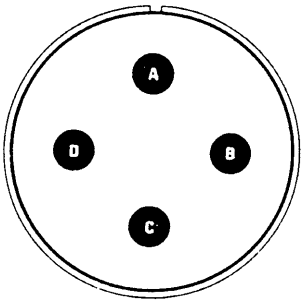
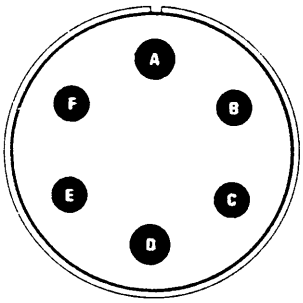
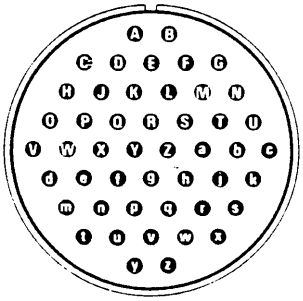
SHELL SIZE	22	22	22	24	24
					
Contact Arrangement	22-19	22-22	22-27	24-2	24-7
No. of Contacts x Size AWG (Metric)	14#16(15)	4#8(100)	1#8(60) 8#16(15)	7#12(25)	14#16(15) 2#12(25)
Service Rating	A	A	A&D	D	A

SHELL SIZE	24	24	24	24	28
					
Contact Arrangement	24-10	24-11	24-12	24-22	28-10
No. of Contacts x Size AWG (Metric)	7#8(100)	6#12(25) 3#8(100)	3#12(25) 2#4(160)	4#8(100)	3#12(25) 2#8(100) 2#4(160)
Service Rating	A	A	A	D	A&D

CONTACT ARRANGEMENTS

SHELL SIZE	28	28	28	28
				
Contact Arrangement	28-11	28-20	28-21	28-A63
No. of Contacts x Size AWG (Metric)	8#16(15) 4#12(25)	4#16(15) 10#12(25)	37#16(15)	19#16(15) 9#12(25)
Service Rating	A	A	A	A & INST

SHELL SIZE	32	32	32	32
				
Contact Arrangement	32-1	32-3	32-6	32-7
No. of Contacts x Size AWG (Metric)	3#12(25) 2#0(500)	4#16 2#12 2#4 1#0	16#16(15) 2#12(25) 3#8(60) 2#4(160)	28#16(15) 7#12(25)
Service Rating	E&D	D	A	A & INST

SHELL SIZE	32	36	36	36
				
Contact Arrangement	32-A69	36-5	36-6	36-10
No. of Contacts x Size AWG (Metric)	41#-(10) 20#16(15)	4#0(500)	2#0(500) 4#4(160)	48#16(15)
Service Rating	INST	A	A	A

SELECTION CHART

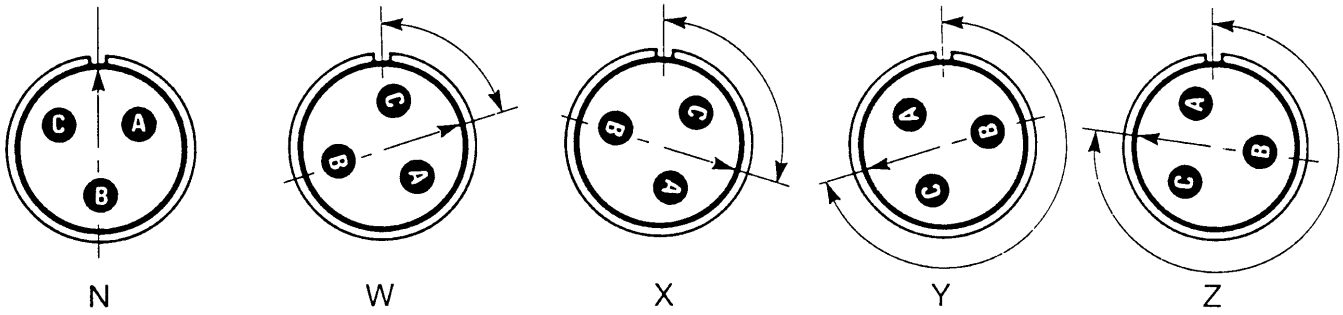
SHELL SIZE	CONTACT ARRANGt	NO. OF CONTACTS	CONTACT SIZE (AWG/METRIC) & CURRENT RATING (DERATED) (Amps) - at 85°C ambient						SHELL ORIENTn	SERVICE RATING
			20 (10)	16/16S (15/15S)	12 (25)	8 (60/100)	4 (160)	0 (500)		
10SL	3	3		3 x 10A					N	A
10SL	4	2		2 x 10A					N	A
14S	2	4		4 x 10A					NXY	Inst
14S	5	5		5 x 10A					NX	Inst
14S	6	6		6 x 10A					N	Inst
14S	7	3		3 x 10A					NWXY	A
16S	1	7		7 x 10A					NWZ	A
16	10	3			3 x 20A				NWXY	A
16	12	1					1 x 75A		N	A
18	1	10		10 x 10A					NWXYZ	*A & Inst
18	11	5			5 x 20A				NXY	A
20	2	1						1 x 135A	N	D
20	8	6		4 x 10A		2 x 42A			NWXYZ	Inst
20	A9	9			9 x 20A				NXY	*D & Inst
20	15	7			7 x 20A				NWZ	A
20	21	9		8 x 10A	1 x 20A				NWXYZ	A
20	A48	19		19 x 10A					NXY	Inst
22	2	3				3 x 42A			NWXYZ	D
22	12	5		3 x 10A		2 x 42A			NWXYZ	D
22	14	19		19 x 10A					NWXYZ	A
22	19	14		14 x 10A					NWXYZ	A
22	22	4				4 x 42A			NXY	A
22	27	9		8 x 10A		1 x 42A			NWYZ	*A & D
24	2	7			7 x 20A				NWZ	D
24	7	16		14 x 10A	2 x 20A				NWXYZ	A
24	10	7				7 x 42A			NWZ	A
24	11	9			6 x 20A	3 x 42A			NWXYZ	A
24	12	5			3 x 20A		2 x 75A		NWXYZ	A
24	22	4				4 x 42A			NWXY	D
28	10	7			3 x 20A	2 x 42A	2 x 75A		NWXYZ	*A & D
28	11	22		18 x 10A	4 x 20A				NWXYZ	A
28	20	14		4 x 10A	10 x 20A				NWXYZ	A
28	21	37		37 x 10A					NWXYZ	A
28	A63	28		19 x 10A	9 x 20A				NXY	*A & Inst
32	1	5			3 x 20A			2 x 135A	NWXYZ	E & D
32	3	9		4 x 10A	2 x 20A		2 x 75A	1 x 135A	NWXYZ	D
32	6	23		16 x 10A	2 x 20A	3 x 42A	2 x 75A		NWXYZ	A
32	7	35		28 x 10A	7 x 20A				NWXYZ	*A & Inst
32	A69	61	41 x 5A	20 x 10A					NXY	Inst
36	5	4						4 x 135A	NXY	A
36	6	6					4 x 75A	2 x 135A	NWXYZ	A
36	10	48		48 x 10A					NWXYZ	A

SERVICE RATING	SEA LEVEL 1013 mbar				8,500m (27,800 ft) 300 mbar			
	Inst	A	D	E	Inst	A	D	E
WORKING VOLTAGE DC or AC peak	350	700	1250	1750	100	200	350	500
VOLTAGE PROOF DC or AC peak	1050	2100	3000	3000	300	600	900	900

*** Contact arrangements/ service ratings**

18-1 Contacts B,C,F,G	= A Balance	= Inst
20-A9 Contacts J	= D Balance	= Inst
22-27 Contacts J	= D Balance	= A
28-10 Contacts G	= D Balance	= A
28-A63 Contacts e	= A Balance	= Inst
32-1 Contacts A	= D Balance	= E
32-7 Contacts A,B,h & j	= Inst Balance	= A

ALTERNATIVE INSERT ORIENTATIONS



View On Mating Face Of Pin Insert

CONTACT ARRANGEMENT	ANGULAR DISPLACEMENT OF INSERT			
	W	X	Y	Z
10SL-3	–	–	–	–
10SL-4	–	–	–	–
14S-2	–	120	240	–
14S-5	–	110	–	–
14S-6	–	–	–	–
14S-7	90	180	270	–
16S-1	80	–	–	280
16-10	90	180	270	–
16-12	–	–	–	–
18-1	70	145	215	290
18-11	–	170	265	–
20-2	–	–	–	–
20-8	80	110	250	280
20-A9	–	110	250	–
20-15	80	–	–	280
20-21	35	110	250	325
20-A48	–	80	280	–
22-2	70	145	215	290
22-12	80	110	250	280
22-14	80	110	250	280
22-19	80	110	250	280
22-22	–	110	250	–
22-27	80	–	–	280
24-2	80	–	–	280
24-7	80	110	250	280
24-10	80	–	–	280
24-11	35	110	250	325
24-12	80	110	250	280
24-22	45	110	250	–
28-10	80	110	250	280
28-11	80	110	250	280
28-20	80	110	250	280
28-21	80	110	250	280
28-A63	–	100	260	–
32-1	80	110	250	280
32-3	80	110	250	280
32-6	80	110	250	280
32-7	80	125	235	280
32-A69	–	110	250	–
36-5	–	120	240	–
36-6	35	110	250	325
36-10	80	125	235	280

CONNECTOR AND ACCESSORIES COMPATIBILITY

Compatibility of ABB (121B/VG)- BS 9522 F0032 Grommets/Accessories

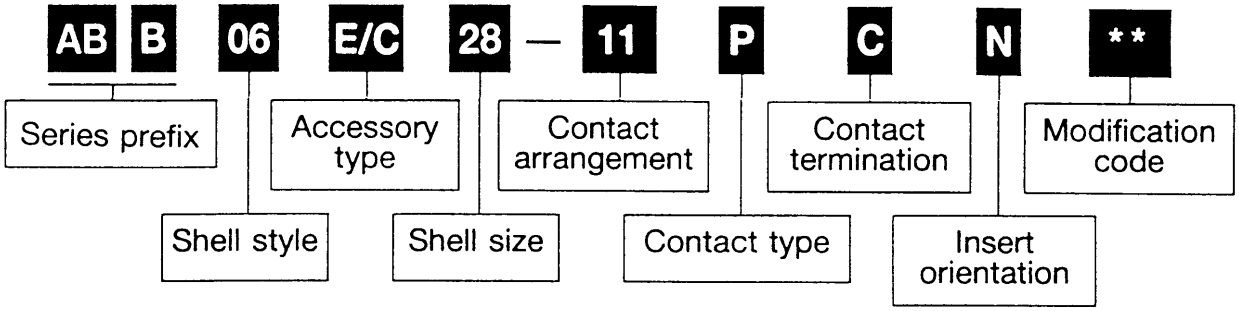
Contact Arrangement	Solder	Crimp
10SL-3	1	1
10SL-4	1	1
14S-2	1	1
14S-5	1	1
14S-6	1	1
14S-7	1	1
16S-1	1	1
16-10	1	1
16-12	1	1
18-1	1	1
18-11	1	1
20-2	1	1
20-8	1	1
20-A9	1	1
20-15	*	*
20-21	1	1
20-A48	1	1
22-2	1	1
22-12	1	1
22-14	1	1
22-19	1	1
22-22	1	1
22-27	1	1
24-2	1	1
24-7	1	1
24-10	1	1
24-11	1	1
24-12	1	1
24-22	1	1
28-10	1	1
28-11	1	1
28-20	1	1
28-21	1	1
28-A63	1	1
32-1	1	1
32-3	1	1
32-6	1	1
32-7	1	1
32-A69	1	1
36-5	1	1
36-6	1	1
36-10	1	1

Compatibility of SBMS - BS 9522 F0030 Grommets/Accessories

Contact Arrangement	Solder	Crimp
10SL-3	1	1
10SL-4	1	1
14S-2	1	1
14S-5	1	1
14S-6	1	1
14S-7	1	1
16S-1	1	1
16-10	1	0
16-12	*	*
18-1	1	1
18-11	1	0
20-2	1	1
20-8	*	*
20-A9	*	*
20-15	1	0
20-21	*	*
20-A48	1	1
22-2	1	0
22-12	*	*
22-14	1	1
22-19	1	1
22-22	1	0
22-27	*	*
24-2	1	1
24-7	1	0
24-10	*	*
24-11	1	0
24-12	1	0
24-22	*	*
28-10	1	0
28-11	1	0
28-20	*	*
28-21	1	1
28-A63	*	*
32-1	1	1
32-3	*	*
32-6	1	0
32-7	1	0
32-A69	*	*
36-5	*	*
36-6	*	*
36-10	1	1

Notation: 1= Compatible; 0= Non-Compatible; *= Consult Factory.

PART NUMBER EXPLANATION



Series prefix: **ABB** (Approved to BS9522 FOO32 & VG95234).

Shell size: **00** Square flange receptacle front panel mounting.
01 Cable mounted receptacle.
03 Square flange receptacle rear panel mounting.
06 Plug with arctic grip coupling nut and RFI grounding.
NS06 Plug with arctic grip coupling nut. No RFI grounding.
E06 Plug with fine knurl grip coupling nut. No RFI grounding.
SE06 Plug with fine knurl grip coupling nut with RFI grounding.
07 Bulkhead receptacles.
08 Plugs with 90° angled outlet.
NS08, **E08**, **SE08** Coupling nut types and RFI grounding as per 06 versions above.

Accessory type: **A** - No rear threads and no accommodation for accessories . Shell styles 00 & 03.
D - Straight Cable Clamp. BS9522 F0032/VG95234 approved.
E - 5MS Plain grommet, grommet nut and follower. BS9522 F0030 approved.
E/C - 5MS Cable Clamp and grommet + follower. BS9522 F0030 approved.
E/A - 5MS 90° Outlet with plain grommet nut and grommets. BS9522 F0030 approved.
E/AC - 5MS 90° Outlet with 5MS Cable Clamp and grommets. BS9522 F0030 approved.
E/AT - 5MS 90° Outlet with rear end threads for accessory accommodation. BS9522 F0030 approved.
E/MC - 5MS Multicore Cable Clamp and grommet + follower. BS9522 F0030 approved.
G - Heat shrink adaptor. BS9522 F0032/VG95234 approved.
H - Conduit termination adaptor. BS9522 F0032/VG95234 approved.
H/C - Locking Cable Clamp. BS9522 F0032/VG95234 approved.
M - Adaptor for termination of shielding braids. BS9522 F0032/VG95234 approved.
F - 90° Angled outlet with Cable Clamp. BS9522 F0032/VG95234 approved.
FT - 90° Angled Outlet with rear end threads for conduit termination. BS9522 F0032/VG95234 approved.
T - Rear threads for accessory accommodation.

Shell size: **10SL to 36** (00 in sixteenths of an inch)

Contact arrangement: See Pages 3 to 5

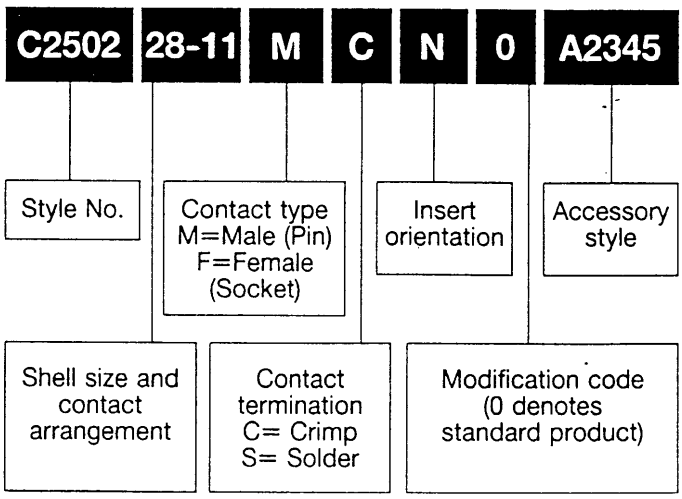
Contact type: **P** Pin, **S** Socket, **H** Bulkhead (07) receptacle only.

Contact termination: **S** Solder, non-removable
C Crimp, removable.

Insert orientation: **N** Normal, **W, X, Y, Z** alternative insert positions. See Table Page 7

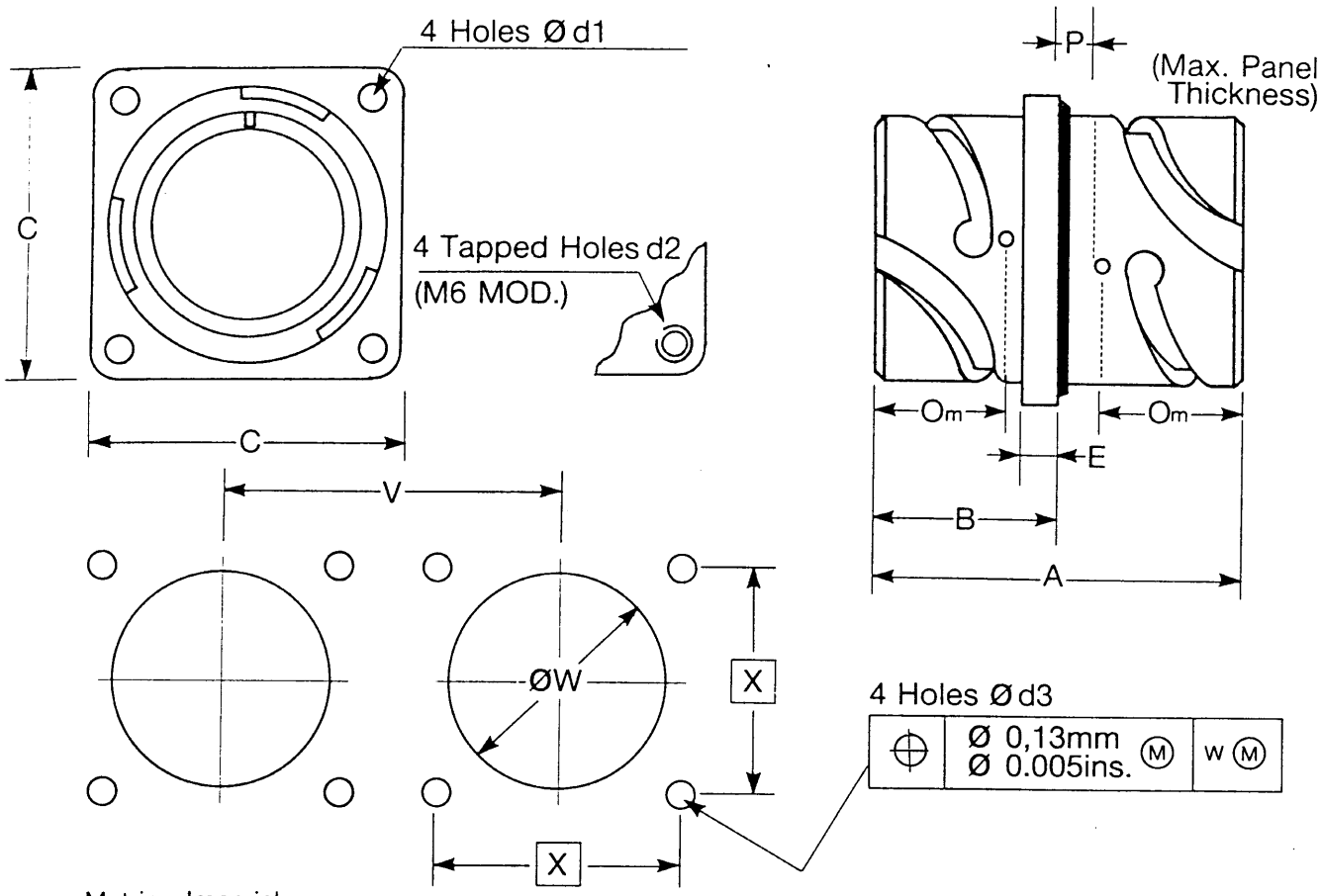
Modification code: **M1** Connector shell size 36 has 2" x 18 UNS thread to suit 5MS - BS9522 F0030 accessories and British Rail applications.
M2 Silver Cadmium finish.
M6 Metric tapped mounting holes shell styles 00, 03 and 07.
M7 Metric crimp contact supplied.
M8 Metric tapped mounting holes and metric contacts.
V0 Connectors supplied without crimp contacts.
P1 Gold plated contacts 1.11/1.5μM gold over 3.6/4.3μM nickel.
No code shown for standard product as per specification on Page 2

Typical BS part number



See Page 37 for complete AB-BS9522 F0032 cross reference.

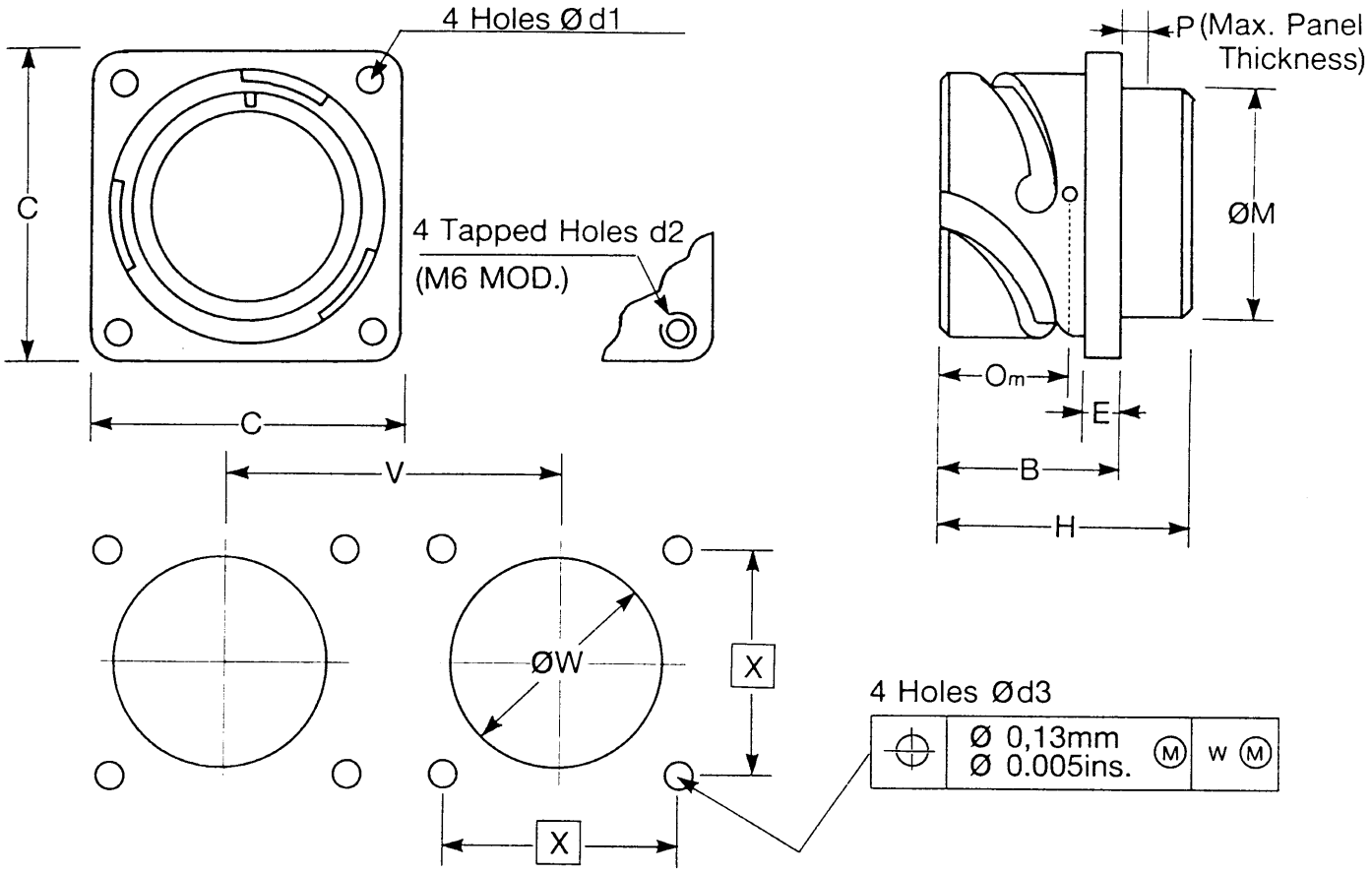
Bulkhead Receptacle -
AB Style: ABB07/ABB07...M6. BS Style: No. C2507/C2508



Metric Imperial

Shell size	A max	B max	C max	Ød1 +0.2-0 +0,008-0	d2 Thread	E max	P	Om min overlap mated	Ød3 H13	V	W	X
10 SL	38,2 1.504	17,6 0.693	25,7 1.012	3,2 0.126	M4	3,0 0.118	3,3 0.130	11,1 0.437	3,4 0.134	26,6 0.147	18,58 0.732	18,2 0.717
14 S	38,2 1.504	18,0 0.709	30,3 1.193	3,2 0.126	M4	3,4 0.134	3,3 0.130	11,1 0.437	3,4 0.134	31,6 1.244	24,98 0.984	23,0 0.906
16 S	38,2 1.504	18,0 0.709	32,8 1.291	3,2 0.126	M4	3,4 0.134	3,3 0.130	11,1 0.437	3,4 0.134	34,4 1.354	27,78 1.094	24,6 0.969
16	52,1 2.051	22,8 0.898	32,8 1.291	3,2 0.126	M4	3,4 0.134	3,3 0.130	15,85 0.624	3,4 0.134	34,4 1.354	27,78 1.094	24,6 0.969
18	52,1 2.051	23,6 0.929	35,3 1.390	3,2 0.126	M4	4,2 0.165	3,3 0.130	15,85 0.624	3,4 0.134	38,3 1.508	31,18 1.228	27,0 1.063
20	52,1 2.051	23,6 0.929	38,3 1.508	3,2 0.126	M4	4,2 0.165	3,3 0.130	15,85 0.624	3,4 0.134	41,7 0.642	34,58 1.361	29,4 1.157
22	52,1 2.051	23,6 0.929	41,3 1.626	3,2 0.126	M4	4,2 0.165	3,3 0.130	15,75 0.620	3,4 0.134	45,2 1.780	37,78 1.484	31,8 1.252
24	52,1 2.051	25,2 0.992	44,8 1.764	3,7 0.146	M4	4,2 0.165	3,3 0.130	15,75 0.620	3,9 0.154	48,7 1.917	41,28 1.625	34,9 1.374
28	52,1 2.051	25,2 0.992	51,1 2.012	3,7 0.146	M5	4,2 0.165	3,3 0.130	15,75 0.620	3,9 0.154	55,5 2.185	47,08 1.854	39,7 1.563
32	52,1 2.051	26,8 1.055	57,3 2.256	4,3 0.169	M5	4,2 0.165	3,3 0.130	15,75 0.620	4,5 0.177	62,4 2.457	53,78 2.117	44,5 1.752
36	52,1 2.051	26,8 1.055	63,8 2.512	4,3 0.169	M5	4,2 0.165	3,3 0.130	15,75 0.620	4,5 0.177	69,0 2.717	59,98 2.361	49,2 1.937

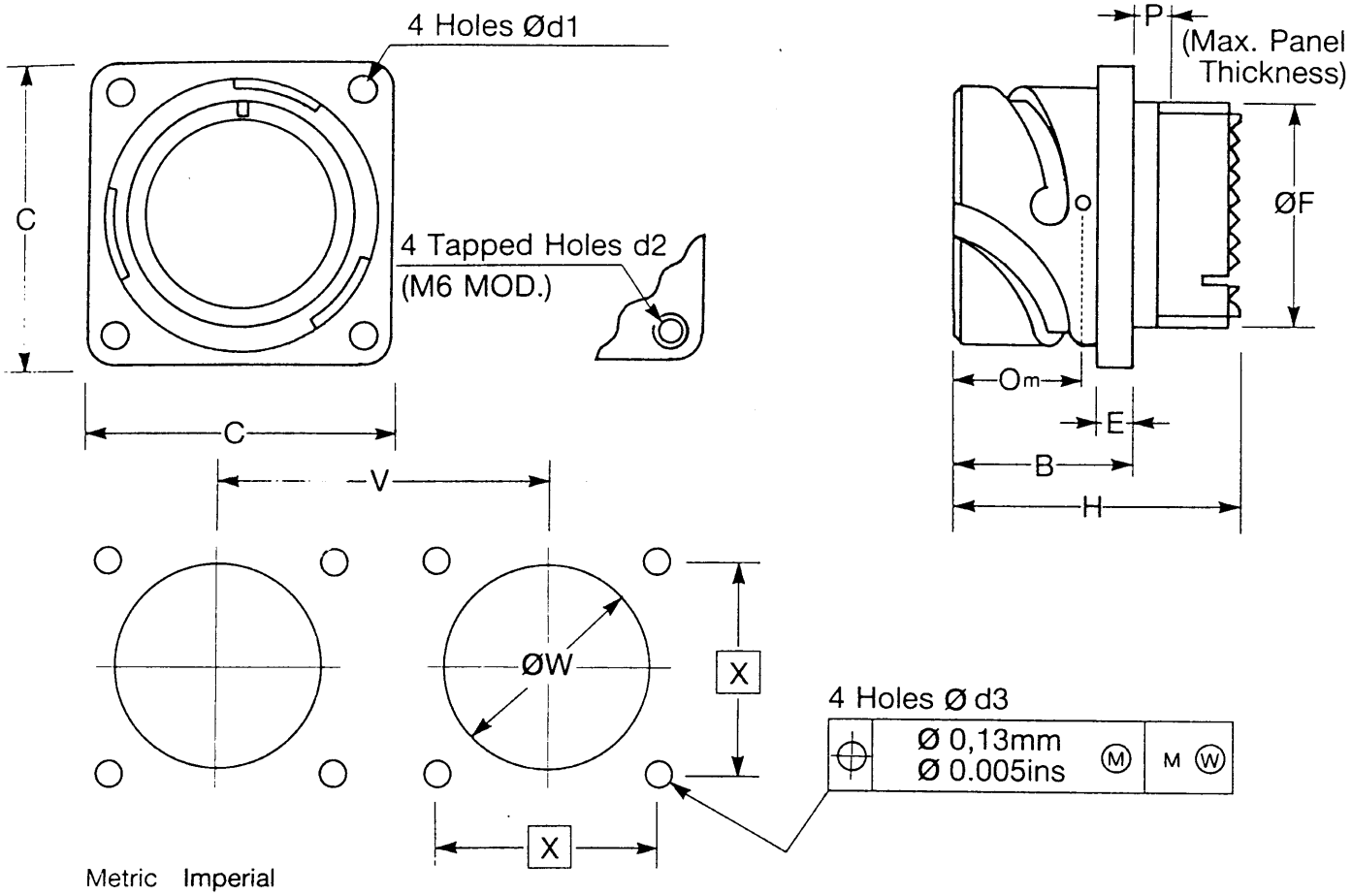
Square Flange Receptacle - Front Mounting (No Acc. Thd.)
AB Style: ABB00A/ABB00A...M6.



Metric Imperial

Shell size	B max	C max	Ød1 +0,2-0 +0.008-0	d2 Thread	E max	ØM max	H max	P	Ommin overlap mated	Ød3 H13	V	W	X
10 SL	17,6 0.693	25,7 1.012	3,2 0.126	M4	3,0 0.118	16,1 0.634	24,7 0.972	3,3 0.130	11,1 0.437	3,4 0.134	26,6 1.047	16,13 0.635	18,2 0.717
14 S	18,0 0.709	30,3 1.193	3,2 0.126	M4	3,4 0.134	19,2 0.756	24,7 0.972	3,3 0.130	11,1 0.437	3,4 0.134	31,6 1.244	19,3 0.760	23,0 0.909
16 S	18,0 0.709	32,8 1.291	3,2 0.126	M4	3,4 0.134	22,4 0.882	24,7 0.972	3,3 0.130	11,1 0.437	3,4 0.134	34,4 1.354	22,48 0.885	24,6 0.969
16	22,8 0.898	32,8 1.291	3,2 0.126	M4	3,4 0.134	22,4 0.882	33,8 1.331	3,3 0.130	15,85 0.624	3,4 0.134	34,4 1.354	22,48 0.885	24,6 0.969
18	23,6 0.929	35,3 1.390	3,2 0.126	M4	4,2 0.165	25,6 1.008	33,8 1.331	3,3 0.130	15,85 0.624	3,4 0.134	38,3 1.508	25,65 1.010	27,0 1.063
20	23,6 0.929	38,3 1.508	3,2 0.126	M4	4,2 0.165	28,75 1.132	33,8 1.331	3,3 0.130	15,85 0.624	3,4 0.134	41,7 1.642	28,83 1.135	29,4 1.157
22	23,6 0.929	41,3 1.626	3,2 0.126	M4	4,2 0.165	31,92 1.257	33,8 1.331	3,3 0.130	15,75 0.620	3,4 0.134	45,2 1.780	32,00 1.260	31,8 1.252
24	25,2 0.992	44,8 1.764	3,7 0.146	M4	4,2 0.165	35,10 1.382	33,8 1.331	3,3 0.130	15,75 0.620	3,9 0.154	48,7 1.917	35,18 1.385	34,9 1.374
28	25,2 0.992	51,1 2.012	3,7 0.146	M5	4,2 0.165	41,4 1.630	33,8 1.331	3,3 0.130	15,75 0.620	3,9 0.154	55,5 2.185	41,53 1.635	39,7 1.563
32	26,8 1.055	57,3 2.256	4,3 0.165	M5	4,2 0.165	47,8 1.882	33,8 1.331	3,3 0.130	15,75 0.620	4,5 0.177	62,4 2.457	47,88 1.885	44,5 1.752
36	26,8 1.055	63,8 2.512	4,3 0.165	M5	4,2 0.165	52,6 2.071	33,8 1.331	3,3 0.130	15,75 0.620	4,5 0.177	69,0 2.717	52,65 2.073	49,2 1.937

Square Flange Receptacle - Front Mounting (with Acc. Thd.)
AB Style: ABBOOT/ABBOOT...M6. BS Style: C2503/C2504.

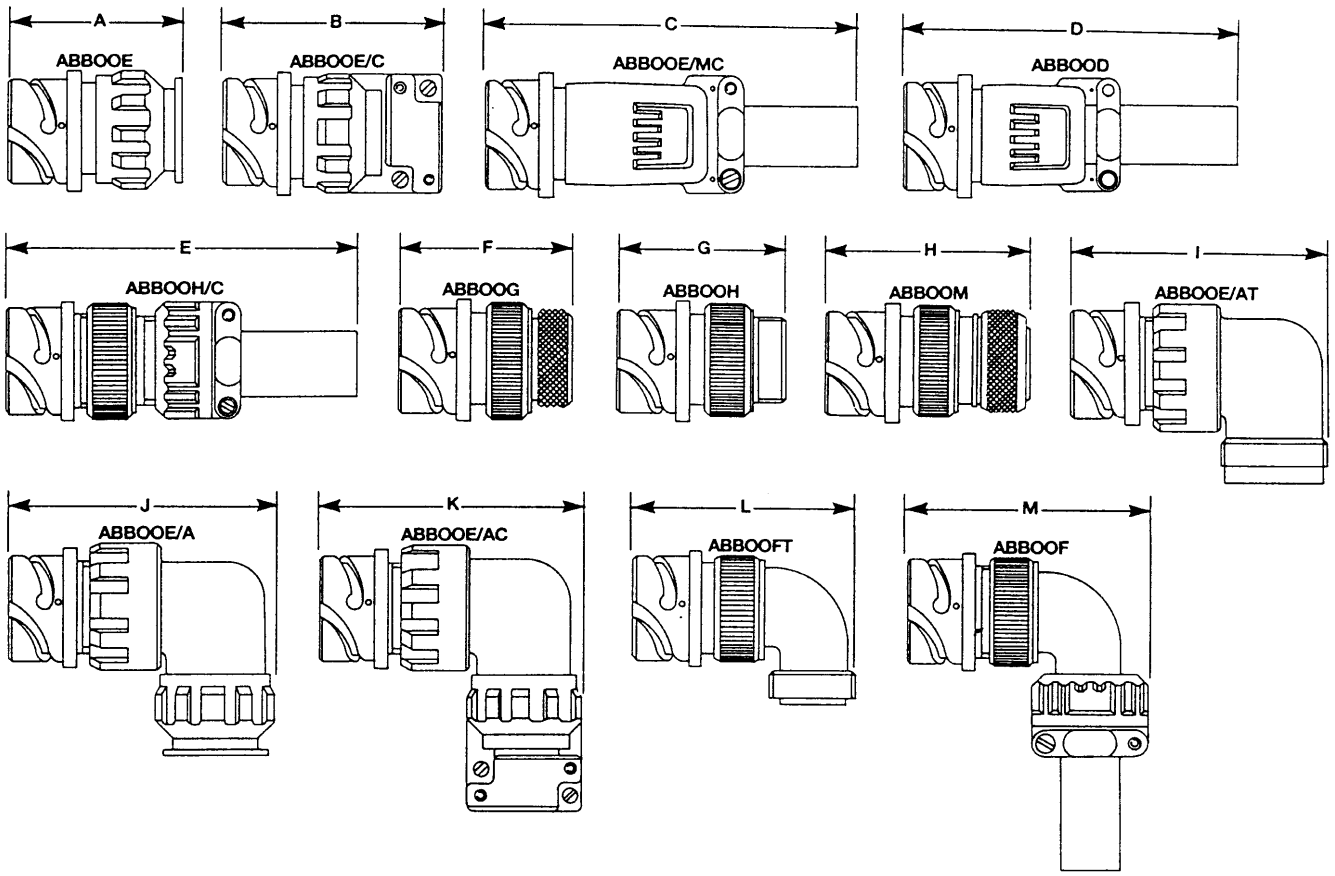


Metric Imperial

Shell size	B max	C max	Ød1 +0,2-0 +0.008-0	d2 Thread	E max	ØF Thread dia. class 2A	H max	P	Om min overlap mated	Ød3 H13	V	W	X
10 SL	17,6 0.693	25,7 1.012	3,2 0.126	M4	3,0 0.118	5/8" 24 UNEF	29,5 1.161	3,3 0.130	11,1 0.437	3,4 0.134	26,6 1.047	16,13 0.635	18,2 0.717
14 S	18,0 0.709	30,3 1.193	3,2 0.126	M4	3,4 0.134	3/4" 20 UNEF	29,5 1.161	3,3 0.130	11,1 0.437	3,4 0.134	31,6 1.244	19,3 0.760	23,0 0.909
16 S	18,0 0.709	32,8 1.291	3,2 0.126	M4	3,4 0.134	7/8" 20 UNEF	29,5 1.161	3,3 0.130	11,1 0.437	3,4 0.134	34,4 1.354	22,48 0.885	24,6 0.969
16	22,8 0.898	32,8 1.291	3,2 0.126	M4	3,4 0.134	7/8" 20 UNEF	42,0 1.654	3,3 0.130	15.85 0.624	3,4 0.134	34,4 1.354	22,48 0.885	24,6 0.969
18	23,6 0.929	35,3 1.390	3,2 0.126	M4	4,2 0.165	1" 20 UNEF	42,0 1.654	3,3 0.130	15.85 0.624	3,4 0.134	38,3 1.508	25,65 1.010	27,0 1.063
20	23,6 0.929	38,3 1.508	3,2 0.126	M4	4,2 0.165	1 1/8" 18 UNEF	42,0 1.654	3,3 0.130	15,85 0.624	3,4 0.134	41,7 1.642	28,83 1.135	29,4 1.157
22	23,6 0.929	41,3 1.626	3,2 0.126	M4	4,2 0.165	1 1/4" 18 UNEF	42,0 1.654	3,3 0.130	15,75 0.620	3,4 0.134	45,2 1.780	32,00 1.260	31,8 1.252
24	25,2 0.992	44,8 1.764	3,7 0.146	M4	4,2 0.165	1 3/8" 18 UNEF	42,0 1.654	3,3 0.130	15,75 0.620	3,9 0.154	48,7 1.917	35,18 1.385	34,9 1.374
28	25,2 0.992	51,1 2.012	3,7 0.146	M5	4,2 0.165	1 5/8" 18 UNEF	42,0 1.654	3,3 0.130	15,75 0.620	3,9 0.154	55,5 2.185	41,53 1.635	39,7 1.563
32	26,8 1.055	57,3 2.256	4,3 0.169	M5	4,2 0.165	1 7/8" 16 UN	42,0 1.654	3,3 0.130	15,75 0.620	4,5 0.177	62,4 2.457	47,88 1.885	44,5 1.752
36	26,8 1.055	63,8 2.512	4,3 0.169	M5	4,2 0.165	*2 1/16" 16 UNS	42,0 1.654	3,3 0.130	15,75 0.620	4,5 0.177	69,0 2.717	52,65 2.073	49,2 1.937

* NOTE: Thread is alternatively 2" - 18 UNS class 2A - See modification M1 Page 9.

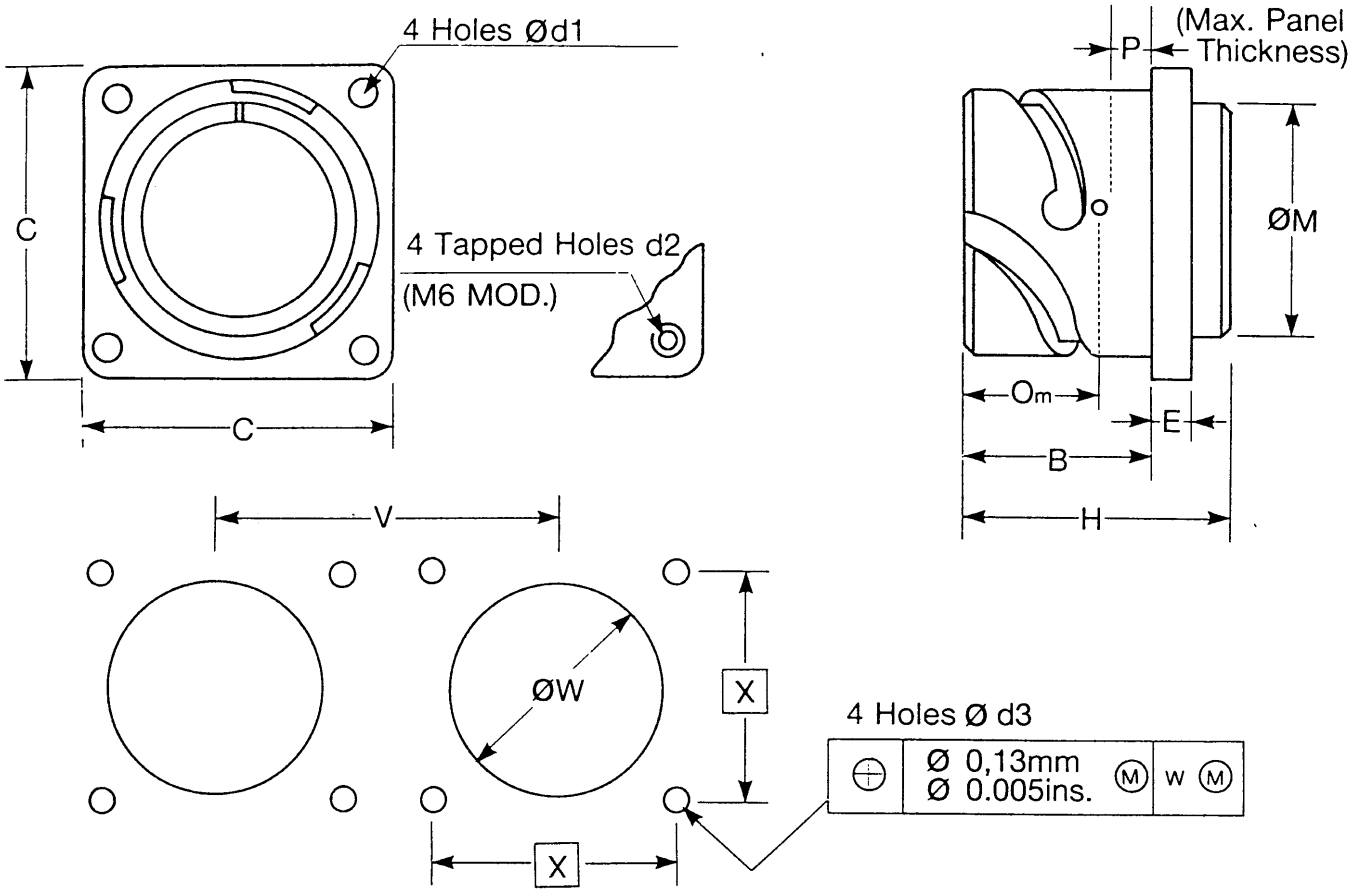
AB Style: ABBOOT with Accessories



Metric Imperial

Shell size	A max	B max	C max	D max	E max	F max	G max	H max	I max	J max	K max	L max	M max
10 SL	44,2 1.741	56,4 2.221	119,3 4.695	109,2 4.298	122,6 4.827	50,1 1.972	50,4 1.984	53,8 2.118	57,2 2.253	60,1 2.365	61,6 2.425	54,4 2.143	57,8 2.277
14 S	44,2 1.741	56,4 2.221	116,1 4.570	107,5 4.234	119,2 4.693	50,1 1.972	50,4 1.984	56,4 2.220	59,7 2.348	62,5 2.461	64,8 2.551	57,0 2.245	61,3 2.411
16 S	44,2 1.741	56,4 2.221	113,0 4.450	104,5 4.114	121,0 4.764	50,1 1.972	50,4 1.984	56,4 2.220	62,7 2.467	65,9 2.595	67,5 2.656	60,6 2.386	64,5 2.539
16	59,9 2.359	81,6 3.213	125,5 4.943	116,7 4.606	128,5 5.059	62,6 2.464	62,9 2.476	68,9 2.713	75,2 2.959	76,9 3.028	78,5 3.088	73,1 2.878	77,0 3.031
18	59,9 2.359	81,6 3.213	125,5 4.943	120,6 4.746	130,0 5.118	64,6 2.543	64,9 2.555	71,9 2.831	85,1 3.349	88,4 3.478	89,5 3.522	77,8 3.063	81,6 3.213
20	59,9 2.359	81,6 3.213	122,3 4.816	119,6 4.709	125,5 4.941	65,6 2.582	64,9 2.555	71,9 2.831	88,2 3.472	91,4 3.597	92,5 3.641	83,1 3.271	86,8 3.417
22	59,9 2.359	81,6 3.213	122,3 4.816	119,6 4.709	125,5 4.941	68,4 2.693	64,9 2.555	71,9 2.831	90,6 3.567	93,9 3.696	95,0 3.741	83,1 3.271	86,8 3.417
24	59,9 2.359	81,6 3.213	119,2 4.691	114,2 4.496	112,6 4.433	65,6 2.582	64,9 2.555	71,9 2.831	96,7 3.805	99,9 3.933	101,0 3.978	91,2 3.588	94,6 3.722
28	59,9 2.359	81,6 3.213	128,5 5.059	124,3 4.894	112,5 4.433	68,4 2.693	65,0 2.559	70,9 2.791	100,2 3.945	103,5 4.074	107,8 4.243	91,2 3.588	94,6 3.722
32	59,9 2.359	81,6 3.213	125,3 4.933	121,1 4.768	111,5 4.389	67,1 2.642	63,9 2.516	70,9 2.791	108,8 4.282	112,0 4.409	116,3 4.579	100,3 3.949	103,9 4.093
36	59,9 2.359	81,6 3.213	122,1 4.808	117,9 4.645	111,5 4.389	72,4 2.851	63,9 2.516	70,9 2.791	112,5 4.430	118,5 4.665	118,5 4.665	106,3 4.185	109,9 4.327

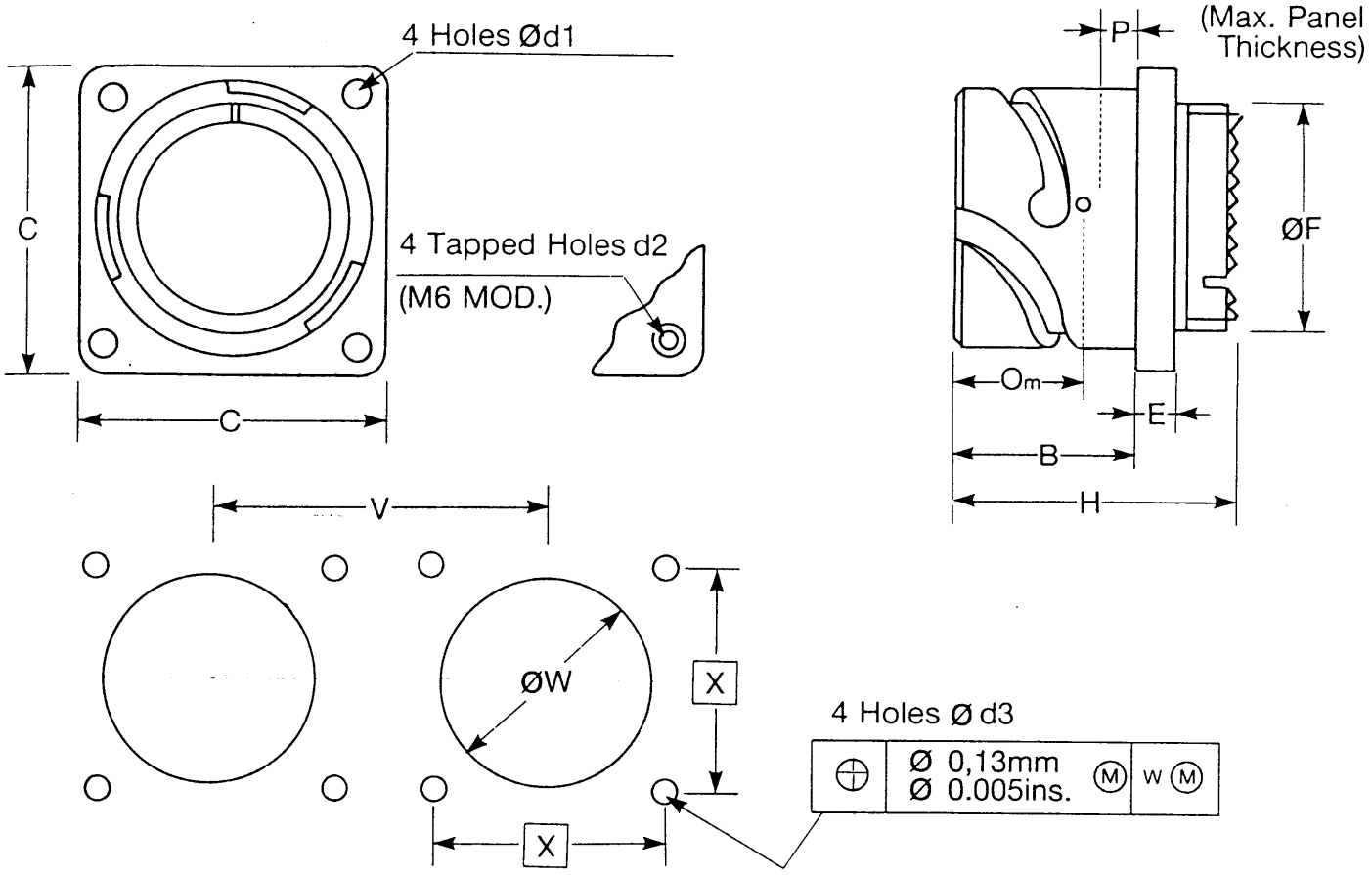
Square Flange Receptacle - Rear Mounting (No Acc. Thd.)
AB Style: ABB03A/ABB03A...M6. BS Style: C2758/C2759.



Metric Imperial

Shell size	B max	C max	Ød1 +0,2-0 +0.008-0	d2 Thread	E max	ØM max	H max	P	Om min overlap mated	Ød3 H13	V	W	X
10SL	18,6 0.732	25,7 1.012	3,2 0.126	M4	3,0 0.118	16,2 0.638	24,7 0.972	3,3 0.130	11.1 0.437	3,4 0.134	26,6 0.147	18,58 0.732	18,2 0.717
14S	18,6 0.732	30,3 1.193	3,2 0.126	M4	3,4 0.134	19,2 0.756	24,7 0.972	3,3 0.130	11,1 0.437	3,4 0.134	31,6 1.244	24,98 0.984	23,0 0.906
16S	18,6 0.732	32,8 1.291	3,2 0.126	M4	3,4 0.134	22,4 0.882	24,7 0.972	3,3 0.130	11.1 0.437	3,4 0.134	34,4 1.354	27,78 1.094	24,6 0.969
16	21,9 0.862	32,8 1.291	3,2 0.126	M4	3,4 0.134	22,4 0.882	33,8 1.331	3,3 0.130	15,85 0.624	3,4 0.134	34,4 1.354	27,78 1.094	24,6 0.969
18	23,45 0.923	35,3 1.390	3,2 0.126	M4	4,2 0.165	25,6 1.008	33,8 1.331	3,3 0.130	15.85 0.624	3,4 0.134	38,3 1.508	31,18 1.228	27,0 1.063
20	23,45 0.923	38,3 1.508	3,2 0.126	M4	4,2 0.165	29,0 1.142	33,8 1.331	3,3 0.130	15.85 0.624	3,4 0.134	41,7 1.642	34,58 1.361	29,4 1.157
22	23,45 0.923	41,3 1.626	3,2 0.126	M4	4,2 0.165	32,2 1.268	33,8 1.331	3,3 0.130	15.75 0.620	3,4 0.134	45,2 1.780	37,78 1.484	31,8 1.252
24	23,45 0.923	44,8 1.764	3,7 0.134	M4	4,2 0.165	35,3 1.390	33,8 1.331	3,3 0.130	15,75 0.620	3,9 0.154	48,7 1.917	41,28 1.625	34,9 1.374
28	24,45 0.963	51,1 2.012	3,7 0.134	M5	4,2 0.165	41,4 1.630	33,8 1.331	3,3 0.130	15,75 0.620	3,9 0.154	55,5 2.185	47,08 1.854	39,7 1.563
32	24,45 0.963	57,3 2.256	4,3 0.165	M5	4,2 0.165	47,8 1.882	33,8 1.331	3,3 0.130	15,75 0.620	4,5 0.177	62,4 2.457	53,78 2.117	44,5 1.752
36	24,45 0.963	63,8 2.512	4,3 0.165	M5	4,2 0.165	52,6 2.071	33,8 1.331	3,3 0.130	15.75 0.620	4,5 0.177	69,0 2.717	59,98 2.361	49,2 1.937

Square Flange Receptacle - Rear Mounting (with Acc. Thd.)
AB Style: ABB03T/ABB03T...M6.

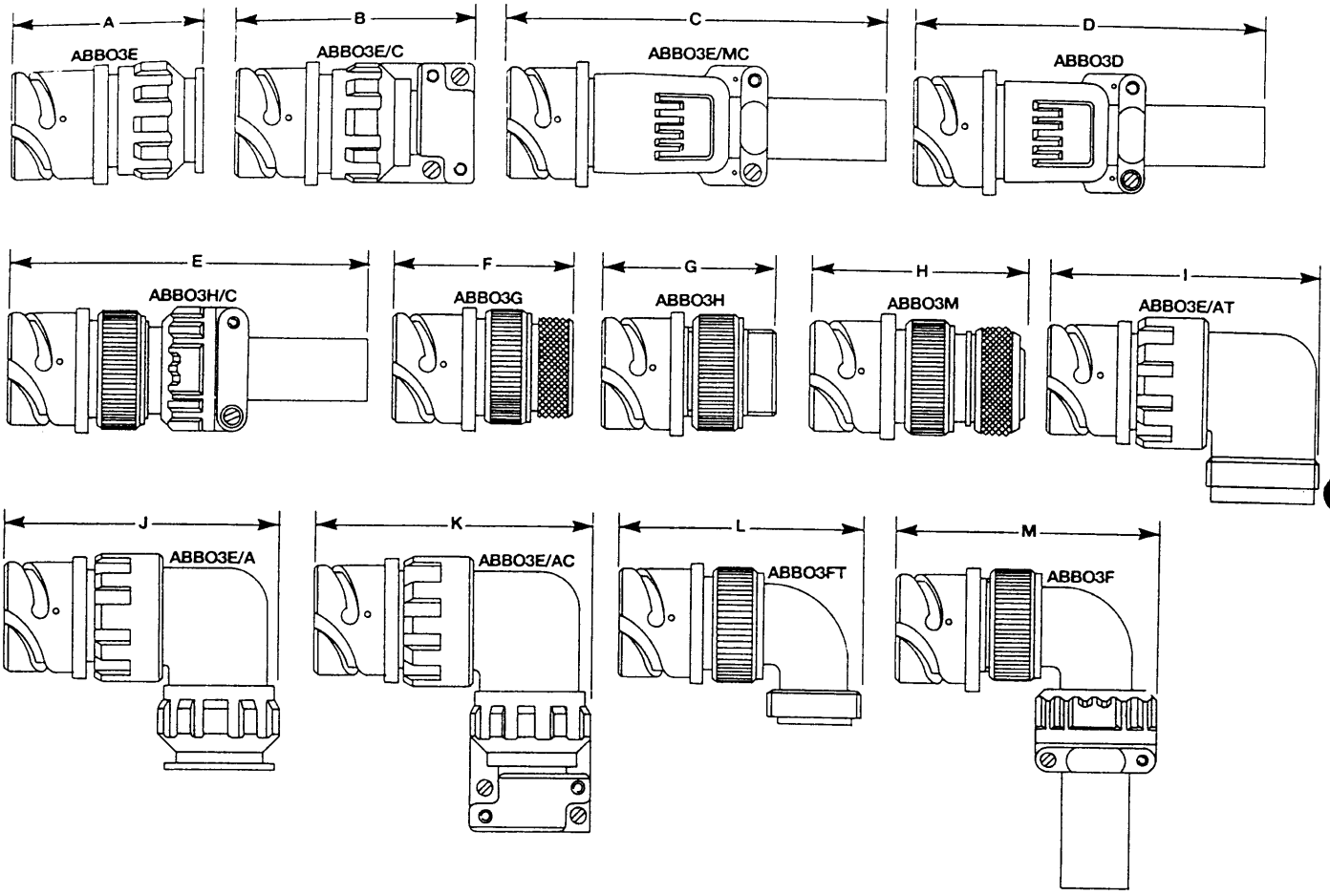


Metric Imperial

Shell size	B max	C max	Ød1 +0,2-0 +0.008-0	d2 Thread	E max	ØF Thread dia. class 2A	H max	P	Om min overlap mated	Ød3 H13	V	W	X
10 SL	18,6 0.732	25,7 1.012	3,2 0.126	M4	3,0 0.118	5/8" 24 UNEF	29,5 1.161	3,3 0.130	11,1 0.437	3,4 0.134	26,6 0.147	18,58 0.732	18,2 0:717
14 S	18,6 0.732	30,3 1.193	3,2 0.126	M4	3,4 0.134	3/4"20 UNEF	29,5 1.161	3,3 0.130	11,1 0.437	3,4 0.134	31,6 1.244	24,98 0.984	23,0 0.906
16 S	18,6 0.732	32,8 1.291	3,2 0.126	M4	3,4 0.134	7/8" 20 UNEF	29,5 1.161	3,3 0.130	11,1 0.437	3,4 0.134	34,4 1.354	27,78 1.094	24,6 0.969
16	21,9 0.862	32,8 1.291	3,2 0.126	M4	3,4 0.134	7/8" 20 UNEF	42,0 1.654	3,3 0.130	15,85 0.624	3,4 0.134	34,4 1.354	27,78 1.094	24,6 0.969
18	23,45 0.923	35,3 1.390	3,2 0.126	M4	4,2 0.165	1" 20 UNEF	42,0 1.654	3,3 0.130	15,85 0.624	3,4 0.134	38,3 1.508	31,18 1.228	27,0 1.063
20	23,45 0.923	38,3 1.508	3,2 0.126	M4	4,2 0.165	1 1/8" 18 UNEF	42,0 1.654	3,3 0.130	15,85 0.624	3,4 0.134	41,7 1.642	34,58 1.361	29,4 1.157
22	23,45 0.923	41,3 1.626	3,2 0.126	M4	4,2 0.165	1 1/4" 18 UNEF	42,0 1.654	3,3 0.130	15,75 0.620	3,4 0.134	45,2 1.780	37,78 1.484	31,8 1.252
24	23,45 0.923	44,8 1.764	3,7 0.134	M4	4,2 0.165	1 3/8" 18 UNEF	42,0 1.654	3,3 0.130	15,75 0.620	3,9 0.154	48,7 1.917	41,28 1.625	34,9 1.374
28	24,45 0.963	51,1 2.012	3,7 0.134	M5	4,2 0.165	1 5/8" 18 UNEF	42,0 1.654	3,3 0.130	15,75 0.620	3,9 0.154	55,5 2.185	47,08 1.854	39,7 1.563
32	24,45 0.963	57,3 2.256	4,3 0.165	M5	4,2 0.165	1 7/8" 16 UN	42,0 1.654	3,3 0.130	15,75 0.620	4,5 0.177	62,4 2.457	53,78 2.117	44,5 1.752
36	24,45 0.963	63,8 2.512	4,3 0.165	M5	4,2 0.165	*2 1/16" 16 UNS	42,0 1.654	3,3 0.130	15,75 0.620	4,5 0.177	69,0 2.717	59,98 2.361	49,2 1.937

* Note: Thread is alternatively 2" - 18 UNS class 2A - see modification M1 page 9.

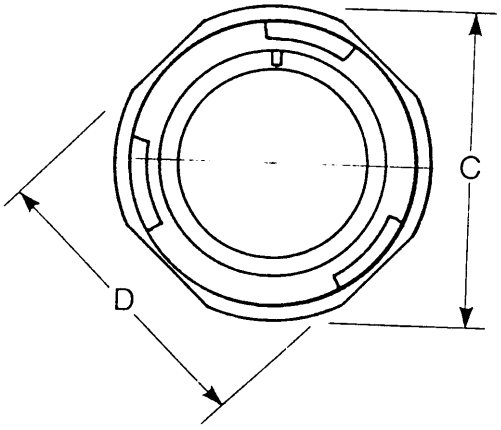
AB Style: ABB03F with Accessories

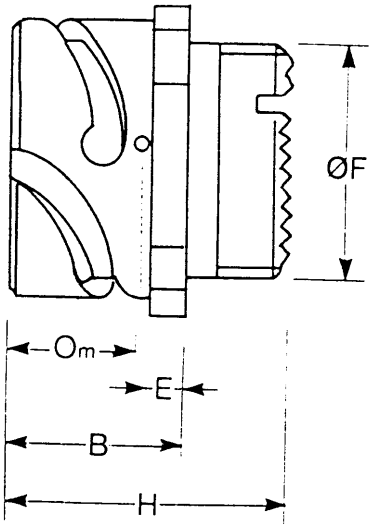


Metric Imperial

Shell size	A max	B max	C max	D max	E max	F max	G max	H max	I max	J max	K max	L max	M max
10 SL	44,2 1.741	56,4 2.221	119,3 4.695	109,2 4.298	122,6 4.827	50,1 1.972	50,4 1.984	53,8 2.118	57,2 2.253	60,1 2.365	61,6 2.425	54,4 2.143	57,8 2.277
14 S	44,2 1.741	56,4 2.221	116,1 4.570	107,5 4.234	119,2 4.693	50,1 1.972	50,4 1.984	56,4 2.220	59,7 2.348	62,5 2.461	64,8 2.551	57,0 2.245	61,3 2.411
16 S	44,2 1.741	56,4 2.221	113,0 4.450	104,5 4.114	121,0 4.764	50,1 1.972	50,4 1.984	56,4 2.220	62,7 2.467	65,9 2.595	67,5 2.656	60,6 2.386	64,5 2.539
16	59,9 2.359	81,6 3.213	125,5 4.943	116,7 4.606	128,5 5.059	62,6 2.464	62,9 2.476	68,9 2.713	75,2 2.959	76,9 3.028	78,5 3.088	73,1 2.878	77,0 3.031
18	59,9 2.359	81,6 3.213	125,5 4.943	120,6 4.746	130,0 5.118	64,6 2.543	64,9 2.555	71,9 2.831	85,1 3.349	88,4 3.478	89,5 3.522	77,8 3.063	81,6 3.213
20	59,9 2.359	81,6 3.213	122,3 4.816	119,6 4.709	125,5 4.941	65,6 2.582	64,9 2.555	71,9 2.831	88,2 3.472	91,4 3.597	92,5 3.641	83,1 3.271	86,8 3.417
22	59,9 2.359	81,6 3.213	122,3 4.816	119,6 4.709	125,5 4.941	68,4 2.693	64,9 2.555	71,9 2.831	90,6 3.567	93,9 3.696	95,0 3.741	83,1 3.271	86,8 3.417
24	59,9 2.359	81,6 3.213	119,2 4.691	114,2 4.496	112,6 4.433	65,6 2.582	64,9 2.555	71,9 2.831	96,7 3.805	99,9 3.933	101,0 3.978	91,2 3.588	94,6 3.722
28	59,9 2.359	81,6 3.213	128,5 5.059	124,3 4.894	112,6 4.433	68,4 2.693	65,0 2.559	70,9 2.791	100,2 3.945	103,5 4.074	107,8 4.243	91,2 3.588	94,6 3.722
32	59,9 2.359	81,6 3.213	125,3 4.933	121,1 4.768	111,5 4.389	67,1 2.642	63,9 2.516	70,9 2.791	108,8 4.282	112,0 4.409	116,3 4.579	100,3 3.949	103,9 4.093
36	59,9 2.359	81,6 3.213	122,1 4.808	117,9 4.645	111,5 4.389	72,4 2.851	63,9 2.516	70,9 2.791	112,5 4.430	118,5 4.665	118,5 4.665	106,3 4.185	109,9 4.327

Cable Mounted Receptacle -
AB Style: ABB01T. BS Style: C[illegible]09.



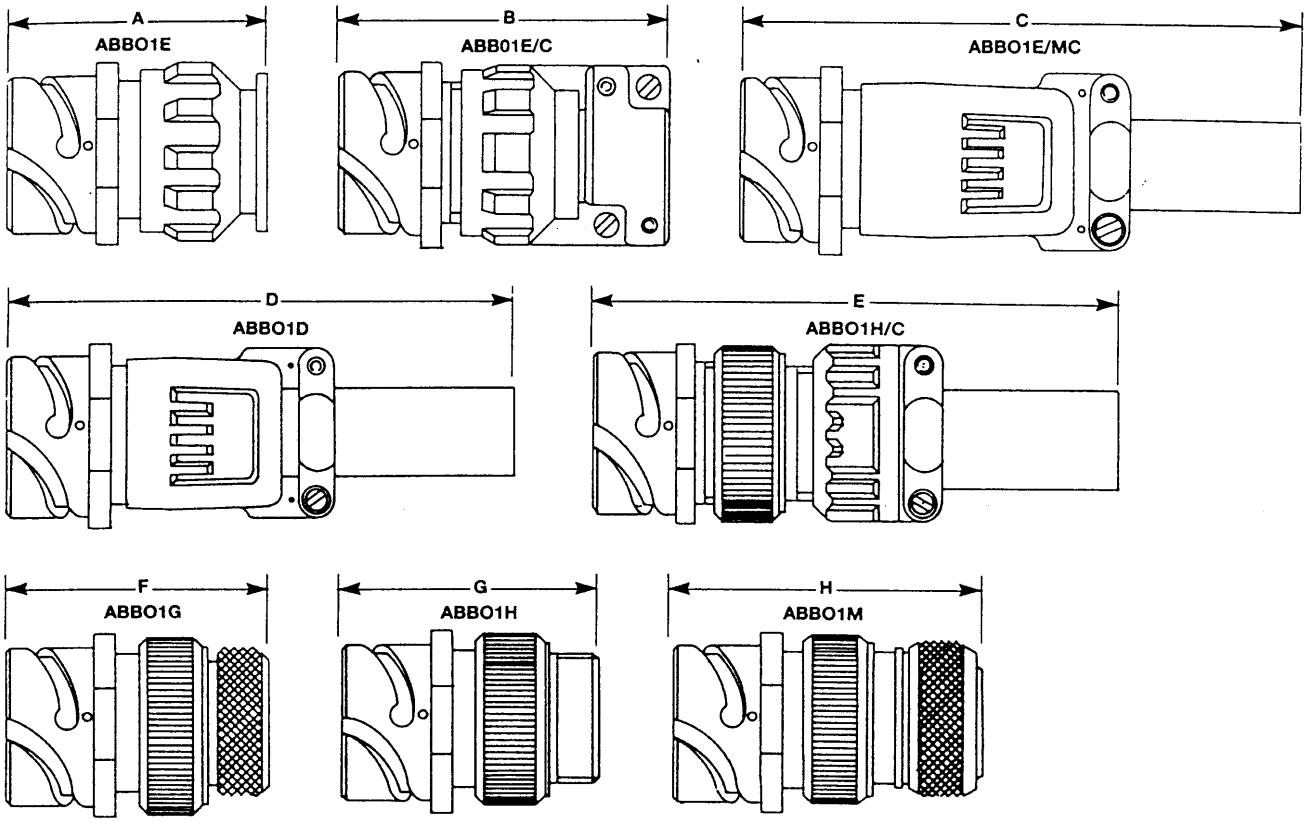


Metric Imperial

Shell size	B max	C max	D max	E max	ØF Thread dia.	H max	Ommin overlap mated
10 SL	17,6 0.693	25,2 0.9928	20,8 0.8188	3,0 0.118	5/8" x 24 UNEF	29.5 1.161	11,1 0.437
14 S	18,0 0.709	29,8 1.173	25,6 1.008	3,4 0.134	3/4" x 20 UNEF	29.5 1.161	11,1 0.437
16 S	18,0 0.709	323,3 1.272	28,8 1.134	3,4 0.134	7/8" x 20 UNEF	29.5 1.161	11,1 0.437
16	22,8 0.898	32,3 1.272	28,8 1.134	3,4 0.134	7/8" x 20 UNEF	42.0 1.654	15,85 0.624
18	23,6 0.929	34,8 1.370	31,9 1.256	4,2 0.165	1" x 0 UNEF	42.0 1.654	15,85 0.624
20	23,6 0.929	37,8 1.488	35,1 1.382	4,2 0.165	1 1/8" x 18 UNEF	42.0 1.654	15,85 0.624
22	23,6 0.929	41,1 1.618	38,3 1.508	4,2 0.165	1 1/4" x 18 UNEF	42.0 1.654	15,75 0.620
24	25,2 0.992	44,6 1.756	41,5 1.634	4,2 0.165	1 3/8" x 18 UNEF	42.0 1.654	15,75 0.620
28	25,2 0.992	50,9 2.004	47,8 1.882	4,2 0.165	1 5/8" x 18 UNEF	42.0 1.654	15,75 0.620
32	26,8 1.055	57,1 2.248	54,2 2.134	4,2 0.165	1 7/8" x 16 UN	42.0 1.654	15,75 0.620
36	26,8 1.055	63,8 2.512	60,8 2.394	4,2 0.165	*2 1/16" x 16 UNS	42.0 1.654	15,75 0.620

* Note: Thread is alternatively 2" - 18 UNS class 2A - see modification M1 page 9.

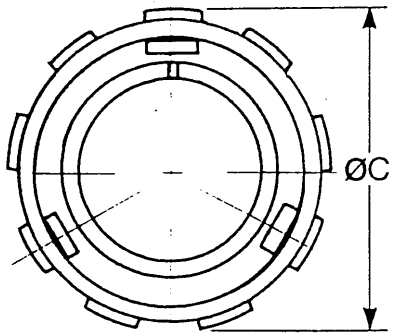
AB Style: ABB01T with Accessories

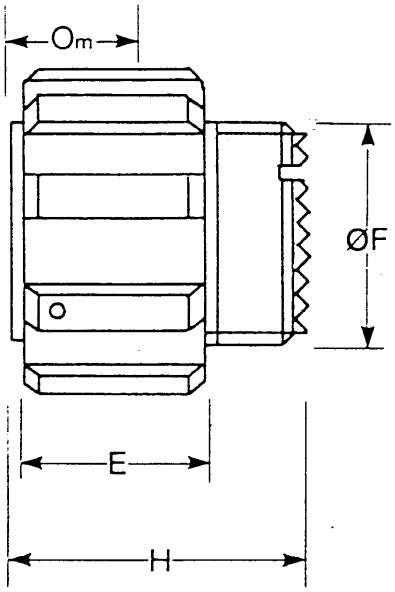


Metric Imperial

Shell size	A max	B max	C max	D max	E max	F max	G max	H max
10 SL	44,2 1.741	56,4 2.221	119,3 4.695	109,2 4.298	122,6 4.827	50,1 1.972	50,4 1.984	53 2.118
14 S	44,2 1.741	56,4 2.221	116,1 4.570	107,5 4.234	119,2 4.693	50,1 1.972	50,4 1.984	56 2.220
16 S	44,2 1.741	56,4 2.221	113,0 4.450	104,5 4.114	121,0 4.764	50,1 1.972	50,4 1.984	56 2.220
16	59,9 2.359	81,6 3.213	125,5 4.943	116,7 4.606	128,5 5.059	62,6 2.464	62,9 2.476	68 2.713
18	59,9 2.359	81,6 3.213	125,5 4.943	120,6 4.746	130,0 5.118	64,6 2.543	64,9 2.555	7 2.831
20	59,9 2.359	81,6 3.213	122,3 4.816	119,6 4.709	125,5 4.941	65,6 2.582	64,9 2.555	7 2.831
22	59,9 2.359	81,6 3.213	122,3 4.816	119,6 4.709	125,5 4.941	68,4 2.693	64,9 2.555	7 2.831
24	59,9 2.359	81,6 3.213	119,2 4.691	114,2 4.496	112,6 4.433	65,6 2.582	64,9 2.555	7 2.831
28	59,9 2.359	81,6 3.213	128,5 5.059	124,3 4.894	112 4.433	68,4 2.693	65,0 2.559	2.791
32	59,9 2.359	81,6 3.213	125,3 4.933	121,1 4.768	111 4.389	67,1 2.642	63,9 2.516	2.791
36	59,9 2.359	81,6 3.213	122,1 4.808	117,9 4.645	111,5 4.389	72,4 2.851	63,9 2.516	2.791

Plug - Arctic Grip Coupling Nut.
AB Style: ABB06T/ABBNS06T. BS Style: C2502/C2501.





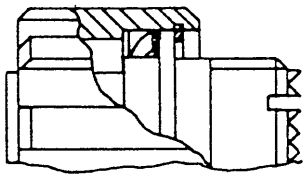


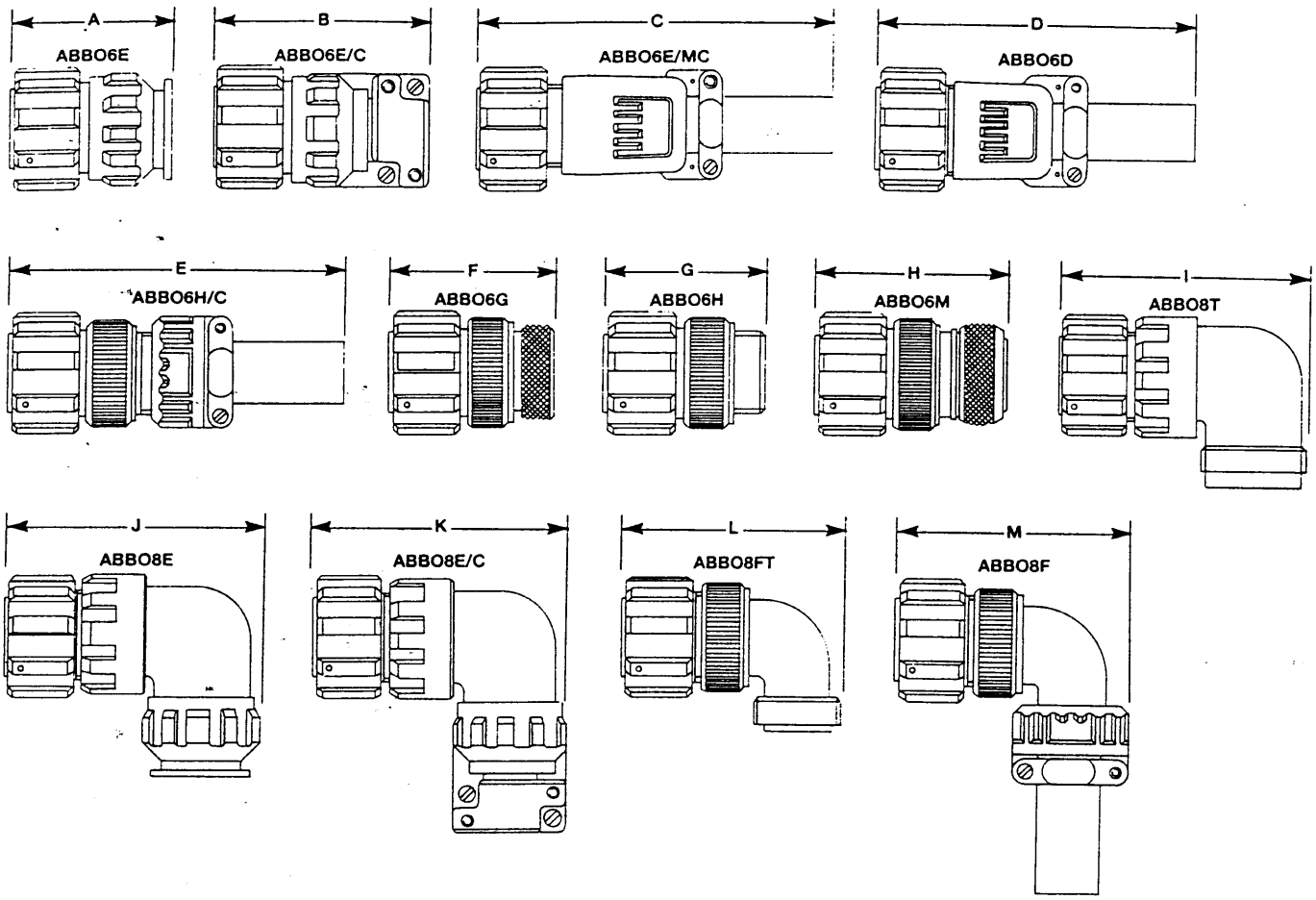
ABB06T-Standard Product with RFI Grounding System.

Metric Imperial

Shell size	ØC max	E max	ØF thread form class 2A	H max	Om min overlap mated
10 SL	24,2 0.953	17,5 0.689	5/8" x 24 UNEF	29,95 1.179	11,1 0.437
14 S	30,6 1.205	17,5 0.689	3/4" x 20 UNEF	29,95 1.179	11,1 0.437
16 S	33,4 1.315	17,5 0.689	7/8" x 20 UNEF	29,95 1.179	11,1 0.437
16	Arctic Grip version not available. See Page 21 for shell size 16 plugs.				
18	37,3 1.469	24,0 0.945	1" x 20 UNEF	42,00 1.654	15,85 0.624
20	40,7 1.602	24,0 0.945	1 1/8" x 18 UNEF	42,00 1.654	15,85 0.624
22	44,2 1.740	24,0 0.945	1 1/4" x 18 UNEF	42,00 1.654	15,85 0.624
24	47,7 1.878	24,0 0.945	1 3/8" x 18 UNEF	42,00 1.654	15,75 0.620
28	54,5 2.146	24,0 0.945	1 5/8" x 18 UNEF	42,00 1.654	15,75 0.620
32	61,4 2.417	27,0 1.063	1 7/8" x 16 UN	42,00 1.654	15,75 0.620
36	68,0 2.677	27,0 1.063	*2 1/16" x 16 UNS	42,00 1.654	15,75 0.620

* Note: Thread is alternatively 2" - 18 UNS class 2A - see modification M1 page 9.

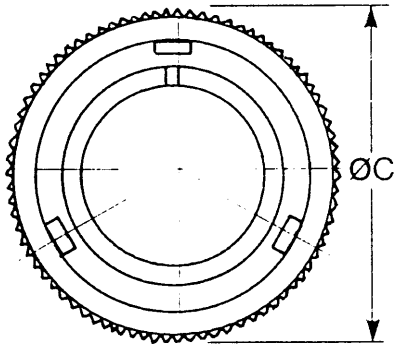
AB Style: ABB06T with Accessories

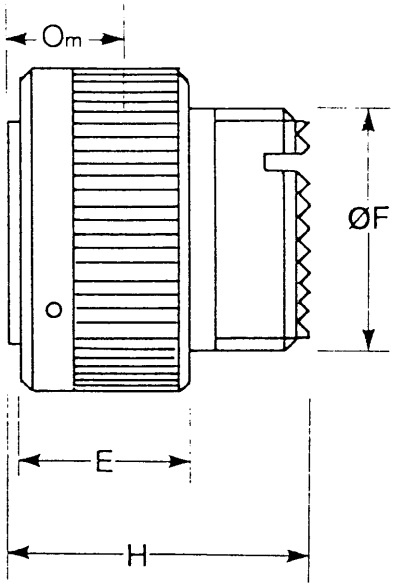


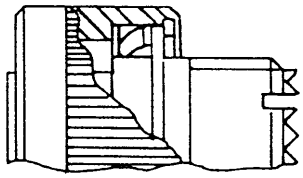
Metric Imperial

Shell size	A max	B max	C max	D max	E max	F max	G max	H max	I max	J max	K max	L max	M max
10 SL	44,7 1.760	56,9 2.240	119,8 4.716	109,7 4.319	123,0 4.842	50,6 1.992	50,9 2.004	54,3 2.138	57,7 2.272	60,6 2.385	62,1 2.444	54,9 2.161	58,3 2.295
14 S	44,7 1.760	56,9 2.240	116,6 4.591	107,9 4.248	119,7 4.713	50,6 1.992	50,9 2.004	56,9 2.240	60,2 2.370	62,9 2.476	65,3 2.571	57,5 2.263	61,8 2.433
16 S	44,7 1.760	56,9 2.240	113,5 4.468	104,9 4.129	121,5 4.783	50,6 1.992	50,9 2.004	56,9 2.240	63,2 2.488	66,4 2.614	67,9 2.673	61,1 2.406	64,9 2.555
18	59,9 2.359	81,6 3.213	125,5 4.943	120,6 4.746	130,0 5.118	64,6 2.543	64,9 2.555	71,9 2.831	85,1 3.349	88,4 3.478	89,5 3.522	77,8 3.063	81,6 3.213
20	59,9 2.359	81,6 3.213	122,3 4.816	119,6 4.709	125,5 4.941	65,6 2.582	64,9 2.555	71,9 2.831	88,2 3.472	91,4 3.597	92,5 3.641	83,1 3.271	86,8 3.417
22	59,9 2.359	81,6 3.213	122,3 4.816	119,6 4.709	125,5 4.941	68,4 2.693	64,9 2.555	71,9 2.831	90,6 3.567	93,9 3.696	95,0 3.741	83,1 3.271	86,8 3.417
24	59,9 2.359	81,6 3.213	119,2 4.691	114,2 4.496	112,6 4.433	65,6 2.582	64,9 2.555	71,9 2.831	96,7 3.805	99,9 3.933	101,0 3.978	91,2 3.588	94,6 3.722
28	59,9 2.359	81,6 3.213	128,5 5.059	124,3 4.894	112,6 4.433	68,4 2.693	65,0 2.559	70,9 2.791	100,2 3.945	103,5 4.074	107,8 4.243	91,2 3.588	94,6 3.722
32	59,9 2.359	81,6 3.213	125,3 4.933	121,1 4.768	111,5 4.389	67,1 2.642	63,9 2.516	70,9 2.791	108,8 4.282	112,0 4.409	116,3 4.579	100,3 3.949	103,9 4.093
36	59,9 2.359	81,6 3.213	122,1 4.808	117,9 4.645	111,5 4.389	72,4 2.851	63,9 2.516	70,9 2.791	112,5 4.430	118,5 4.665	118,5 4.665	106,3 4.185	109,9 4.327

Plug - Fine Knurl Coupling Nut -
AB Style: ABBSE06T ABBSE06T, BS Style: D38999/26F19.





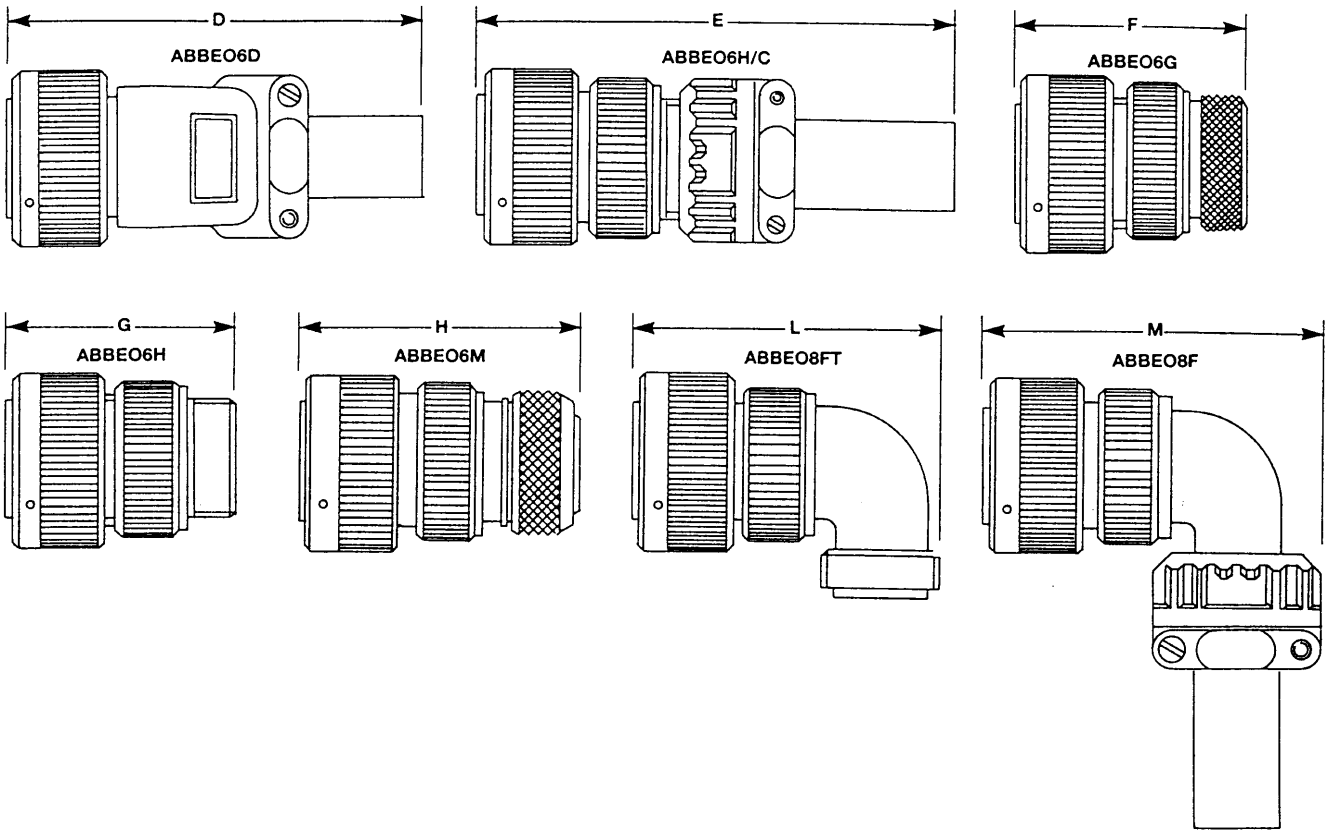


ABBSEO6T with RFI Grounding System

Metric Imperial

Shell size	ØC max	E max	ØF Thread form class 2A	H max	Om min overlap mated
10 SL	22,8 0.898	17,5 0.689	5/8" x 24 UNEF	29,95 1.179	11,1 0.437
14 S	29,2 1.150	17,5 0.689	3/4" x 20 UNEF	29,95 1.179	11,1 0.437
16 S	32,4 1.260	17,5 0.689	7/8" x 20 UNEF	29,95 1.179	11,1 0.437
16	32,4 1.260	24,0 0.945	7/8" x 20 UNEF	42,00 1.654	15,85 0.624
18	36,5 1.437	24,0 0.945	1" x 20 UNEF	42,00 1.654	15,85 0.624
20	39,9 1.571	24,0 0.945	1 1/8" x 18 UNEF	42,00 1.654	15,85 0.624
22	43,1 1.697	24,0 0.945	1 1/4" x 18 UNEF	42,00 1.654	15,85 0.624
24	46,6 1.835	24,0 0.945	1 3/8" x 18 UNEF	42,00 1.654	15,75 0.620
28	53,4 2.102	24,0 0.945	1 5/8" x 18 UNEF	42,00 1.654	15,75 0.620
32	60,1 2.366	27,0 1.063	1 7/8" x 16 UN	42,00 1.654	15,75 0.620
36	66,3 2.610	27,0 1.063	2 1/16" x 16 UNS	42,00 1.654	15,75 0.620

AB Style: ABBE06T with Accessories



Metric Imperial

Shell size	D max	E max	F max	G max	H max	L max	M max
10 SL	109,7 4.319	123,0 4.842	50,6 1.992	50,9 2.004	54,3 2.138	54,9 2.161	58,3 2.295
14 S	107,9 4.248	119,7 4.713	50,6 1.992	50,9 2.004	56,9 2.240	57,5 2.263	61,8 2.433
16 S	104,9 4.129	121,5 4.783	50,6 1.992	50,9 2.004	56,9 2.240	61,1 2.406	64,9 2.555
16	116,7 4.606	128,5 5.059	62,6 2.464	62,9 2.476	68,9 2.713	73,1 2.878	77,0 3.031
18	120,6 4.746	130,0 5.118	64,6 2.543	64,9 2.555	71,9 2.831	77,8 3.063	81,6 3.213
20	119,6 4.709	125,5 4.941	65,6 2.582	64,9 2.555	71,9 2.831	83,1 3.271	86,8 3.417
22	119,6 4.709	125,5 4.941	68,4 2.693	64,9 2.555	71,9 2.831	83,1 3.271	86,8 3.417
24	114,2 4.496	112,6 4.433	65,6 2.582	64,9 2.555	71,9 2.831	91,2 3.588	94,6 3.722
28	124,3 4.894	112,6 4.433	68,4 2.693	65,0 2.559	70,9 2.791	91,2 3.588	94,6 3.722
32	121,1 4.768	111,5 4.389	67,1 2.642	63,9 2.516	70,9 2.791	100,3 3.949	103,9 4.093
36	117,9 4.645	111,5 4.389	72,4 2.851	63,9 2.516	70,9 2.791	106,3 4.185	109,9 4.327

Protective Caps - AB Styles: ABB- -XPCA/ABBE- -XPCA K ABB- -EPCA/K. BS Styles: A2400/2401

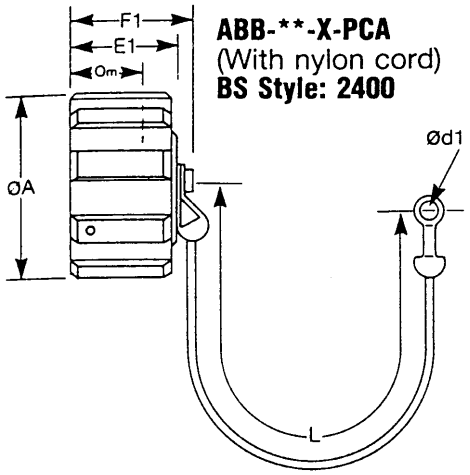
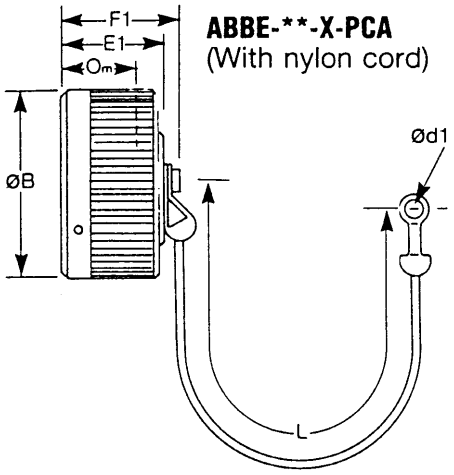
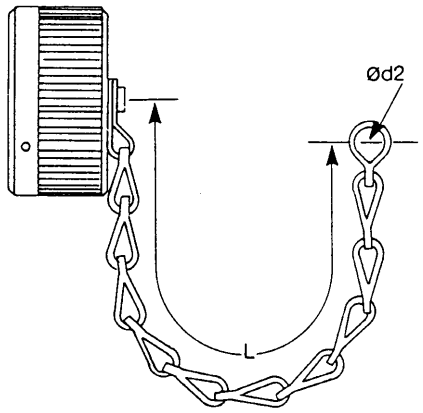


ABB--X-PCA**
(With nylon cord)
BS Style: 2400



ABBE--X-PCA**
(With nylon cord)



ABBE--X-PCAK**
(With sash chain)

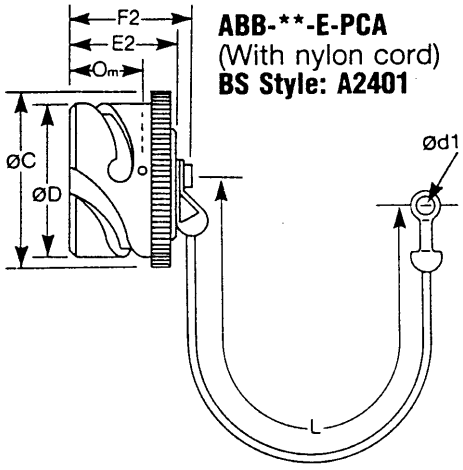


ABB--E-PCA**
(With nylon cord)
BS Style: A2401

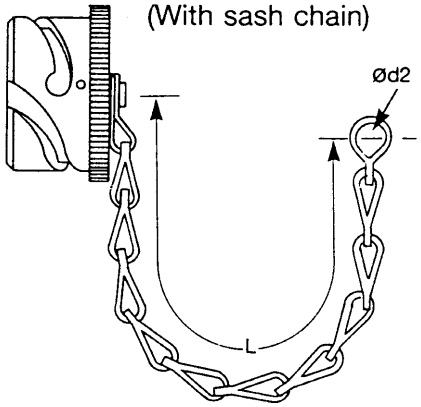


ABB--E-PCAK**
(With sash chain)

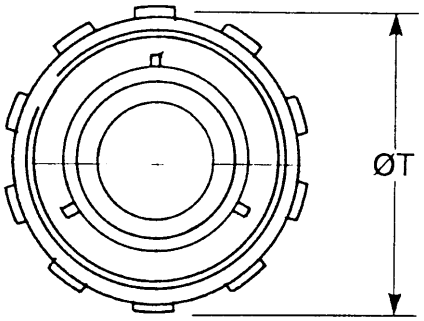
Metric Imperial

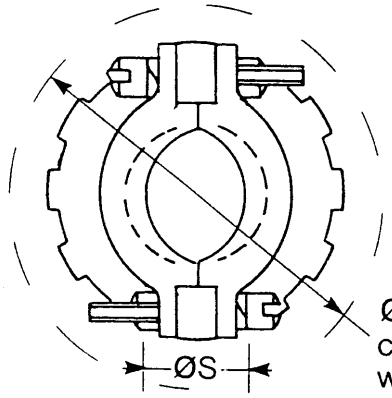
Shell size **	ØA max	ØB max	ØC max	ØD max	E1 max	E2 max	F1 max	F2 max	L see note	Ød1 max	Ød2 +0,5-0 +0.02-0	Om min overlap mated
10 SL	24,2 0.953	22,8 0.898	26,1 1.028	18,2 0.717	17,5 0.689	21,6 0.850	24,6 0.969	28,4 1.118	100,0 4.000	4,85 0.191	4,3 0.169	11,1 0.437
14 S	30,6 1.205	29,2 1.150	32,5 1.280	24,6 0.969	17,5 0.689	21,6 0.850	24.6 0.969	28,4 1.118	100,0 4.000	4,85 0.191	4,3 0.169	11,1 0.437
16 S	33,4 1.315	32,4 1.260	35,3 1.390	27,4 1.079	17,5 0.689	21,6 0.850	24,6 0.969	28,4 1.118	100,0 4.000	4,85 0.191	4,3 0.169	11,1 0.437
16	33,4 1.315	32,4 1.260	35,3 1.390	27,4 1.079	24,0 0.945	27,3 1.075	24,6 0.969	28,4 1.118	100,0 4.000	4,85 0.191	4,3 0.169	15,85 0.624
18	37,3 1.469	36,5 1.437	38,7 1.524	30,8 1.213	24,0 0.945	27,3 1.075	29.8 1.173	33,9 1.335	150,0 6.000	4,85 0.191	4,3 0.169	15,85 0.624
20	40,7 1.602	39,9 1.571	42,1 1.658	34,2 1.346	24,0 0.945	27,3 1.075	29,8 1.173	33,9 1.335	150,0 6.000	4,85 0.191	4,3 0.169	15,85 0.624
22	44,2 1.740	43,1 1.697	45,3 1.784	37,4 1.472	24,0 0.945	27,3 1.075	29,8 1.173	33,9 1.335	150,0 6.000	4,85 0.191	4,3 0.169	15,75 0.620
24	47,7 1.878	46,6 1.835	48,8 1.921	40,9 1.610	24,0 0.945	27,3 1.075	29.8 1.173	33,9 1.335	150,0 6.000	4,85 0.191	4,3 0.169	15,75 0.620
28	54,5 2.146	53,4 2.102	54,6 2.150	46,7 1.838	24,0 0.945	27,3 1.075	29,8 1.173	33,9 1.335	150,0 6.000	4,85 0.191	4,3 0.169	15,75 0.620
32	61,4 2.417	60,1 2.366	61,3 2.413	53,4 2.102	27,0 1.063	27,3 1.075	29,8 1.173	33,9 1.335	150,0 6.000	4,85 0.191	5,5 0.217	15,75 0.620
36	68,0 2.677	66,3 2.610	67,5 2.658	59,6 2.346	27,0 1.063	27,3 1.075	29,8 1.173	33,9 1.335	150,0 6.000	4,85 0.191	5,5 0.217	15,75 0.620

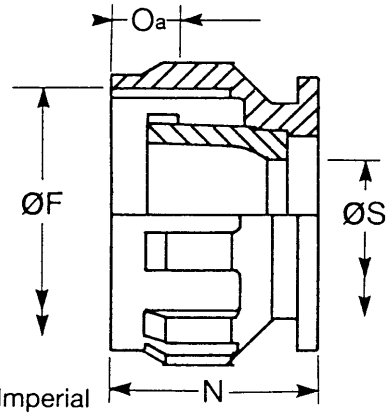
Note: For alternative length consult factory

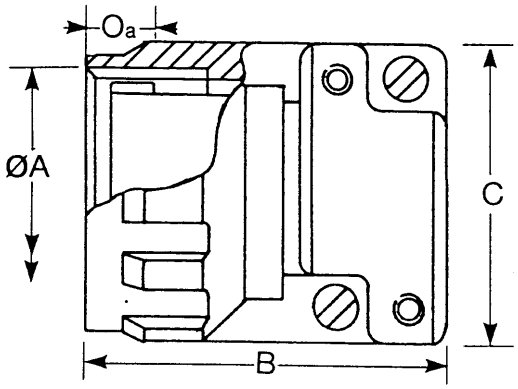
Grommet Nut -
Accessory Type 'E'
AB Style: SB-**-**-A. BS Style: A2344

Cable Clamp Assembly -
Accessory Type E C (5MS Locking)
AB Style: SB-**-**-CCA. BS Style: A2345









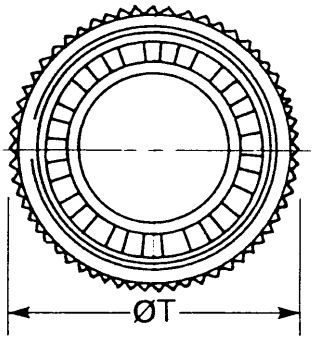
How to order: **SB - ** - ** - A**
Shell size
Contact arrangement
Typical Example: **SB - 10SL - 3 - A**
(Includes grommet and follower)

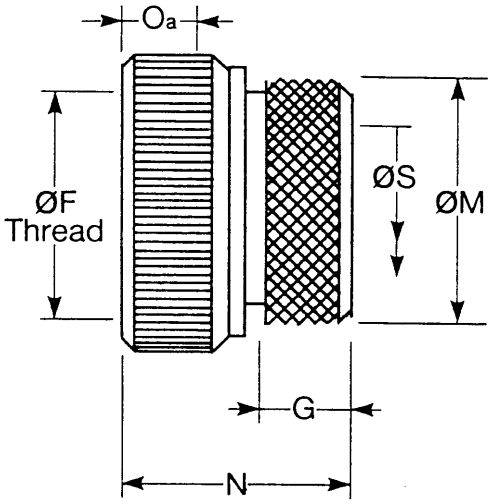
How to order: **SB - ** - ** - CCA**
Shell size
Contact arrangement
Typical Example: **SB - 10SL - 3 - CCA**
(Includes grommet and follower)

Shell size	ØT max	ØF Thread class 2B	N max	ØS min	Oa min overlap accessory
10 SL	21,6 0.850	5/8" x 24 UNEF	20,83 0.820	7,62 0.300	6,1 0.240
14 S	24,8 0.976	3/4" x 20 UNEF	20,83 0.820	10,21 0.402	6,1 0.240
16 S	28,7 1.130	7/8" x 20 UNEF	20,83 0.820	12,85 0.506	6,1 0.240
16	28,7 1.130	7/8" x 20 UNEF	25,53 1.005	12,85 0.506	7,6 0.300
18	31,9 1.256	1" x 20 UNEF	25,53 1.005	14,99 0.590	7,6 0.300
20	34,9 1.375	1 1/8" x 18 UNEF	25,53 1.005	17,93 0.706	7,6 0.300
22	38,2 1.504	1 1/4" x 18 UNEF	25,53 1.005	21,46 0.845	7,6 0.300
24	41,4 1.630	1 3/8" x 18 UNEF	25,53 1.005	24,77 0.975	7,6 0.300
28	47,8 1.882	1 5/8" x 18 UNEF	25,53 1.005	30,23 1.190	7,6 0.300
32	54,1 2.130	1 7/8" x 16 UN	25,53 1.005	36,32 1.430	7,6 0.300
36	58,7 2.311	2" x 18 UNS	25,53 1.005	40,51 1.595	7,6 0.300

Shell size	ØA Thread class 2B	B max	C max	ØS min	ØS max	ØT max	Oa min overlap accessory
10 SL	5/8" x 24 UNEF	33,02 1.300	21,47 0.845	5,08 0.200	7,92 0.312	24,61 0.969	6,1 0.240
14 S	3/4" x 20 UNEF	33,02 1.300	24,64 0.970	7,92 0.312	11,10 0.437	29,36 1.156	6,1 0.240
16 S	7/8" x 20 UNEF	33,02 1.300	28,71 1.130	9,14 0.360	14,27 0.562	31,75 1.250	6,1 0.240
16	7/8" x 20 UNEF	45,72 1.800	28,71 1.130	9,14 0.360	14,27 0.562	31,75 1.250	7,6 0.300
18	1" x 20 UNEF	45,72 1.800	31,88 1.255	10,72 0.422	15,87 0.625	34,14 1.344	7,6 0.300
20	1 1/8" x 20 UNEF	45,72 1.800	35,06 1.380	13,48 0.531	20,62 0.812	37,13 1.469	7,6 0.300
22	1 1/4" x UNEF	45,72 1.800	38,23 1.505	13,48 0.531	20,62 0.812	40,49 1.549	7,6 0.300
24	1 3/8" x 18 UNEF	45,72 1.800	41,41 1.630	15,08 0.594	23,80 0.937	43,66 1.719	7,6 0.300
28	1 5/8" x 18 UNEF	45,72 1.800	47,76 1.880	15,08 0.594	23,80 0.937	50,01 1.969	7,6 0.300
32	1 7/8" x 16 UN	45,72 1.800	54,11 2.130	20,06 0.790	31,75 1.250	56,36 2.219	7,6 0.300
36	2" x 18 UNS	45,72 1.800	58,75 2.313	20,06 0.790	34,92 1.375	62,71 2.469	7,6 0.300

Heatshrink Adaptor - Accessory Type G
AB Style: ABB-**-**-HSA. BS Style: A2525



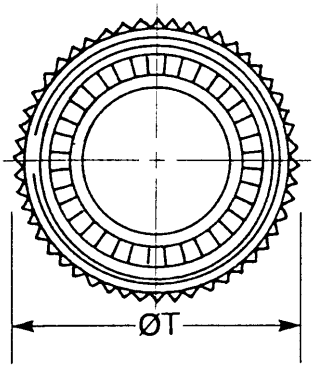


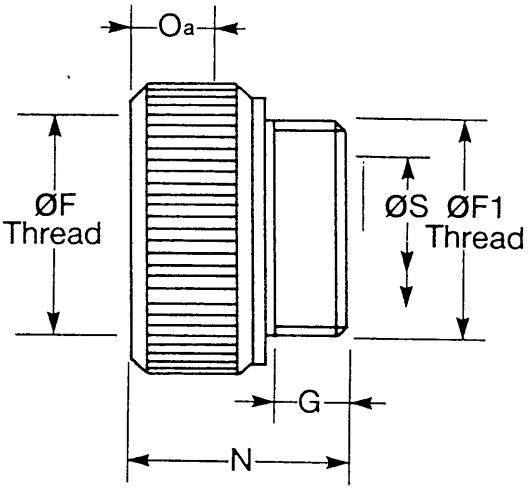
How to order: **ABB - ** - ** - HSA**
Shell size
Contact arrangement
Typical Example: **ABB - 10SL - 3 - HSA**
(Includes grommet)

Metric Imperial

Shell size	ØF Thread dia. class 2B	ØM max	N max	G max	ØS min	ØT max	Oa min overlap accessories
10SL	5/8" x 24 UNEF	15,7 0.618	27,6 1.087	8,2 0.323	7,7 0.303	22,0 0.87	7,0 0.276
14S	3/4" x 20 UNEF	19,3 0.760	27,6 1.087	8,2 0.323	10,6 0.417	25,0 0.99	7,0 0.276
16S	7/8" x 20 UNEF	24,1 0.949	27,6 1.087	8,2 0.323	13,5 0.532	28,0 1.11	7,0 0.276
16	7/8" x 20 UNEF	24,1 0.949	27,6 1.087	8,0 0.315	13,5 0.532	28,0 1.11	7,0 0.276
18	1" x 20 UNEF	24,1 0.949	29,6 1.165	8,0 0.315	14,6 0.575	31,0 1.22	7,0 0.276
20	1 1/8" x 18 UNEF	29,8 1.173	30,6 1.205	9,2 0.362	18,7 0.736	35,0 1.38	7,0 0.276
22	1 1/4" x 18 UNEF	29,8 1.173	33,4 1.315	9,2 0.362	20,8 0.819	38,0 1.50	7,0 0.276
24	1 3/8" x 18 UNEF	38,0 1.496	30,6 1.205	9,2 0.362	24,6 0.969	41,0 1.62	7,0 0.276
28	1 5/8" x 18 UNEF	38,0 1.496	33,4 1.315	9,2 0.362	27,0 1.063	48,0 1.89	7,0 0.276
32	1 7/8" x 16 UN	48,0 1.890	32,1 1.264	11,7 0.461	33,3 1.311	54,0 2.13	7,0 0.276
36	2 1/16" x 16 UNS	48.0 1.890	37,4 1.472	11,7 0.461	38,5 1.516	61,0 2.40	7,0 0.276

Armoured Cable Adaptor - Accessory Type H
AB Style: ABB-**-**-ACA. BS Style: A2524



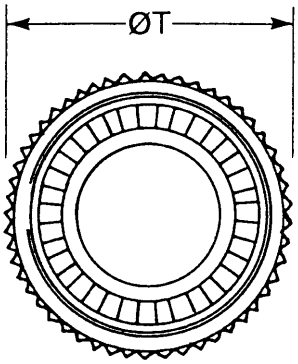


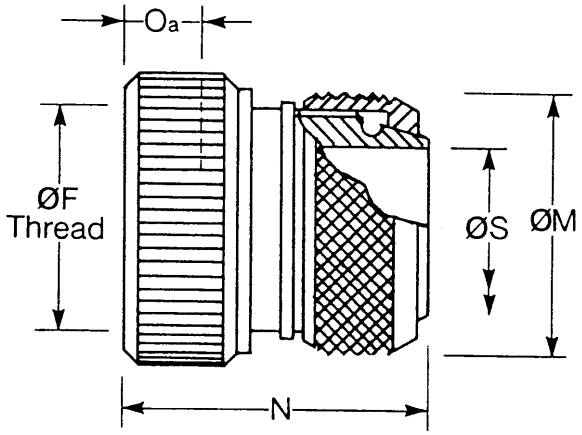
How to order: **ABB - ** - ** - ACA**
Shell size
Contact arrangement
Typical Example: **ABB - 10SL - 3 - ACA**
(Includes grommet)

Metric Imperial

Shell size	ØF Thread dia. class 2B	ØF1 min class d2A	G max	N max	ØS min	ØT max	Oa min overlap accessories
10 SL	5/8" x 24 UNEF	5/8" x 24 UNEF	9,5 0.374	27,9 1.098	8,2 0.323	22,0 0.87	7,0 0.276
14 S	3/4" x 20 UNEF	3/4" x 20 UNEF	9,5 0.374	27,9 1.098	11,1 0.323	25,0 0.87	7,0 0.276
16 S	7/8" x 20 UNEF	7/8" x 20 UNEF	9,5 0.374	27,9 1.098	14,3 0.563	28,0 1.11	7,0 0.276
16	7/8" x 20 UNEF	7/8" x 20 UNEF	9,5 0.374	27,9 1.098	14,3 0.563	28,0 1.11	7,0 0.276
18	1" x 20 UNEF	1" x 20 UNEF	9,5 0.374	29,9 1.177	16,7 0.657	31,0 1.22	7,0 0.276
20	1 1/8" x 18 UNEF	1 3/8" x 18 NEF	9,5 0.374	29,9 1.177	19,8 0.780	35,0 1.38	7,0 0.276
22	1 1/4" x 18 UNEF	1 1/4" x 18 NEF	9,5 0.374	29,9 1.177	25,4 0.780	41,0 1.50	7,0 0.276
24	1 3/8" x 18 UNEF	1 7/8" x 18 NEF	9,5 0.374	29,9 1.177	25,4 1.000	41,0 1.62	7,0 0.276
28	1 5/8" x 18 UNEF	1 7/8" x 18 NEF	9,5 0.374	30,0 1.181	27,0 1.063	48,0 1.89	7,0 0.276
32	1 7/8" x 16 UN	1 3/4" x 18 NS	11,0 0.433	28,9 1.136	32,5 1.280	54,0 2.13	7,0 0.276
36	2 1/16" x 16 UNS	2" x 18 NS	11,8 0.464	28,9 1.136	35,7 1.406	61,0 2.40	7,0 0.276

Screened Cable Adaptor - Accessory Type M
AB Style: ABB-**-**-SCA. BS Style: A2526



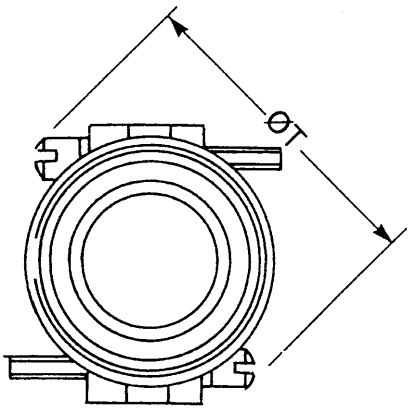


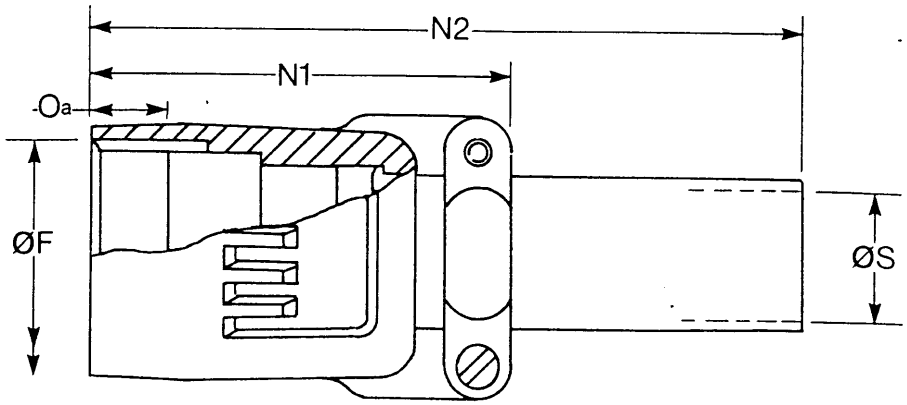
How to order: **ABB - ** - ** - SCA**
Shell size
Contact arrangement
Typical Example: **ABB - 10SL - 3 - SCA**
(Includes grommet)

Metric Imperial

Shell size	ØF Thread dia. class 2B	ØM max	N max	ØS min	ØT max	Oa min overlap accessories
10SL	5/8" x 24 UNEF	19,0 0.748	31,3 0.812	8,6 0.339	22,0 0.866	7,0 0.276
14S	3/4" x 20 UNEF	22,5 0.886	33,9 1.339	10,6 0.417	25,0 0.984	7,0 0.276
16S	7/8" x 20 UNEF	25,5 1.004	33,9 1.339	13,5 0.532	28,0 1.102	7,0 0.276
16	7/8" x 20 UNEF	25,5 1.004	33,9 1.339	13,5 0.532	28,0 1.102	7,0 0.276
18	1" x 20 UNEF	28,5 1.122	36,9 1.433	14,6 0.575	31,0 1.220	7,0 0.276
20	1 1/8" x 18 UNEF	32,5 1.280	36,9 1.433	18,5 0.728	35,0 1.378	7,0 0.276
22	1 1/4" x 18 UNEF	34,5 1.358	36,9 1.433	20,8 0.819	38,0 1.496	7 0 0.276
24	1 3/8" x 18 UNEF	38,5 1.516	36,9 1.433	24,6 0.969	41,0 1.614	7,0 0.276
28	1 5/8" x 18 UNEF	41,5 1.634	35,9 1.413	27,0 1.063	48,0 1.890	7,0 0.276
32	1 7/8" x 16 UN	48,5 1.910	35,9 1.413	33,3 1.311	54,0 2.216	7,0 0.276
36	2 1/16" x 16 UNS	55,5 2.185	35,9 1.413	38,5 1.516	61,0 2.402	7,0 0.276

Multicore Cable Clamp Acc Style SB-**-**-MCA



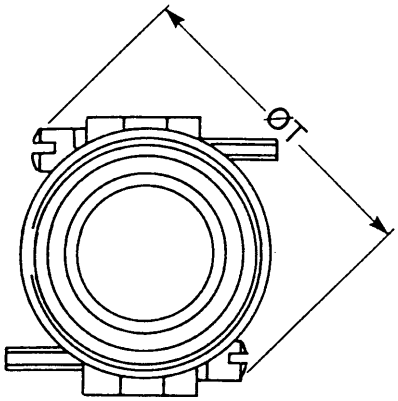


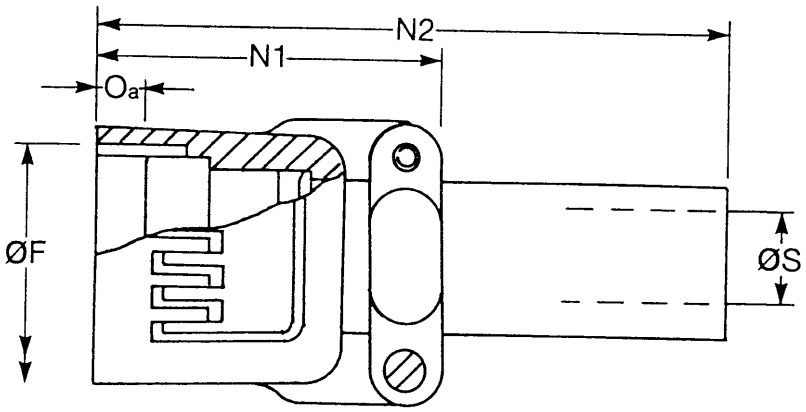
How to order: **SB - ** - ** - MCA**
Shell size
Contact arrangement
Typical Example: **SB - 10SL - 3 - MCA**
(Includes grommet + nylon follower)

Metric Imperial

Shell size	N1 max	N2 max	ØF Thread Class - 2B	ØS min	ØS max	ØT max	O_a overlap accessories
10 SL	45,34 1.785	95,86 3.774	5/8" x 24 UNEF	3,68 0.145	5,76 0.227	35,15 1.384	6,10 0.240
14 S	45,34 1.785	92,69 3.649	3/4" x 20 UNEF	4,62 0.182	8,1 0.319	39,88 1.570	6,10 0.240
16 S	45,34 1.785	89,64 3.529	7/8" x 20 UNEF	7,82 0.308	11,3 0.444	41,45 1.632	6,10 0.240
16	45,34 1.785	89,64 3.529	7/8" x 20 UNEF	7,82 0.308	11,3 0.444	41,45 1.632	6,10 0.240
18	50,11 1.937	91,11 3.587	1" x 20 UNEF	8,79 0.346	14,4 0.569	45,52 1.792	7,60 0.300
20	50,11 1.937	87,94 3.462	1 1/8" x 18 UNEF	10,54 0.415	16,0 0.632	49,63 1.958	7,60 0.300
22	50,11 1.937	87,94 3.462	1 1/4" x 18 UNEF	10,54 0.415	16,0 0.632	49,63 1.958	7,60 0.300
24	50,11 1.937	84,76 3.337	1 3/8" x 18 UNEF	14,55 0.573	19,2 0.757	56,29 2.216	7,60 0.300
28	59,54 2.340	94,09 3.704	1 5/8" x 18 UNEF	14,15 0.557	19,2 0.757	60,45 2.380	7,60 0.300
32	59,54 2.340	90,91 3.579	1 7/8" x 16 UN	19,18 0.755	23,9 0.949	68,43 2.694	7,60 0.300
36	59,54 2.340	87,73 3.454	2" x 18 UNS	24,51 0.965	31,3 1.232	71,68 2.822	7,60 0.300

Cable Clamp - Accessory Type D
AB Style: ABB-**-**-OCN. BS Style: A2527



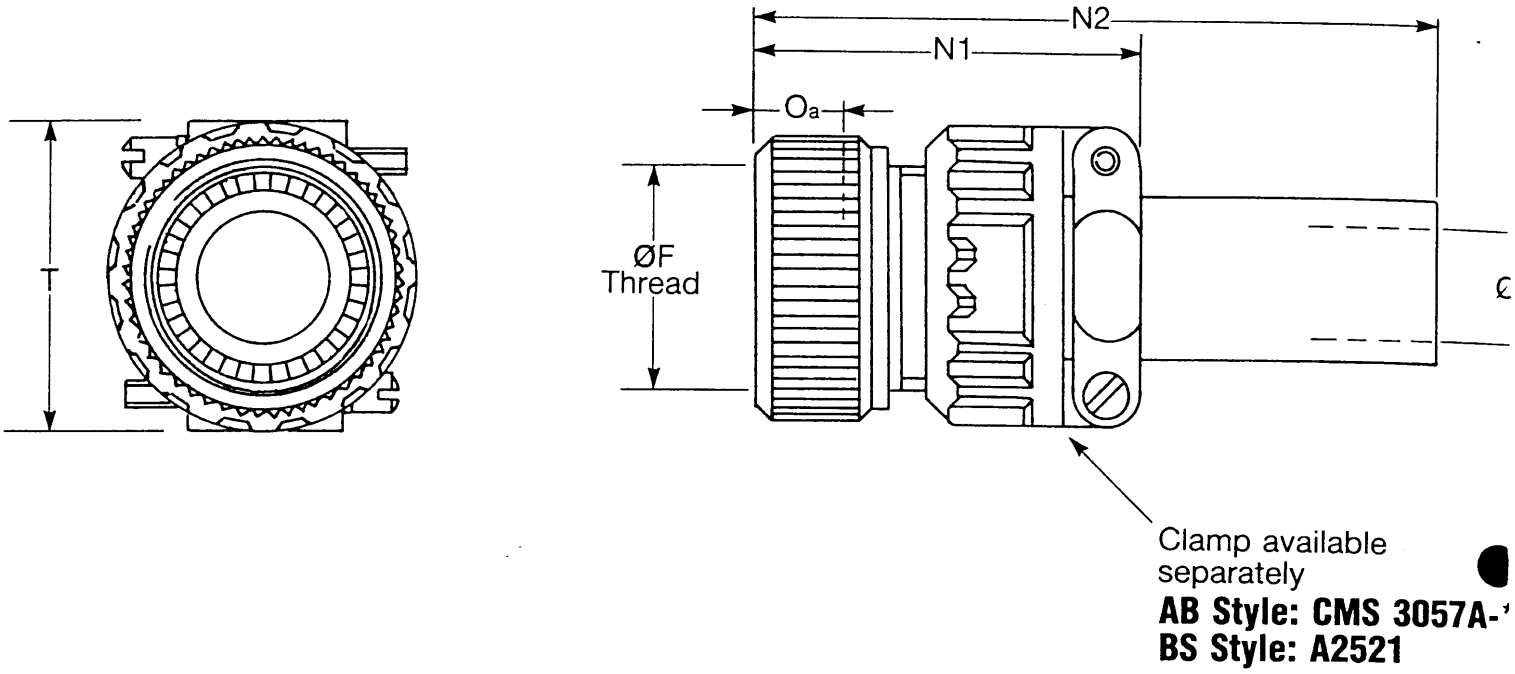


How to order: **ABB - ** - ** - OCN.**
Shell size
Contact arrangement
Typical Example: **ABB - 10SL - 3 - OCN**
(Includes grommet + nylon follower)

Metric Imperial

Shell size	N1 max	N2 max	ØF Thread class 2B	ØS min	ØS max	ØT max	Oa min overlap accessory
10 SL	36,42 1.434	86,68 3.413	5/8" x 24 UNEF	3,68 0.145	5,76 0.227	35,15 1.384	7,0 0.276
14 S	27,41 1.079	85,04 3.348	3/4" x 20 UNEF	4,62 0.182	8,1 0.319	39,88 1.570	7,0 0.276
16 S	27,41 1.079	81,99 3.228	7/8" x 20 UNEF	7,82 0.308	11,3 0.444	41,45 1.632	7,0 0.276
16	27,41 1.079	81,99 3.228	7/8" x 20 UNEF	7,82 0.308	11,3 0.444	41,45 1.632	7,0 0.276
18	44,68 1.759	85,55 3.368	1" x 20 UNEF	8,79 0.346	14,4 0.569	45,52 1.792	7,0 0.276
20	44,68 1.759	84,61 3.331	1 1/8" x 18 UNEF	10,54 0.415	16,0 0.632	49,63 1.958	7,0 0.276
22	44,68 1.759	84,61 3.331	1 1/4" x 18 UNEF	10,54 0.415	16,0 0.632	49,63 1.958	7,0 0.276
24	44,68 1.759	79,20 3.118	1 3/8" x 18 UNEF	14,55 0.573	19,2 0.757	56,29 2.216	7,0 0.276
28	54,79 2.157	89,31 3.156	1 5/8" x 18 UNEF	14,15 0.557	19,2 0.757	60,45 2.380	7,0 0.276
32	54,79 2.157	86,13 3.390	1 7/8" x 16 UN	19,18 0.755	23,9 0.944	68,43 2.694	7,0 0.276
36	54,79 2.157	82,98 3.267	2 1/16" x 16 UNS	24,51 0.965	31,3 1.232	71,68 2.822	7,0 0.276

Cable Clamp (Locking) - Accessory Type H/C
AB Style: ABB-**-**-HC. BS Style: A2761

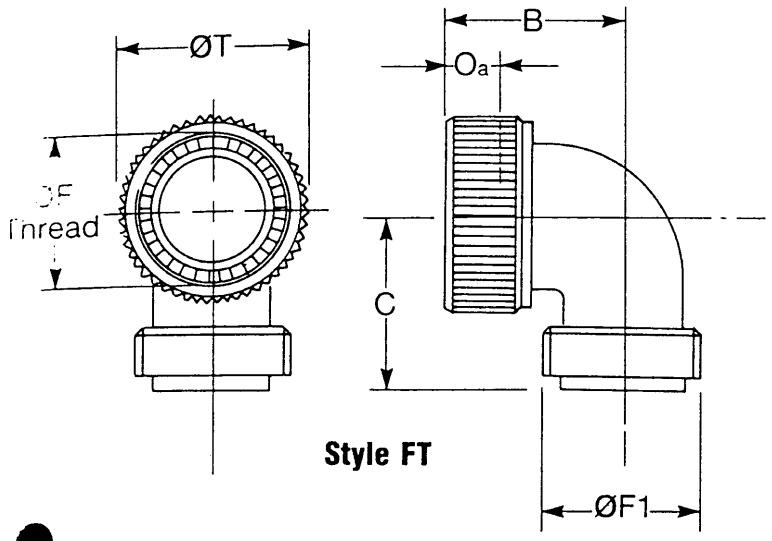


How to order: **ABB - ** - ** - HC**
Shell size
Contact arrangement
Typical Example: **ABB - 10SL - 3 - HC**
(Includes grommet)

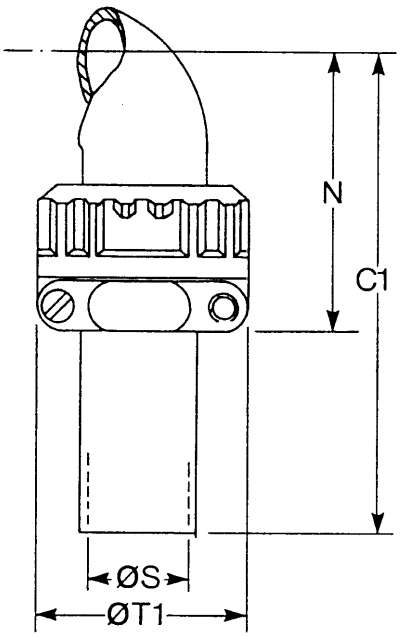
Metric Imperial

Shell Size	ØF Thread dia. class 2B	N1 max	N2 max	Øa min	ØS max	T max
10SL	5/8" x 24 UNEF	40,1 1.58	100,1 3.94	7,0 0.276	5,76 0.227	22,7 0.90
14S	3/4" x 20 UNEF	41,7 1.65	96,7 3.81	7,0 0.276	8,1 0.319	27,5 1.09
16S	7/8" x 20 UNEF	43,5 1.72	98,5 3.88	7,0 0.276	11,3 0.444	30,0 1.19
16	7/8" x 20 UNEF	43,5 1.72	93,5 3.68	7,0 0.276	11,3 0.444	30,0 1.19
18	1" x 20 UNEF	50,0 1.92	95,0 3.74	7,0 0.276	14,4 0.569	33,0 1.30
20	1 1/8" x 18 UNEF	45,5 1.80	90,5 3.57	7,0 0.276	16,0 0.632	37,5 1.48
22	1 1/4" x 18 UNEF	45,5 1.80	90,5 3.57	7,0 0.276	16,0 0.632	37,50 1.48
24	1 3/8" x 18 UNEF	47,5 1.87	77,5 3.05	7,0 0.276	19,2 0.757	43,3 1.71
28	1 5/8" x 18 UNEF	47,6 1.88	77,6 3.06	7,0 0.276	19,2 0.757	43,3 1.71
32	1 7/8" x 16 UN	46,5 1.83	76,5 3.02	7,0 0.276	23,9 0.944	51,7 2.04
36	2 1/16" x 16 UNS	46,4 1.83	76,4 3.01	7.0 0.276	31,3 1.232	58,0 2.29

90° Angled Outlets - Accessory Type FT / F
AB Styles: ABB-**-**-FT/ABB-**-**-F
BS Styles: A2522/A2523



Style FT



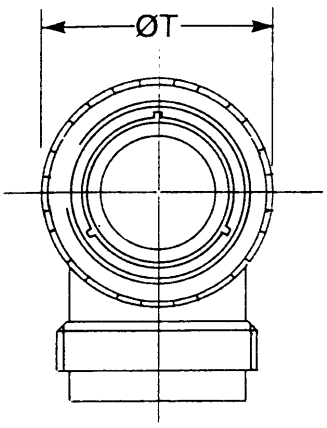
Style F

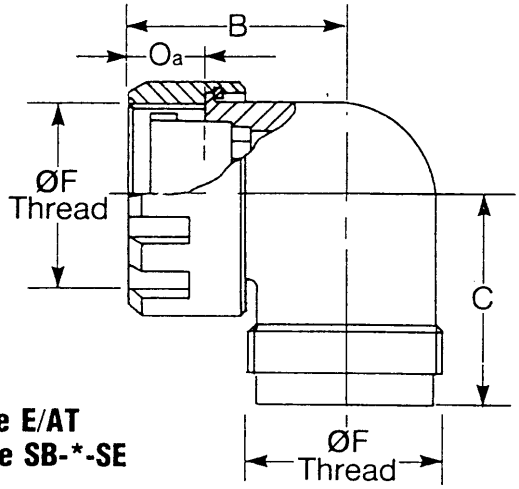
How to order: **ABB - ** - ** - FT**
Shell size
Contact arrangement
Typical Example: **ABB - 10SL - 3 - FT**
(Includes grommet)

Metric Imperial

Shell size	B max	C max	C1 max	ØF Thread dia. class 2B	ØF1 Thread dia. class 2A	N max	ØT max	ØT1 max	ØS max	Oa min overlap accessories
10 SL	24,0 0.945	30,0 1.181	100,0 3.937	5/8" x 24 UNEF	5/8" x 24 NEF	42,0 1.654	22,0 0.87	22,7 0.894	5,76 0.227	7,0 0.276
14 S	25,0 0.984	30,0 1.181	100,0 3.937	3/4" x 20 UNEF	3/4" x 20 UNEF	42,0 1.654	25,0 0.99	27,5 1.083	8,1 0.319	7,0 0.276
16 S	27,0 1.063	30,0 1.181	100,0 3.937	7/8" x 20 UNEF	7/8" x 20 UNEF	45,0 1.772	28,0 1.11	30,0 1.181	11,3 0.444	7,0 0.276
16	27,0 1.063	30,0 1.181	100,0 3.937	7/8" x 20 UNEF	7/8" x 20 UNEF	45,0 1.772	28,0 1.11	30,0 1.181	11,3 0.444	7,0 0.276
18	30,1 1.185	35,0 1.378	100,0 3.937	1" x 20 UNEF	1" x 20 UNEF	53,0 2.087	31,0 1.22	33,0 1.299	14,4 0.569	7,0 0.276
20	33,0 1.299	35,0 1.378	100,0 3.937	1 1/8" x 18 UNEF	1 1/8" x 18 UNEF	53,0 2.087	35,0 1.38	37,5 1.476	16,0 0.632	7,0 0.276
22	33,1 1.303	35,0 1.378	100,0 3.937	1 1/4" x 18 UNEF	1 1/4" x 18 UNEF	53,0 2.087	38,0 1.50	37,5 1.476	16,0 0.632	7,0 0.276
24	37,9 1.492	40,0 1.575	100,0 3.937	1 3/8" x 18 UNEF	1 3/8" x 18 NEF	58,0 2.283	41,0 1.62	43,3 1.705	19,2 0.757	7,0 0.276
28	37,9 1.461	40,0 1.575	100,0 3.937	1 5/8" x 18 UNEF	1 5/8" x 18 NEF	58,0 2.283	48,0 1.89	43,3 1.705	19,2 0.757	7,0 0.276
32	43,1 1.697	45,0 1.772	110,0 4.331	1 7/8" x 16 UN	1 3/4" x 18 NS	66,0 2.598	54,0 2.13	51,7 2.035	23,9 0.944	7,0 0.276
36	45,9 1.807	50,0 1.969	110,0 4.331	2 1/16" x 16 UNS	2" x 18 NS	69,0 2.717	61,0 2.40	58,0 2.283	31,3 1.232	7.0 0.276

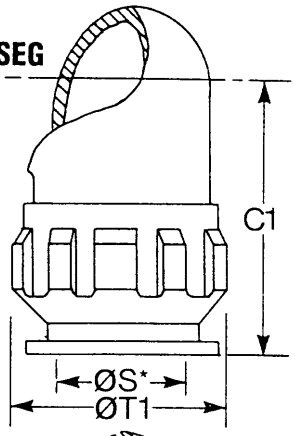
90° Angled Outlets- Acc. Type E/AT E/A E/AC (5M3 Locking
AB Style: SB-**-**SE/SB-**-**SEG/SB-**-**SEC.
BS Style: A2348/A2357/A2358



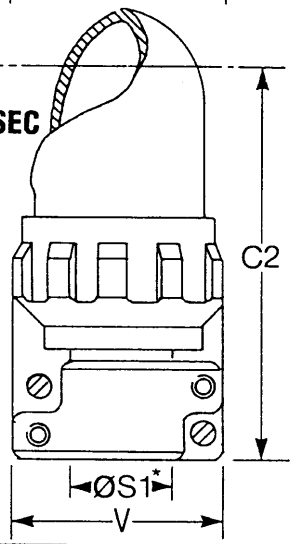


Type E/AT
Style SB-*-SE

Type E/A
Style SB-*-SEG



Type E/AC
Style SB-*-SEC

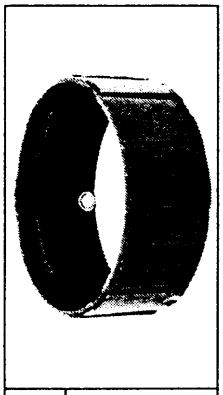


How to order: **SB - ** - ** - SE**
Shell size
Contact arrangement
Typical Example: **SB - 10SL - 3 - SE**
*Note for ØS and ØS1 see page 24.

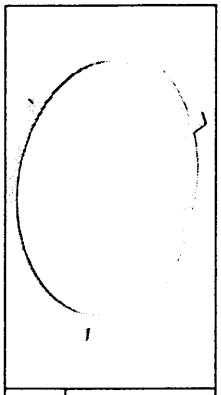
Metric Imperial

Shell size	B max	C max	C1 max	C2 max	ØF Thread Ø class 2B	ØT max	ØT1 max	V max	Oa min overlap accessory
10 SL	25,88 1.019	23,6 0.928	35,41 1.394	43,99 1.732	5/8" x 24 UNEF	24,7 0.973	21,59 0.850	21,47 0.845	5,1 0.200
14 S	26,72 1.052	26,4 1.040	36,83 1.450	47,62 1.875	3/4" x 20 UNEF	29,5 1.161	24,77 0.975	24,64 0.970	5,1 0.200
16 S	28,17 1.109	27,9 1.097	38,28 1.507	49,02 1.930	7/8" x 20 UNEF	31,8 1.254	28,70 1.130	28,70 1.130	5,1 0.200
16	28,17 1.109	27,9 1.097	38,28 1.507	49,02 1.930	7/8" x 20 UNEF	31,8 1.254	28,70 1.130	28,70 1.130	7,6 0.300
18	38,0 1.496	32,4 1.276	42,70 1.681	61,47 2.420	1" x 20 UNEF	34,2 1.348	31,88 1.255	31,88 1.255	7,6 0.300
20	39,52 1.556	35,7 1.407	46,02 1.812	64,82 2.552	1 1/8" x 18 UNEF	37,4 1.473	34,92 1.375	35,06 1.380	7,6 0.300
22	40,36 1.589	37,3 1.462	47,42 1.867	66,22 2.607	1 1/4" x 18 UNEF	40,6 1.598	38,23 1.505	38,23 1.505	7,6 0.300
24	44,81 1.764	38,8 1.530	49,15 1.935	67,95 2.675	1 3/8" x 18 UNEF	43,8 1.723	41,40 1.630	41,40 1.630	7,6 0.300
28	45,19 1.779	41,7 1.642	52,25 2.057	70,79 2.787	1 5/8" x 18 UNEF	50,1 1.973	47,76 1.880	47,76 1.880	7,6 0.300
32	50,57 1.991	44,8 1.762	55,17 2.172	73,96 2.912	1 7/8" x 16 UN	56,5 2.223	54,10 2.130	54,10 2.130	7,6 0.300
36	52,73 2.076	47,0 1.852	57,66 2.270	57,66 2.270	2" x 18 UNS	62,8 2.473	58,67 2.310	58,75 2.313	7,6 0.300

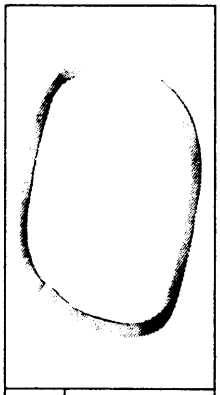
SPARES



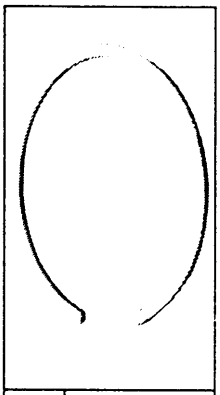
Shell size	ARCTIC GRIP COUPLING NUT for ABB06T
10SL	121B-10SL-N-A
14S	121B-14S-N-A
16S	121B-16S-N-A
16	Not available
18	121B-18-N-A
20	121B-20-N-A
22	121B-22-N-A
24	121B-24-N-A
28	121B-28-N-A
32	121B-32-N-A
36	121B-36-N-A



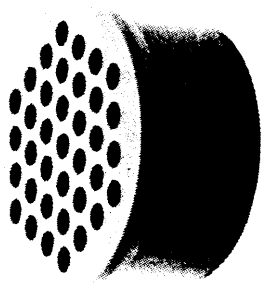
Shell size	RFI EARTHING DISC
10 SL	121B-10SL-Z-CH
14S	121B-14S-Z-CH
16S	121B-16S-Z-CH
16	Not available
18	121B-18-Z-CH
20	121B-20-Z-CH
22	121B-22-Z-CH
24	121B-24-Z-CH
28	121B-28-Z-CH
32	121B-32-Z-CH
36	121B-36-Z-CH



Shell size	RFI WAVY WASHER
10 SL	121B-10SL-W-CH
14S	121B-14S-W-CH
16S	121B-16S-W-CH
16	Not available
18	121B-18-W-CH
20	121B-20-W-CH
22	121B-22-W-CH
24	121B-24-W-CH
28	121B-28-W-CH
32	121B-32-W-CH
36	121B-36-W-CH



Shell size	CIRCLIP
10 SL	121B-10SL-IC-CH
14S	121B-14S-IC-CH
16S	121B-16S-IC-CH
16	Not available
18	121B-18-IC-CH
20	121B-20-IC-CH
22	121B-22-IC-CH
24	121B-24-IC-CH
28	121B-28-IC-CH
32	121B-32-IC-CH
36	121B-36-IC-CH

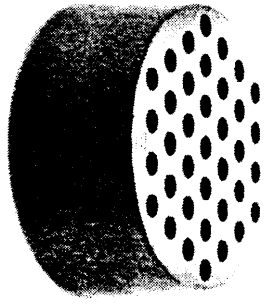


GROMMETS:
ABB Style used with accessory classes: D,F,FT,G, H,H/C and M only

To order: **ABB - ** - ** - GAC**

Shell size

Contact Arrangement



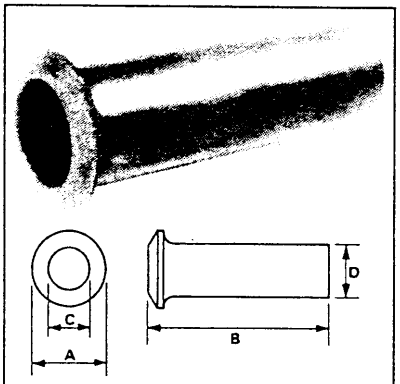
GROMMETS:
SB MS Style used with accessory classes: E,E/C, E/MC,E/A,E/AT, and E/AC only

To order **SB - ** - ** - G**

Shell size

Contact Arrangement

Contact size AWG (metric)	WIRE INSULATION LIMITS			
	Min. O/D		Max. O/D	
	mm	(in)	mm	(in)
20(10)	1,52	(0.060)	2,16	(0.085)
16S/16(155/15)	1,68	(0.066)	2,77	(0.109)
12(25)	2,46	(0.097)	3,61	(0.142)
8(60/100)	4,34	(0.171)	5,48	(0.216)
4(160)	7,00	(0.276)	8,18	(0.322)
0(500)				



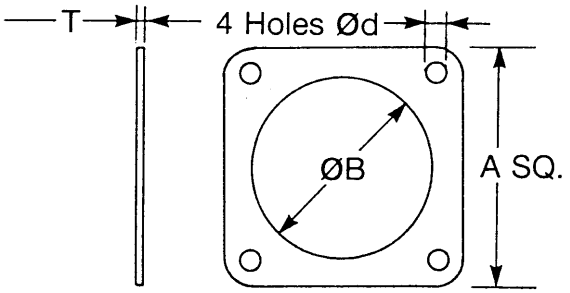
Shell size	BUSHING	Dimensions A ±0,178 (0.007)	B ±0,178 (0.007)	C ±0,178 (0.007)	D ±0,178 (0.007)
10SL	SB-MS 554/1	12,83 (0.505)	69,85 (2.750)	5,59 (0.220)	7,62 (0.300)
14S	SB-MS 554/2	15,88 (0.625)	66,68 (2.625)	7,92 (0.312)	10,80 (0.425)
16S	SB-MS 554/3	19,05 (0.750)	63,50 (2.500)	11,10 (0.437)	13,97 (0.550)
16	SB-MS 554/3	19,05 (0.750)	63,50 (2.500)	11,10 (0.437)	13,97 (0.550)
18	SB-MS 554/4	22,23 (0.875)	60,33 (2.375)	14,27 (0.562)	15,67 (0.613)
20	SB-MS 554/5	25,40 (1.000)	57,15 (2.250)	15,88 (0.625)	18,75 (0.738)
22	SB-MS 554/6	28,58 (1.125)	57,15 (2.250)	15,88 (0.625)	18,75 (0.738)
24	SB-MS 554/7	31,75 (1.250)	53,98 (2.125)	19,05 (0.750)	23,50 (0.925)
28	SB-MS 554/8	38,23 (1.505)	53,98 (2.125)	19,05 (0.750)	23,50 (0.925)
32	SB-MS 554/9	44,45 (1.750)	50,80 (2.000)	23,80 (0.937)	31,45 (1.238)
36	SB-MS 554/10	47,14 (1.856)	47,85 (1.884)	31,12 (1.225)	34,90 (1.374)

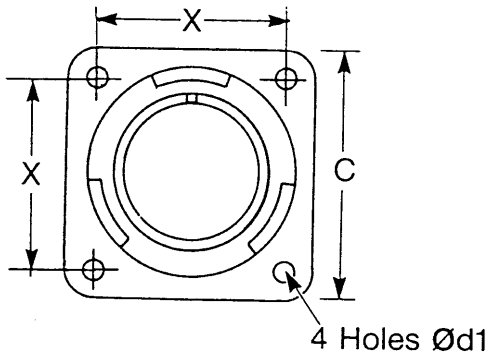
The bushings are used with accessory types D, E/MC, F, and H/C. They can be fitted inside one another to reduce the cable entry diameter to improve clamping and sealing.

Panel Sealing Gaskets

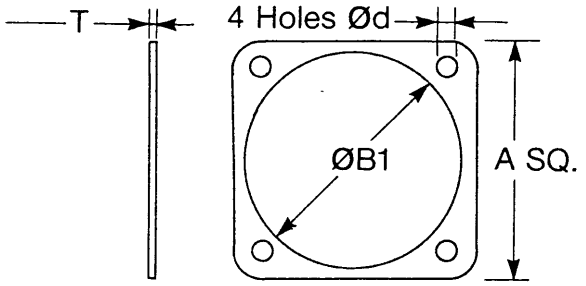
Stowage Receptacle
AB Style: AB-**-SX
BS Style: A2541

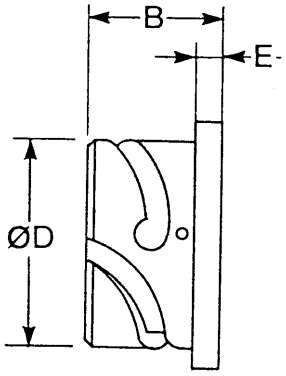
Front Mounted Receptacle
AB Part Number: SB--RPG**
BS Style: A2765 Sealing only, A2766 + RFI





Rear Mounted Receptacle
AB Part Number: SB--FPG**
BS Style: 2767 Sealing only, 2768 + RFI





Note: For RFI Conductive Screening Gaskets suffix Part Number with **-S.**

Metric Imperial

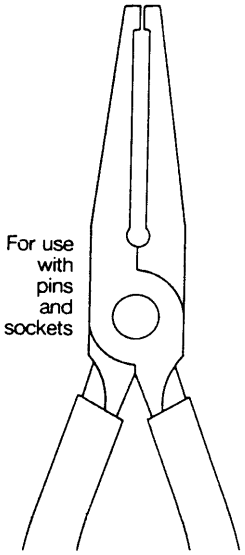
Shell size**	A Nominal	ØB Nominal	ØB1 Nominal	Ød Nominal	T Nominal
10 SL	25,4 1.000	15,0 0.625	18,3 0.720	3,43 0.135	1,0 0.040
14 S	30,2 1.188	19,0 0.750	24,7 0.972	3,43 0.135	1,0 0.040
16 S	32,5 1.280	22,2 0.875	27,5 1.083	3,43 0.135	1,0 0.040
16	32,5 1.280	22,2 0.875	27,5 1.217	3,43 0.135	1,0 0.040
18	34,9 1.375	25,4 1.000	30,9 1.217	3,43 0.135	1,0 0.040
20	38,1 1.500	28,6 1.125	34,3 1.350	3,43 0.135	1,0 0.040
22	41,3 1.625	31,7 1.250	37,5 1.476	3,43 0.135	1,0 0.040
24	44,5 1.750	34,9 1.375	41,0 1.614	4,12 0.162	1,0 0.040
28	50,8 2.000	41,3 1.625	46,8 1.843	4,12 0.162	1,0 0.040
32	57,2 2.250	47,6 1.875	53,5 2.106	4,78 0.188	1,0 0.040
36	63,5 2.500	52,6 2.062	59,7 2.350	4,78 0.188	1,0 0.040

Part number	B max	C max	ØD max	Ød1 max	E max	X
ABB-10SL-SX	17,6 0.693	25,7 1.012	18,2 0.717	3,2 0.126	3,0 0.118	18,2 0.717
ABB-14S-SX	18,0 0.709	30,3 1.193	24,6 0.969	3,2 0.126	3,4 0.134	23,6 0.909
ABB-16S-SX	18,0 0.709	32,8 1.291	27,4 1.079	3,2 0.126	3,4 0.134	24,6 0.969
ABB-16-SX	22,8 0.898	32,8 1.291	27,4 1.079	3,2 0.126	3,4 0.134	24,6 0.969
ABB-18-SX	23,6 0.929	35,3 1.390	30,8 1.213	3,2 0.126	4,2 0.165	27,0 1.063
ABB-20-SX	23,6 0.929	38,3 1.508	34,2 1.346	3,2 0.126	4,2 0.165	29,4 1.157
ABB-22-SX	23,6 0.929	41,3 1.626	37,4 1.472	3,2 0.126	4,2 0.165	31,8 1.252
ABB-24-SX	25,2 0.992	44,8 1.764	40,9 1.610	3,7 0.146	4,2 0.165	34,9 1.374
ABB-28-SX	25,2 0.992	51,1 2.012	46,7 1.838	3,7 0.146	4,2 0.165	39,7 1.563
ABB-32-SX	26,8 1.055	57,3 2.256	53,4 2.102	4,3 0.169	4,2 0.165	44,5 1.752
ABB-36-SX	26,8 1.055	63,8 2.512	59,6 2.346	4,3 0.169	4,2 0.165	49,2 1.937

TOOLING FOR CRIMP CONTACTS

INSERTION TOOL

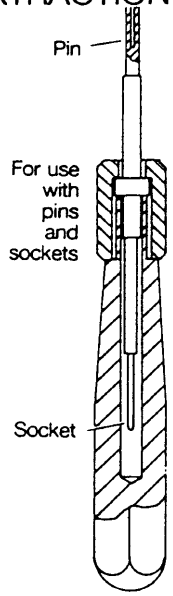
Contact size AWG (Metric)	Part number
20 (10)	ABB-IT-20
16/16S (15/15S)	ABB-IT-16
12 (25)	ABB-IT-12
8 (60/100)	Tool not required
4 (160)	
0 (500)	



For use with pins and sockets

Contact size AWG (Metric)	Part number
20 (10)	ABB-ET-20
16/16S (15/15S)	ABB-ET-16
12 (25)	ABB-ET-12
8 (60/100)	Tool not required
4 (160)	
0 (500)	

EXTRACTION TOOL



HAND TOOLS

Contact size AWG (Metric)	Contact part number	Contact type	Hand crimp tool	Locator
20 (10)	*ABB-20-KPK	PIN	MS3191-A or alternative M22520/1-01 locators for this tool shown in blue	600219 600325
20 (10)	*ABB-20-KSK	SKT		600219 600325
16 S (15S)	*ABB-16S-KPK	PIN		600093 600324
16 S (15S)	*ABB-16S-KSK	SKT		600094 600325
16 (15)	*ABB-16-KPK	PIN		600091 600324
16 (15)	*ABB-16-KSK	SKT		600092 600325
12 (25)	*ABB-12-KPK	PIN		600302 600324
12 (25)	*ABB-12-KSK	SKT		600216 600325

* AWG - Metric contacts are harmonised as the same part number.

HYDRAULIC TOOLS

Contact size AWG (Metric)	Contact part number	Contact type	Hydraulic crimp tool	Die set
8	ABB-8-KPK	PIN	ERMA type 19600	22390
8	ABB-8-SKSK	SKT		22390
(60)	ABB-60-KPK	PIN		22390
(60)	ABB-60-SKSK	SKT		22390
(100)	ABB-100-KPK	PIN		22390
(100)	ABB-100-SKSK	SKT		22390
4	ABB-4-KPK	PIN		22391
4	ABB-4-SKSK	SKT		22391
(160)	ABB-160-KPK	PIN		22391
(160)	ABB-160-SKSK	SKT		22391
0	ABB-0-KPK	PIN		22392
0	ABB-0-SKSK	SKT		22392
500	ABB-500-KPK	PIN		22392
500	ABB-500-SKSK	SKT		22392

SOCKET CONTACT GUIDE PINS

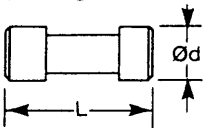
Contact size AWG (Metric)	Part number
20 (10)	ABB-20-SGP
16/16S (15/15S)	ABB-16-SGP
12 (25)	ABB-12-SGP
8 (60/100)	Not required
4 (160)	
0 (500)	

CONTACTS, DUMMY CONTACTS AND GROMMET PLUGS

CRIMP CONTACTS
Removable/replaceable silver plated contacts with wire location inspection hole. Alternative finishes are available.

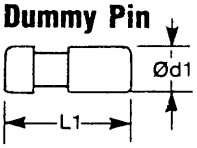
Contact size AWG (Metric)	Crimp bucket inside Dia (mm) nominal	Conductor CSA mm²	Pin contact Part No	SKT contact Part No	Conductor stripping length (mm)
20 (10)	1,5	0,75 - 1,0	ABB-20-KPK	ABB-20-KSK	4,0
16S (15S)	1,75	1,0 - 1,5	ABB-16S-KPK	ABB-16S-KSK	6,2
16 (16)	1,75	1,0 - 1,5	ABB-16-KPK	ABB-16-KSK	6,2
12 (25)	2,5	2,5	ABB-12-KPK	ABB-12-KSK	6,2
(60)	3,5	6,0	ABB-60-KPK	ABB-60-SKSK	11,8
8	4,55	9,0	ABB-8-KPK	ABB-8-SKSK	11,8
(100)	4,80	10,0	ABB-100-KPK	ABB-100-SKSK	11,8
(160)	6,2	16,0	ABB-160-KPK	ABB-160-SKSK	11,8
4	7,1	22,0	ABB-4-KPK	ABB-4-SKSK	11,8
(500)	10,5	50,0	ABB-500-KPK	ABB-500-SKSK	13,7
0	11,5	53,0	ABB-0-KPK	ABB-0-SKSK	13,7

Grommet Filler Plugs
(ABB grommets only)



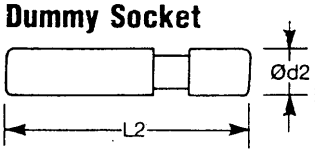
Part No: ABB--K-FP**
BS Style: A2538

Dummy Pin



Part No: ABB--K-DP**
BS Style: A2540

Dummy Socket



Part No: ABB--K-DS**
BS Style: A2539

Metric Imperial

Contact size - ** - AWG (Metric)	L max	Ød max	L1 max	Ød1 max	L2 max	Ød2 max	Colour code
20 (10)	9,7 0.382	3,2 0.126	20,4 0.803	2.6 0.102	37,0 1.457	2,6 0.102	Red
16S (15S)	12,3 0.484	3,9 0.154	16,4 0.646	3.2 0.126	28,5 1.122	3,4 0.134	Blue
16 (15)	12,3 0.484	3,9 0.154	20,4 0.803	3.2 0.126	37,0 1.457	3,4 0.134	Blue
12 (25)	12,3 0.484	4,8 0.189	21,4 0.843	4.8 0.189	36,5 1.437	4,8 0.189	Yellow
8 (60/100)	12,3 0.484	6,0 0.236	DUMMY CONTACTS NOT AVAILABLE				White
4 (160)	12,3 0.484	8,7 0.343					Green
0 (500)	12,3 0.484	13,5 0.531					Black

SOLDER CONTACTS Non-removable silver plated contacts with preloaded solder buckets.

Contact size	20	16S/16	12	8	4	0
Bucket inside Dia.mm nominal	1,6	1,85	2,95	5,31	8,35	12,0
Max conductor CSA mm²	1,0	1,5	2,5	9,0	22,0	53,0

CRIMP BUCKET ADAPTORS

Contact size	Wire size AWG	Part number
16 S/16	20	ABB-1620-CBA
16 S/16	22	ABB-1622-CBA
12	16	ABB-1216-CBA

For alternative ranges consult factory.

1. STRIPPING

1.1 Strip conductors as per chart on Crimp Contacts, page 36.

1.2 Introduce the stripped conductor into the crimp bucket of the contact so that it is visible through the inspection hole.

2. CRIMPING METHOD

2.1 Contacts sizes 8, 4 and 0 (Metric 60/100, 160 & 500). Use the prescribed hydraulic crimping tool. Make sure the crimping die and contact size are matching. Place the contact (with conductor inserted into the crimp bucket) into the centre of the hexagonal crimping die, ensuring the intended crimped area of the contact is located centrally within the die, then operate the tool.
After crimping, a small uncrimped collar must be visible between the hexagonal crimp and the end of the contact.

2.2 Contact sizes AWG 20, 16/16S and 12 (Metric 10, 15/15S and 25).
Use the prescribed manual crimping tool. Make sure that crimping locator and contact size are matching. Operate the empty tool once to ensure the crimping dies are completely open. Position the contact with the conductor in the crimping tool. The tool action ensures that the wired contact is released only after the complete cycle has been performed.

2.3 Remove the wired contact from the tool and check that the conductor is visible through the inspection hole.

3. INSERTION OF CONTACTS

3.1 Place the loose connector parts over the cable in the correct order for reassembly. It is suggested that the cables are threaded through the grommet before the stripping and crimping operation.

3.2 Dip the contacts into the dehydrated alcohol and insert them into the contact cavities from the rear of the connector.
Using the prescribed insertion tool for contacts sizes 10 AWG (M10), 16S AWG (M15S), 16 AWG (M16) and 12 AWG (M25) exert a steady pressure until they lock. Contacts sizes 8 AWG (M 60/100), 4 AWG (M160) and 0 AWG (M500) can be inserted without the use of an insertion tool.

3.3 Empty contact cavities should be filled by dummy contacts.

3.4 Empty wiring cavities in the grommet should be filled with grommet filler plugs.

3.5 Reassemble all loose connector parts.

3.6 Inspection of the connector face will show whether all contacts are correctly inserted.

4. EXTRACTION OF CONTACTS

4.1 Pull back loose connector parts over the cable and proceed as follows, using the prescribed extraction tool.

4.2 Working from the face of the connector, place the tool into the socket or over the pin, apply an even pressure and push the contact out from the rear of the connector, completing the operation when the shoulder of the tool rests against the insulator.

AB connector style	BS9522 F0032 style	VG 95234 style
ABB00A		A
ABB00A..M6		
ABB00T	C2503	
ABB00T..M6	C2504	
ABB00E	C2503 + A2344	
ABB00E..M6	C2504 + A2344	
ABB00E/C	C2503 + A2345	
ABB00E/C..M6	C2504 + A2345	
ABB00E/MC	C2503 + A2346	
ABB00E/MC..M6	C2504 - A2346	
ABB00E/A	C2503 + A2357	
ABB00E/A..M6	C2504 + A2357	
ABB00E/AT	C2503 + A2348	
ABB00E/AT..M6	C2504 + A2348	
ABB00E/AC	C2503 + A2358	
ABB00E/AC..M6	C2504 + A2358	
ABB00D	C2503 + A2527	
ABB00D..M6	C2504 + A2527	
ABB00G	C2503 + A2525	
ABB00G..M6	C2504 + A2525	
ABB00H	C2503 + A2524	
ABB00H..M6	C2504 + A2524	
ABB00H/C	C2503 + A2760	
ABB00H/C..M6	C2504 + A2760	
ABB00M	C2503 + A2526	
ABB00M..M6	C2504 + A2526	
ABB00F	C2503 + A2523	
ABB00F..M6	C2504 + A2523	
ABB00FT	C2503 + A2522	
ABB00FT..M6	C2504 + A2522	
ABB01T	C2509	
ABB01E	C2509 + A2344	
ABB01E/C	C2509 + A2345	
ABB01E/MC	C2509 + A2346	
ABB01D	C2509 + A2527	F
ABB01G	C2509 + A2525	
ABB01H	C2509 + A2524	
ABB01H/C	C2509 + A2760	
ABB01M	C2509 + A2526	
ABB03A	C2758	B2
ABB03A..M6	C2759	B1
ABB03T		
ABB03T..M6		
ABB03E		
ABB03E..M6		
ABB03E/C		
ABB03E/C..M6		
ABB03E/MC		
ABB03E/MC..M6		
ABB03E/A		
ABB03E/A..M6		
ABB03E/AT		
ABB03E/AT..M6		
ABB03E/AC		
ABB03E/AC..M6		
ABB03D		J2
ABB03D..M6		J1
ABB03G		U2
ABB03G..M6		U1

AB connector style	BS9522 F0032 style	VG95234 style
ABB03H	C2510	
ABB03H..M6	C2512	
ABB03H/C	C2510 + A2521	
ABB03H/C..M6	C2512 - A2521	
ABB03M	C2514	N2
ABB03M..M6	C2516	N1
ABB03F		
ABB03F..M6		
ABB03FT		
ABB03FT..M6		
ABB07	C2507	C2
ABB07..M6	C2508	C1
ABB06T	C2502	
ABBNS06T	C2501	
ABB06E	C2502 + A2344	
ABBNS06E	C2501 + A2344	
ABB06E/C	C2502 + A2345	
ABBNS06E/C	C2501 + A2345	
ABB06E/MC	C2502 + A2346	
ABBNS06E/MC	C2501 + A2346	
ABB08E	C2502 + A2357	
ABBNS08E	C2501 + A2357	
ABB08T	C2502 + A2348	
ABBNS08T	C2501 + A2348	
ABB08E/C	C2502 + A2358	
ABBNS08E/C	C2501 + A2358	
ABB06D	C2502 + A2527	
ABBNS06D	C2501 + A2527	
ABB06G	C2502 + A2525	
ABBNS06G	C2501 + A2525	
ABB06H	C2502 + A2524	
ABBNS06H	C2501 + A2524	
ABB06H/C	C2502 + A2760	
ABBNS06H/C	C2501 + A2760	
ABB06M	C2502 + A2526	
ABBNS06M	C2501 + A2526	
ABB08F	C2502 + A2523	
ABBNS08F	C2501 + A2523	
ABB08FT	C2502 + A2522	
ABBNS08FT	C2501 + A2522	
ABBE06T	C2528	
ABBSE06T	C2529	
ABBE06D	C2528 + A2527	D
ABBSE06D	C2529 - A2527	
ABBE06G	C2528 - A2525	G
ABBSE06G	C2529 - A2525	T
ABBE06H	C2528 - A2524	H
ABBSE06H	C2529 - A2524	L
ABBE06H/C	C2528 - A2760	
ABBSE06H/C	C2529 - A2760	
ABBE06M	C2528 - A2526	
ABBSE06M	C2529 - A2526	M
ABBE08F	C2528 - A2523	E
ABBSE08F	C2529 - A2523	K
ABBE08FT	C2528 - A2522	E1
ABBSE08FT	C2529 - A2522	

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