

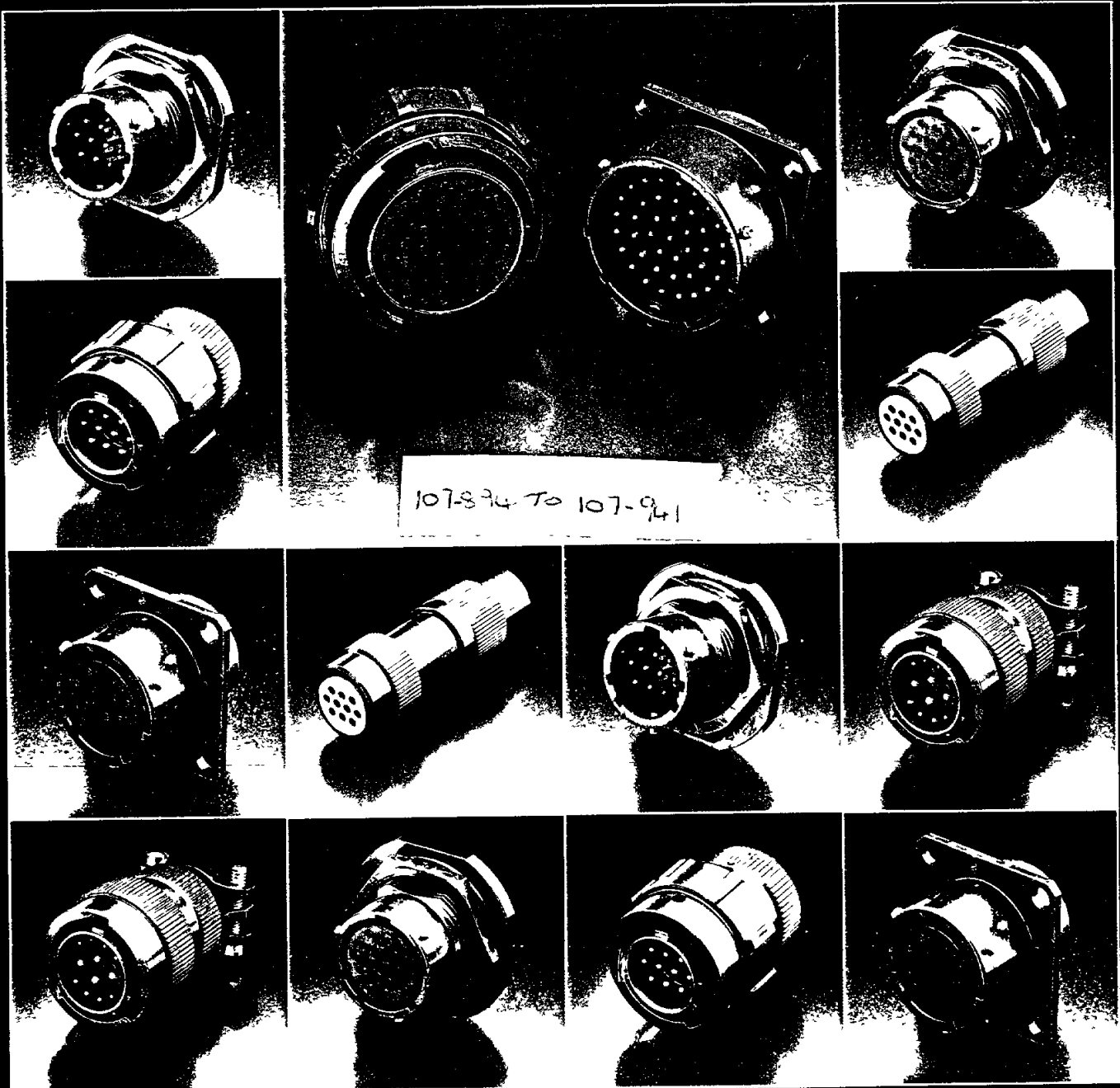


AB CONNECTORS

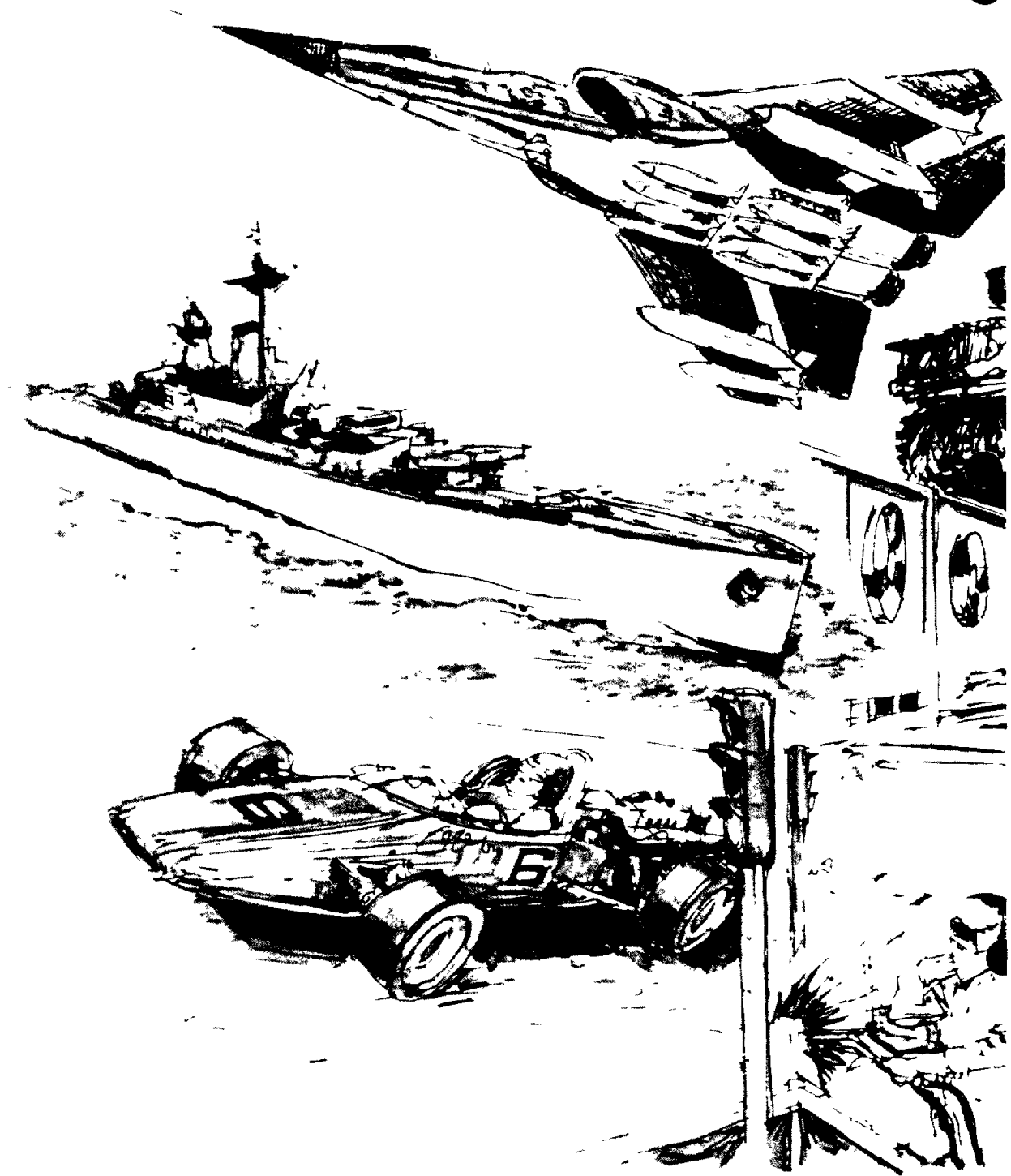
AB05

107-894
↓
941

Miniature Bayonet Connector



107-894 To 107-941



Introduction

AB05 Series Bayonet coupling connectors are fully approved to the stringent requirements of BS 9522 F0017 This specification supersedes Defence Standard 59-35 (Part 1) Section 3, Pattern 105, which was itself based on the U.S Military Specification MIL-C-26482 Series I (solder).

Initially developed for aircraft applications, miniature bayonet coupling connectors are now extensively used in the fighting vehicle, military communication and general industrial markets where high reliability, miniaturisation and cost effectiveness are of prime importance

AB05 Series connectors are interchangeable and intermateable with similar connectors of British, European or American origin.

Positive coupling is indicated by an audible click and by visual alignment of the three bayonet pins with



locating "windows" in the coupling nut. Coupling nuts are front removeable to enable damaged items to be replaced, or to allow the cleaning of dirt from the bayonet track.

Aluminium shells, cadmium plated with an olive drab chromate finish offer high resistance to corrosion. Alternative finishes and colours can be supplied to special order.

Insulators are polychloroprene with an operating temperature range of -55°C to $+125^{\circ}\text{C}$. Contact arrangements from 2 to 61 ways feature Size 16 AWG (13 amp.) or size 20 AWG (7.5 amp) contacts

Sealing against water ingress is achieved between mating connectors by a square section gasket between shells, by a peripheral seal on the insulators and by grommet wire sealing at the rear of the connector.

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Standard Data

MECHANICAL FEATURES

Shell Size	8 to 24, measured in sixteenths of an inch
Coupling	Three Pin Bayonet
Contact Termination	Solder Bucket, Crimp (Rubber Retention), Pin Tails for P C B applications and flexible printing wiring
Sealing	Barrier, or Barrier and Panel seal Dynamic Peripheral Seal between mating shells

MATERIALS

Shells	Aluminium Alloy
Insulator	Polychloroprene
Grommet	Polychloroprene
Contacts	Brass
Accessory Hardware	Aluminium Alloy

PLATING FINISHES

Shells	Conductive, Olive Drab over Cadmium Plate
Contacts	Gold over Nickel
Accessory Hardware	Conductive, Olive Drab over Cadmium Plate

Technical Data

TEMPERATURE RANGE

Environmental Rating $-55^{\circ}\text{C} + 125^{\circ}\text{C}$

VOLTAGE AT SEA LEVEL

- (a) Working Voltage—d c or a c peak
 - Size 20 Contacts 700V (Voltage rating 1)
 - Size 16 Contacts 1200V (Voltage rating 2)
- (b) Proof Voltage—d c or a c peak
 - Size 20 Contacts 2100V (Voltage rating 1)
 - Size 16 Contacts 3000V (Voltage rating 2)

The establishment of electrical safety factors when the connector is used at other than the working voltage is the responsibility of the user

ENVIRONMENTAL RATINGS



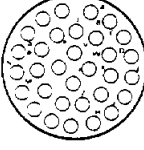
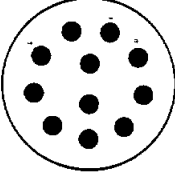



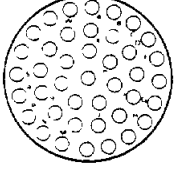
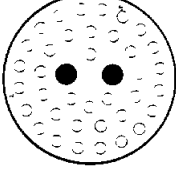



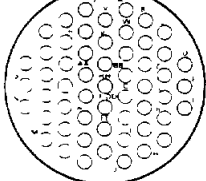


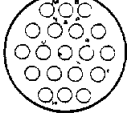
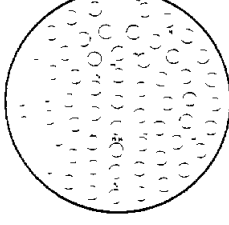
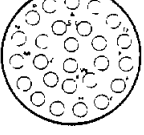
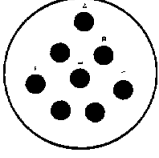
- (a) Shock Severity 981 m/s^2 ($100 g_n$) for 6 milliseconds
- (b) Vibration 10 Hz-5000 Hz, 0.75 mm/ $10 g_n$ duration 30 hours (including 1 hour at -55°C and 3 hours at 125°C)
- (c) Acceleration 490 m/s^2 ($50 g_n$)
- (d) Humidity Severity 44 millibars
- (e) Bump Severity 390 m/s^2 ($40 g_n$), 4000 ± 10 Bumps
- (f) Mechanical Endurance 500 matings
- (g) High Temperature
 - Long Term 1000 hours at 85°C
 - Short Term 250 hours at 125°C

Orientation

To prevent mismatching or cross-plugging, shell to shell key and keyway orientations are offered in normal (N) or any of four alternatives (B, C, E or F). Insert orientation, permissible in Pattern 105 connectors to enable replacement of existing MIL-C-26482 types, is available by special request

Contact Types

AB05 connectors are available with contacts suitable for solder, crimp or direct printed circuit board applications. For details see page 34 or Consult Factory

SHELL SIZE				SHELL SIZE		
8	 08-33 1	 08-04 1		18	 18-32 1	 18-11 2
10	 10-02 2	 10-06 1	 10-07 1	20	 20-41 1	 20-39† 1
12	 12-03 2	 12-08 1	 12-10 1	22	 22-55 1	
14	 14-05 2	 14-12 1	 14-19 1	24	 24-61 1	
16	 16-26 1	 16-8 2				<p>○ Size 20 Contacts</p> <p>● Size 16 Contact</p> <p>† Consult factory for availability</p>

CONTACT CURRENT RATINGS

CONTACT SIZE	MAXIMUM CURRENT	*RATED CURRENT
20 AWG	7.5A	5A
16 AWG	13A	10A

*Maximum working current per contact when all contacts are working simultaneously at 85°C ambient temperature

Selection Chart

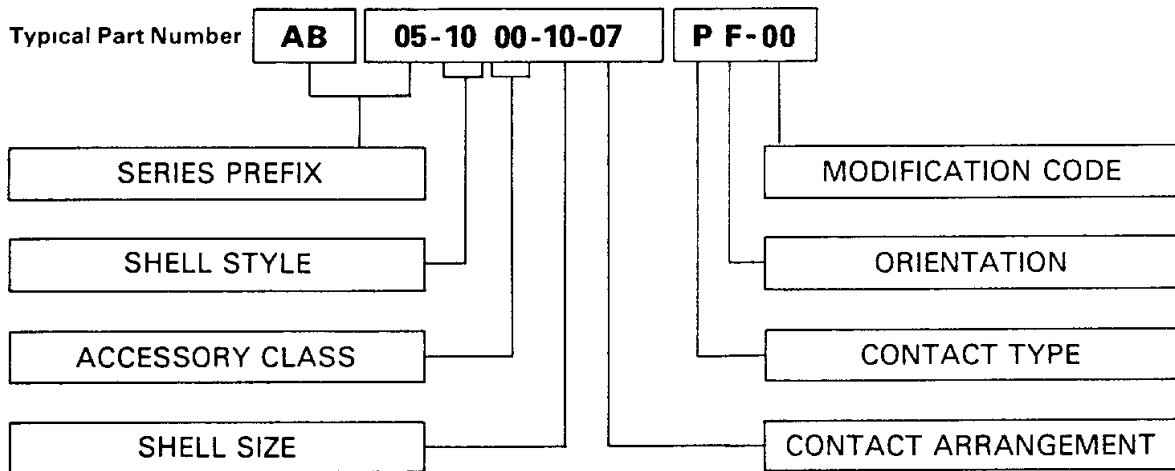
SHELL SIZE	CONTACT ARRANGEMENT	NO OF CONTACTS	CONTACT SIZE AND CURRENT RATING (AMPS) - AT 85°C AMBIENT		SHELL ORIENTATION	SERVICE RATING
			20	16		
08	33	3	3 × 5 amps.		N E F	1
08	04	4	4 × 5 amps.		N E F	1
10	02	2		2 × 10 amps.	N.B.C.E.F	2
10	06	6	6 × 5 amps		N B C E F	1
10	07	7	7 × 5 amps.		N B C E F	1
12	03	3		3 × 10 amps.	N.B.C.E.F	2
12	08	8	8 × 5 amps		N.B.C.E.F	1
12	10	10	10 × 5 amps		N.B.C.E.F	1
14	05	5		5 × 10 amps	N.B.C.E.F	2
14	12	12	8 × 5 amps	4 × 10 amps	N B C E F	1
14	19	19	19 × 5 amps.		N.B.C.E.F.	1
16	08	8		8 × 10 amps	N B C E F	2
16	26	26	26 × 5 amps		N B C E F	1
18	11	11		11 × 10 amps	N B C E F	2
18	32	32	32 × 5 amps		N.B.C.E.F	1
20	41	41	41 × 5 amps		N B C E F	1
20 [†]	39	39	37 × 5 amps	2 × 10 amps	N.B.C.E.F	1
22	55	55	55 × 5 amps		N B C E F	1
24	61	61	61 × 5 amps		N B C E F	1

† Consult factory for availability

	Sea level 1013 mbar		8,500 m (27,900 ft.) 300 mbar		20,000 m (66,000 ft.) 44 mbar	
	1	2	1	2	1	2
Service rating	1	2	1	2	1	2
Working voltage (nominal) d c or a c. peak	700	1200	550	650	330	380
Voltage proof d c. or a c peak	2100	3000	1100	1300	660	760

Part No. Explanation

CONNECTOR



Series Prefix — AB05 (Approved to BS 9522 F0017)

- Shell Style**
- 10 Cable Connecting Receptacle
 - 20 Square Flange Receptacle with Accessory Thread
 - 21 Square Flange Receptacle No Accessory Thread
 - 31 Jam Nut Receptacle No Accessory Thread
 - 32 Jam Nut Receptacle with External Accessory Thread
 - 60 Plug with Knurled Coupling Nut
 - 61 Plug with Knurled Coupling Nut and Spring Grounding Fingers
 - 62 Plug with Coarse Ribbed Coupling Nut
 - 63 Plug with Coarse Ribbed Coupling Nut and Spring Grounding Fingers

- Accessory Class**
- 00 No Accessory
 - 27 Strain Relief Clamp
 - 29 Straight Outlet Internally Screened
 - 30 Straight Outlet Externally Screened
 - 40 Grommet Nut
 - 50 General Duty Adaptor (No Grommet Necessary)
 - 55 Sealing Gland (No Grommet Necessary)

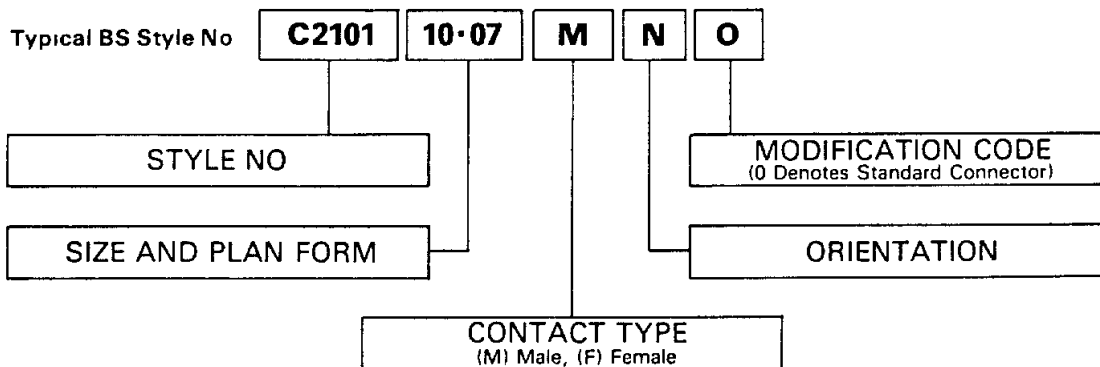
Shell Size — 08, 10, 12, 14, 16, 18, 20, 22, 24
(Increase in Sixteenths of an Inch)

Contact Arrangement — See Selection Chart, Page 5







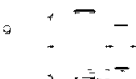
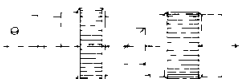




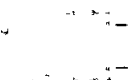
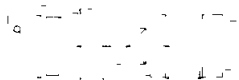

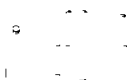
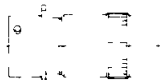

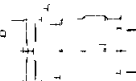
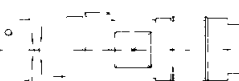

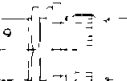



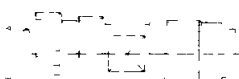
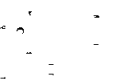
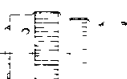


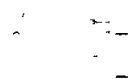
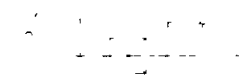
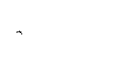
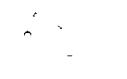
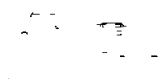
Contact Type — P Pin
S Socket



Orientation — Key/Key Way N B C E F
(Insert Orientation available only for replacement of MIL-C-26482 Types Please consult factory)

- Modification**
- 00 Solder Contacts
 - 01 Crimp Contacts (Max Conductor C S A 0 55 mm² Insulator Dia Max 2 16 mm Min 1 52 mm)
 - 03 P C B Contact 0 73 ± 0 025/2 mm
 - 04 P C B Contact 0 73 ± 0 025/5 mm
 - 15 No Contacts
 - 19 Silver Cad Plated Shell, Gold Flash on Crimp Contacts
 - 20 Silver Cad Plated Shell, Gold Flash on Solder Contacts
 - 21 Anodised Black DEF 151 Type 1
 - 31 Silver Plated Contacts Solder Style
 - 43 Silver Cad Plated Shell, Gold Flash on PCB Contacts
 - 60 Ink Marked Insert Rears
- For additional modifications and special requirements please consult factory



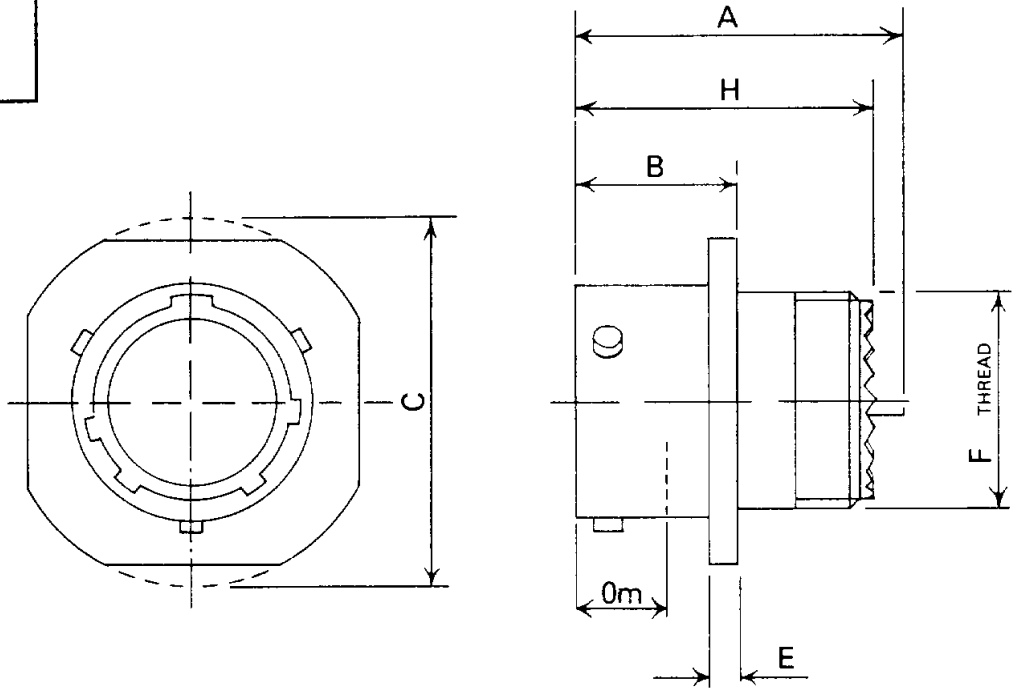
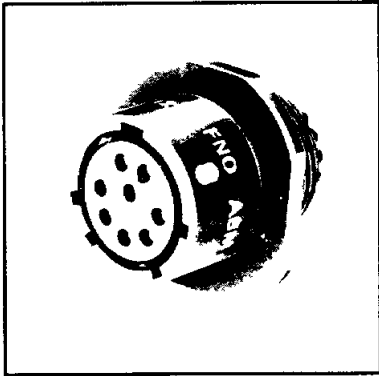
Connector Assemblies

Accessory Class Shell Style	 AB05 0027 Strain relief clamp	 AB05 0029 (Type A & C Cables) AB05 0030 (Type B & D Cables) Outlet straight	 AB05 0040 Plain Grommet nut	 AB05-0050- General duty adapter no grommet supplied	 AB05 0055 Sealing gland no grommet necessary
 AB05-1000 Receptacle cable connecting	 AB05 1027	 AB05 1029- AB05 1030	 AB05 1040	 AB05-1050	 AB05-1055-
 AB05-2000- Receptacle square flange with accessory thread	 AB05 2027-	 AB05-2029- AB05-2030	 AB05 2040	 AB05-2050-	 AB05-2055-
 AB05-3200- Receptacle jam nut with external accessory thread	 AB05-3227-	 AB05-3229 AB05-3230	 AB05 3240-	 AB05-3250-	 AB05-3255-
 AB05 6000/6100 Plug, knurled coupling nut/grounding spring	 AB05 6027/6127	 AB05 6029/6129 AB05 6030/6130	 AB05 6040/6140	 AB05 6050/6150	 AB05 6055/6155
 AB05 6200/6300 Plug, coarse ribbed coupling nut/grounding spring	 AB05 6227/6327	 AB05 6229/6329 AB05 6230/6330	 AB05 6240/6340	 AB05 6250/6350	 AB05 6255/6355

 AB05-2100- Receptacle square flange no provision for accessory	 AB05 3100- Receptacle jam nut no provision for accessory
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ACCESSORIES ARE SUPPLIED COMPLETE WITH ALL NECESSARY GROMMETS ETC EXCEPT WHERE STATED

AB Style:—AB05-1000 Cable Connecting Receptacle
 BS Style:—C2101

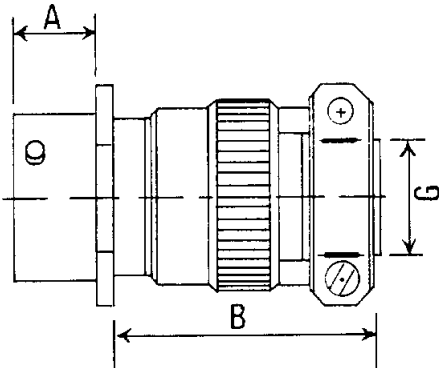


— Metric — Imperial

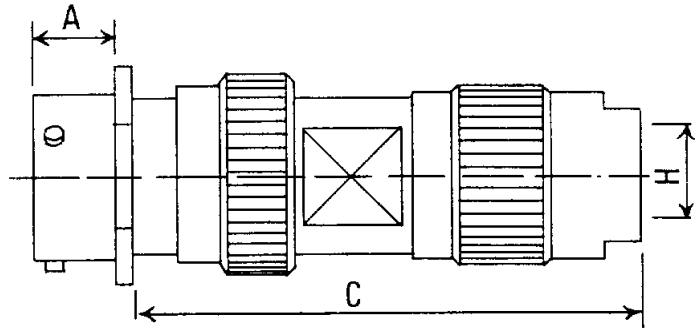
HOUSING (SHELL) SIZE	A max	B max	ϕ C max	E max	F thread	H max	Om min	MASS
					UNEF 2A		OVERLAP	MAX. G
08	26.4	13.8	24.4	2.8	$\frac{7}{16}$ -28	26.0	7.3	8
	1.04	0.54	0.96	0.11		1.02	0.29	
10	26.4	13.8	27.7	2.8	$\frac{9}{16}$ -24	26.0	7.3	13
	1.04	0.54	1.09	0.11		1.02	0.29	
12	26.4	13.8	30.0	2.8	$1\frac{1}{16}$ -24	26.0	7.3	17
	1.04	0.54	1.18	0.11		1.02	0.29	
14	26.4	13.8	32.3	2.8	$1\frac{3}{16}$ -20	26.0	7.3	24
	1.04	0.54	1.27	0.11		1.02	0.29	
16	26.4	13.8	34.8	2.8	$1\frac{5}{16}$ -20	26.0	7.3	30
	1.04	0.54	1.37	0.11		1.02	0.29	
18	26.4	13.8	37.1	2.8	$1\frac{7}{16}$ -18	26.0	7.3	37
	1.04	0.54	1.46	0.11		1.02	0.29	
20	30.4	17.8	40.4	3.3	$1\frac{3}{8}$ -18	28.5	8.9	59
	1.20	0.70	1.59	0.13		1.12	0.35	
22	30.4	17.8	43.4	3.3	$1\frac{5}{8}$ -18	28.5	8.9	72
	1.20	0.70	1.71	0.13		1.12	0.35	
24	30.4	18.6	46.7	3.3	$1\frac{7}{8}$ -18	30.0	8.9	85
	1.20	0.73	1.84	0.13		1.13	0.35	

* Please consult factory

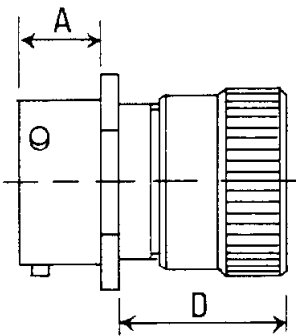
AB05-1027



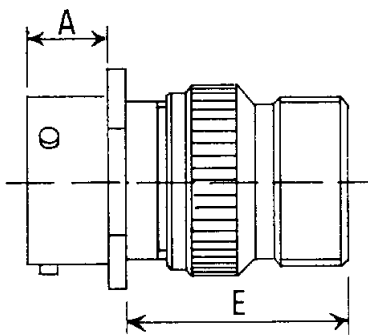
AB05-1029 (Type A & C Cables)
AB05-1030 (Type B & Q Cables)



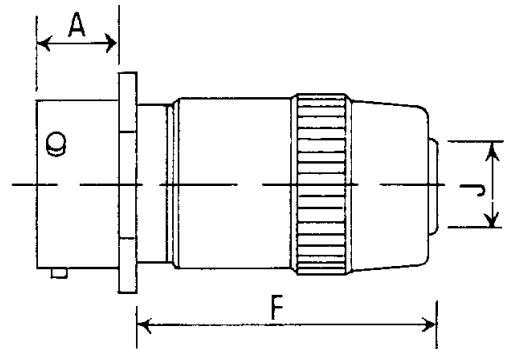
AB05-1040



AB05-1050



AB05-1055

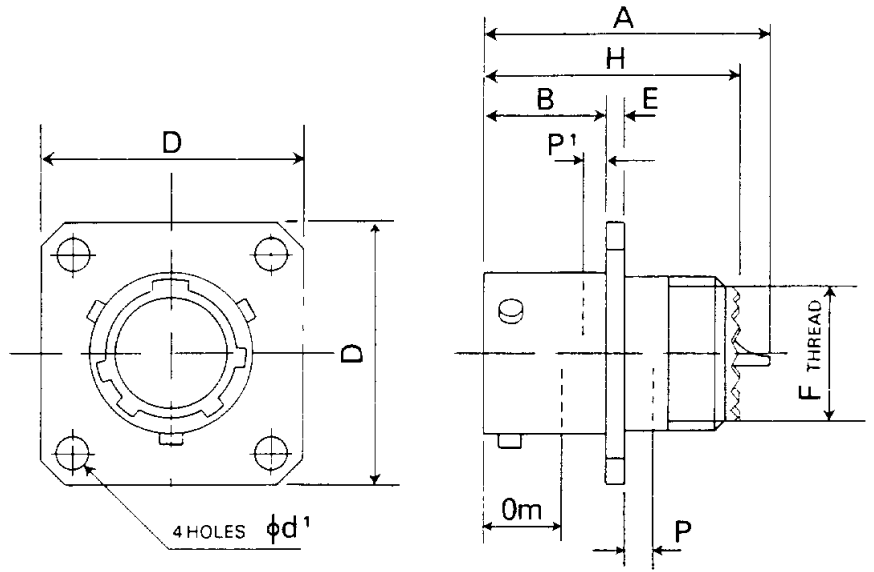
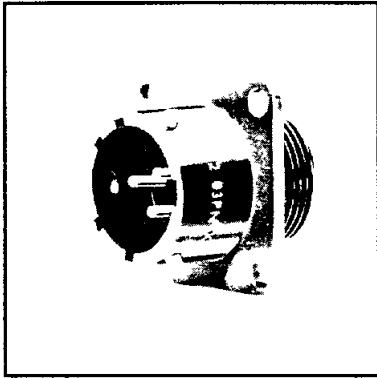


-Metric
 -Imperial

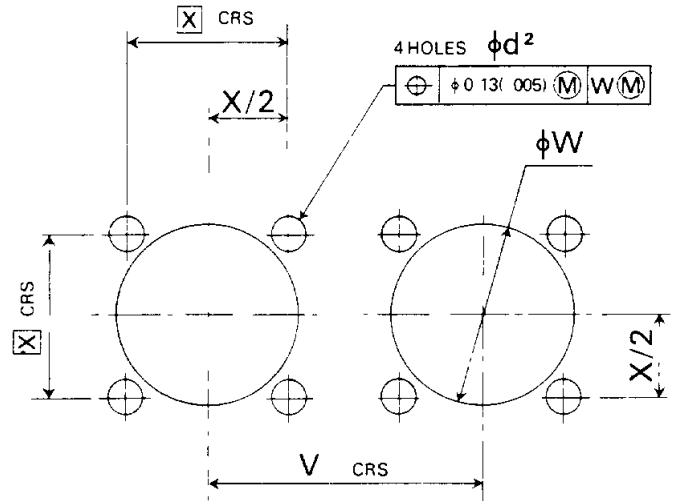
SHELL SIZE	A max	B	C for AB05 1029	C for AB05 1030	D	E	F	CABLE DIA ϕ MAX	CABLE ϕ H MAX.	CABLE ϕ J MAX
08	11-00	38-68	61-23	60-98	23-57	28-70	33-40	4-06	9-09	5-84
	0-433	1-523	2-411	2-401	0-928	1-130	1-315	0-160	0-358	0-230
10	11-00	38-68	61-49	61-06	23-57	28-70	33-40	5-02	9-09	7-92
	0-433	1-523	2-421	2-404	0-928	1-130	1-315	0-198	0-358	0-312
12	11-00	38-68	72-28	71-95	23-57	28-70	35-68	8-30	12-09	11-22
	0-433	1-523	2-846	2-833	0-928	1-130	1-405	0-327	0-476	0-442
14	11-00	38-68	71-70	71-83	23-57	28-70	33-98	9-77	13-20	13-69
	0-433	1-523	2-823	2-828	0-928	1-130	1-535	0-385	0-520	0-539
16	11-00	40-71	75-21	74-26	23-57	28-70	44-95	12-95	14-73	15-59
	0-433	1-603	2-961	2-924	0-928	1-130	1-770	0-510	0-580	0-614
18*										
20	14-50	43-58	74-77	*	22-50	28-42	53-67	16-12	17-24	18-89
	0-570	1-716	2-944		0-886	1-119	2-113	0-635	0-679	0-744
22*										
24	15-30	43-71	83-56	*	21-86	27-78	59-38	20-57	21-10	22-70
	0-602	1-721	3-290		0-861	1-094	2-338	0-810	0-831	0-894

* Please consult factory

AB Style:—AB05-2000 Receptacle, Square Flange with Accessory Thread BS Style:—C2096



PANEL CUT-OUT DETAILS



*P MAX PANEL THICKNESS—3.3 (0.13)

P¹ MIN — CLEARANCE DISTANCE FOR MATING CONNECTOR

SIZE 8 TO 18—2.0 (0.08)

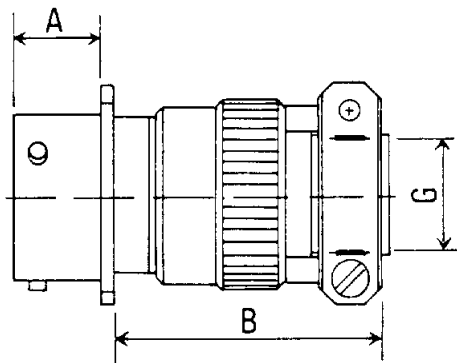
SIZE 20 TO 24—5.3 (0.21)

*P MAY BE INCREASED IF W' IS ENLARGED TO CLEAR ACCESSORY

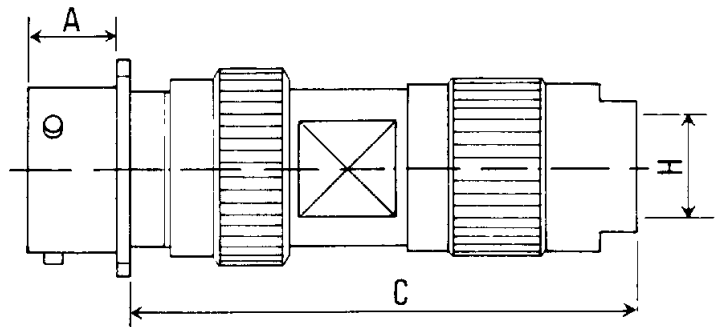
— Metric — Imperial

HOUSING (SHELL) SIZE	A _{max}	B _{max}	D	E _{max}	F _{thread}	H _{max}	O _m min	φ d ¹	φ d ²	V _{min}	φ W	X (TP)	MASS MAX. G
			sq max		UNEF 2A		OVERLAP	min	min		±0.13(0.05)		
08	26.4	11.8	21.1	2.0	7/16 -28	26.0	7.3	3.05	3.25	22.6	14.43	15.09	10
	1.04	0.46	0.83	0.08		1.02	0.29	0.12	0.128	0.89	0.568	0.594	
10	26.4	11.8	24.4	2.0	9/16 -24	26.0	7.3	3.05	3.25	25.4	17.40	18.26	13
	1.04	0.46	0.96	0.08		1.02	0.29	0.12	0.128	1.00	0.685	0.719	
12	26.4	11.8	26.7	2.0	1 1/16 -24	26.0	7.3	3.05	3.25	29.7	21.95	20.62	16
	1.04	0.46	1.05	0.08		1.02	0.29	0.12	0.128	1.17	0.884	0.812	
14	26.4	11.8	29.3	2.0	1 3/16 -20	26.0	7.3	3.05	3.25	33.0	25.12	23.01	22
	1.04	0.46	1.15	0.08		1.02	0.29	0.12	0.128	1.30	0.989	0.906	
16	26.4	11.8	31.5	2.0	1 5/16 -20	26.0	7.3	3.05	3.25	38.1	28.27	24.61	27
	1.04	0.46	1.24	0.08		1.02	0.29	0.12	0.128	1.50	1.113	0.969	
18	26.4	11.8	33.8	2.0	1 7/16 -18	26.0	7.3	3.05	3.25	40.9	31.45	26.97	38
	1.04	0.46	1.33	0.08		1.02	0.29	0.12	0.128	1.61	1.238	1.062	
20	30.4	15.0	37.1	2.8	1 7/8 -18	28.5	8.9	3.05	3.25	43.9	34.62	29.36	52
	1.20	0.59	1.46	0.11		1.12	0.35	0.12	0.128	1.73	1.363	1.156	
22	30.4	15.0	40.2	2.8	1 9/16 -18	28.5	8.9	3.05	3.25	46.7	37.80	31.75	65
	1.20	0.59	1.58	0.11		1.12	0.35	0.12	0.128	1.84	1.488	1.250	
24	30.4	15.8	43.5	2.8	1 7/8 -18	30.0	8.9	3.73	3.86	50.0	41.02	34.93	77
	1.20	0.62	1.71	0.11		1.18	0.35	0.147	0.152	1.97	1.615	1.375	

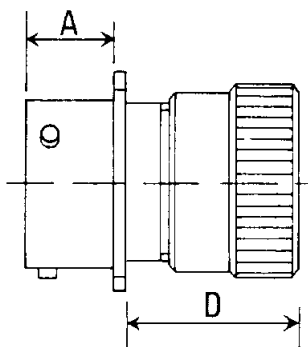
AB05-2027



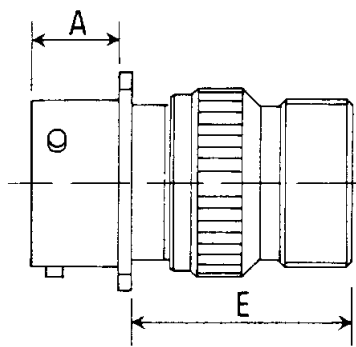
AB05-2029 (Type A & C Cables)
AB05-2030 (Type B & Q Cables)



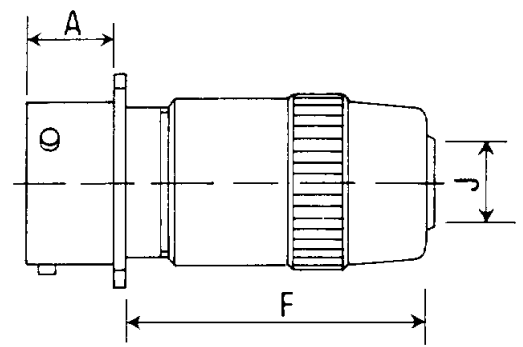
AB05-2040



AB05-2050



AB05-2055

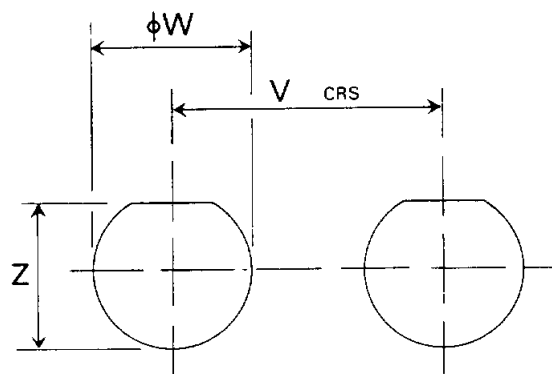
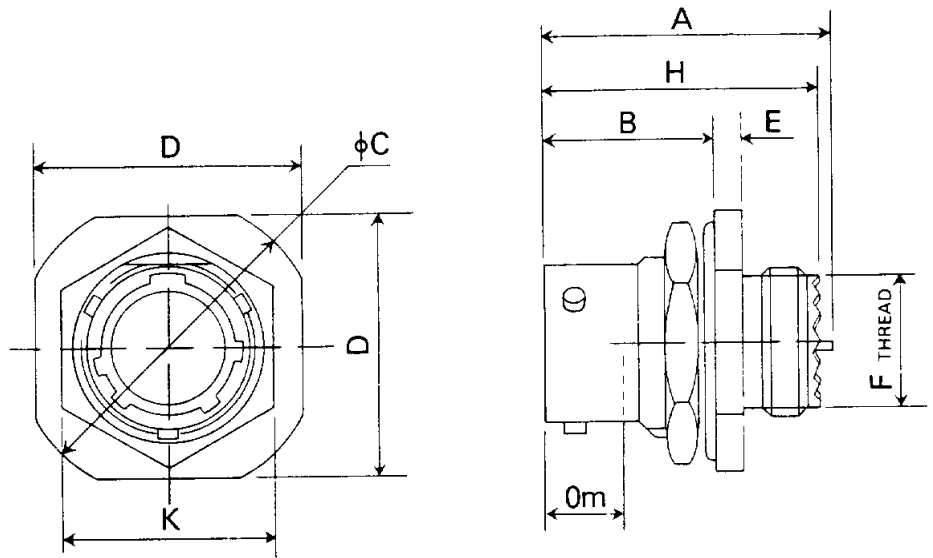
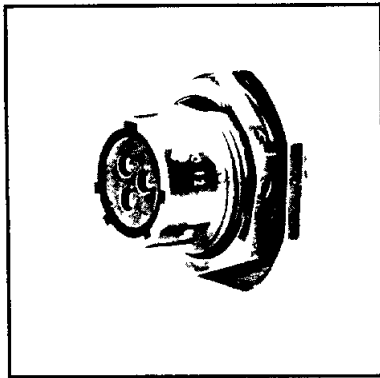


- Metric - Imperial

SHELL SIZE	A max	B	C for AB05 0029	C for AB05 0030	D	E	F	CABLE ϕ G MAX	CABLE ϕ H MAX	CABLE ϕ J MAX.
08	11-80	38-68	61-23	60-98	23-57	28-70	33-40	4-06	9-09	5-84
	0-464	1-523	2-411	2-401	0-928	1-130	1-315	0-160	0-358	0-230
10	11-80	38-68	61-49	61-06	23-57	28-70	33-40	5-02	9-09	7-92
	0-464	1-523	2-421	2-404	0-928	1-130	1-315	0-192	0-358	0-321
12	11-80	38-68	72-28	71-95	23-57	28-70	35-68	8-30	12-09	11-22
	0-464	1-523	2-846	2-833	0-928	1-130	1-405	0-327	0-476	0-442
14	11-80	38-68	71-78	71-83	23-57	28-70	38-98	9-77	13-20	13-69
	0-464	1-523	2-826	2-828	0-928	1-130	1-535	0-385	0-520	0-539
16	11-80	40-71	75-20	74-26	23-57	28-70	44-95	12-95	14-73	15-59
	0-464	1-603	2-961	2-924	0-928	1-130	1-770	0-510	0-580	0-614
18*										
20	15-00	43-58	74-77	*	22-50	28-42	53-67	16-12	17-24	18-89
	0-590	1-716	2-944		0-886	1-119	2-113	0-635	0-679	0-744
22*										
24	15-80	43-58	83-43	*	21-74	27-66	59-25	20-57	21-10	22-70
	0-622	1-716	3-285		0-856	1-089	2-333	0-810	0-831	0-894

* Please consult factory

AB Style:—AB05-3200 Receptacle, Jam Nut with External Accessory Thread BS Style:—C2100

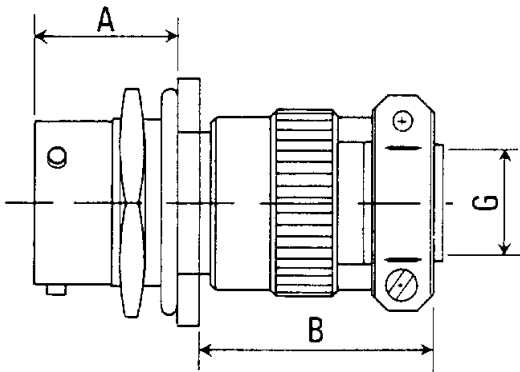


PANEL CUT-OUT DETAILS

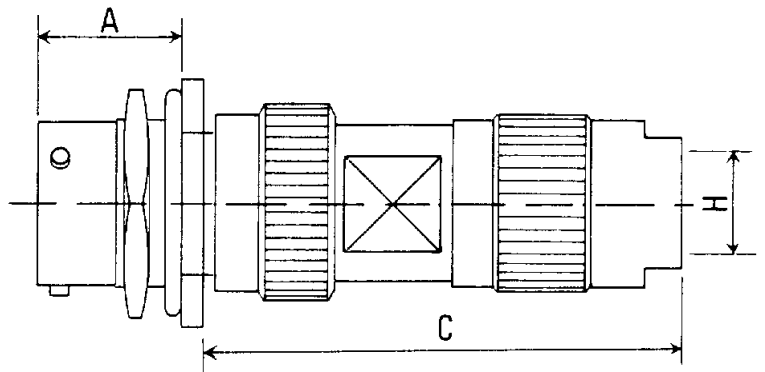
— Metric — Imperial

HOUSING (SHELL) SIZE	A _{max}	B _{max}	ϕC max	D _{max}	E _{max}	F _{THREAD} UNE-F-2A	H _{max}	K _{max}	O _{m min} OVERLAP	PANEL THICKNESS		V	ϕW $\pm 0.131(0.005)$	Z $\pm 0.131(0.005)$	MASS MAX G
										max	min				
08	26.4	15.8	27.5	24.4	3.6	$\frac{7}{16}$ -28	26.0	19.6	7.3	3.3	1.50	24.7	14.53	13.72	21
	1.04	0.62	1.08	0.96	0.14		1.02	0.77	0.29	0.13	0.06	0.97	0.572	0.540	
10	26.4	15.8	30.8	27.5	3.6	$\frac{9}{16}$ -24	26.0	22.9	7.3	3.3	1.50	28.0	17.70	16.89	27
	1.04	0.62	1.21	1.08	0.14		1.02	0.90	0.29	0.13	0.06	1.10	0.697	0.666	
12	26.4	15.8	35.6	32.3	3.6	$1\frac{1}{16}$ -24	26.0	27.5	7.3	3.3	1.50	32.8	22.48	21.03	32
	1.04	0.62	1.40	1.27	0.14		1.02	1.08	0.29	0.13	0.06	1.29	0.885	0.628	
14	26.4	15.8	38.7	35.6	3.6	$1\frac{3}{16}$ -20	26.0	30.8	7.3	3.3	1.50	35.9	25.65	24.18	47
	1.04	0.62	1.82	1.40	0.14		1.02	1.21	0.29	0.13	0.06	1.41	1.010	0.952	
16	26.4	15.8	42.0	38.7	3.6	$1\frac{5}{16}$ -20	26.0	33.8	7.3	3.3	1.50	39.2	28.03	27.33	58
	1.04	0.62	1.65	1.52	0.14		1.02	1.33	0.29	0.13	0.06	1.54	1.135	1.076	
18	26.4	15.8	45.0	42.0	3.6	$1\frac{7}{16}$ -18	26.0	37.1	7.3	3.3	1.50	43.0	32.00	30.61	62
	1.04	0.62	1.77	1.65	0.14		1.02	1.46	0.29	0.13	0.06	1.69	1.260	1.205	
20	30.4	19.6	49.6	46.5	3.6	$1\frac{3}{8}$ -18	28.5	40.2	8.9	6.4	1.50	47.8	35.18	33.73	84
	1.30	0.77	1.95	1.83	0.14		1.12	1.58	0.35	0.25	0.06	1.88	1.385	1.328	
22	30.4	19.6	52.9	49.8	4.4	$1\frac{5}{8}$ -18	28.5	43.5	8.9	6.4	1.50	50.8	38.35	36.81	98
	1.30	0.77	2.08	1.96	0.17		1.12	1.71	0.35	0.25	0.06	2.00	1.510	1.449	
24	30.4	20.9	56.7	52.9	4.4	$1\frac{7}{8}$ -18	30.0	46.5	8.9	6.4	1.50	54.2	41.53	40.03	116
	1.30	0.82	2.21	2.08	0.17		1.18	1.63	0.35	0.25	0.06	2.13	1.635	1.576	

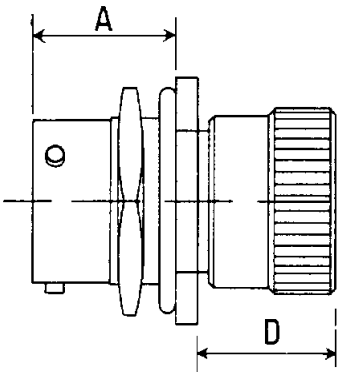
AB05-3227



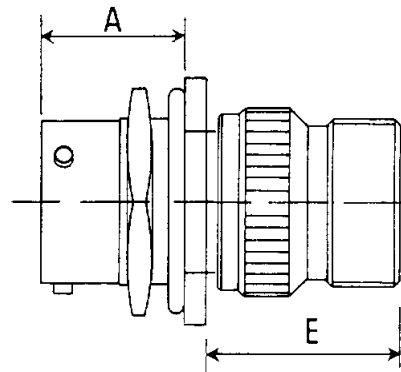
AB05-3229 (Type A & C Cables)
AB05-3230 (Type B & Q Cables)



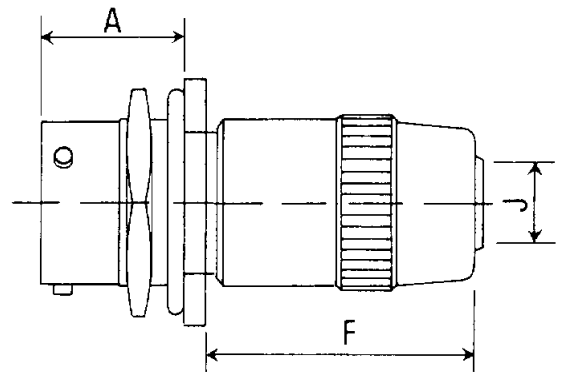
AB05-3240



AB05-3250



AB05-3255

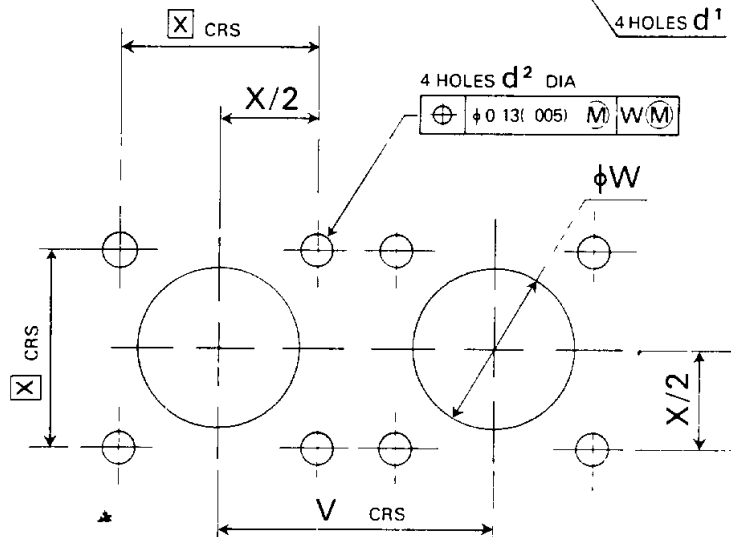
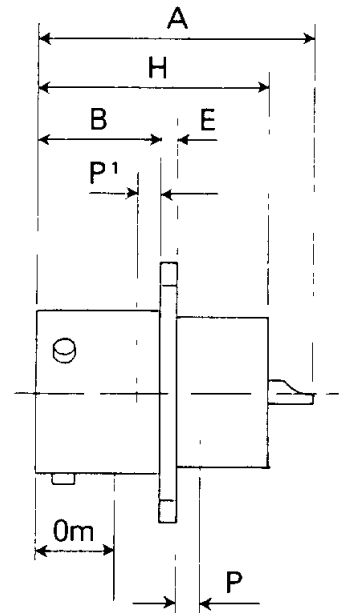
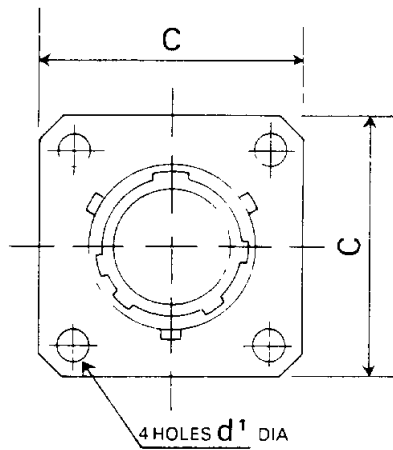
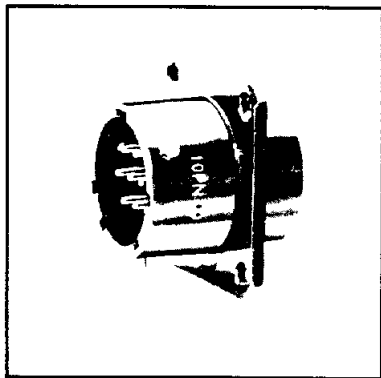


- Metric - Imperial

SHELL SIZE	A max	B	C for AB05 0029	C for AB05 0030	D	E	F	CABLE ϕ G MAX	CABLE ϕ H MAX	CABLE ϕ J MAX.
08	15-80	33-68	56-23	55-98	18-56	23-69	28-39	4-06	9-09	5-84
	0-622	1-326	2-214	2-204	0-731	0-933	1-118	0-160	0-358	0-230
10	15-80	33-68	56-48	56-05	18-56	23-69	28-39	5-02	9-09	7-92
	0-622	1-326	2-224	2-207	0-731	0-933	1-118	0-192	0-358	0-321
12	15-80	33-68	67-28	66-95	18-56	23-69	30-68	8-30	12-09	11-22
	0-622	1-326	2-649	2-636	0-731	0-933	1-208	0-327	0-476	0-442
14	15-80	33-68	66-77	66-82	18-56	23-69	33-98	9-77	13-20	13-69
	0-622	1-326	2-629	2-631	0-731	0-933	1-338	0-385	0-520	0-539
16	15-80	35-71	70-20	57-07	18-56	23-69	39-95	12-95	14-73	15-59
	0-622	1-406	2-764	2-727	0-731	0-933	1-573	0-510	0-580	0-614
18*										
20	19-60	38-10	69-29	*	17-02	24-58	48-18	16-12	17-17	17-06
	0-771	1-500	2-728		0-670	0-968	1-897	0-635	0-676	0-672
22*										
24	20-90	37-97	77-82	*	15-31	23-69	53-64	20-57	21-10	22-70
	0-822	1-495	3-064		0-603	0-933	2-112	0-810	0-831	0-894

* Please consult factory

AB Style:—AB05-2100 Receptacle, Square Flange, No Provision for Accessory BS Style:—C2097



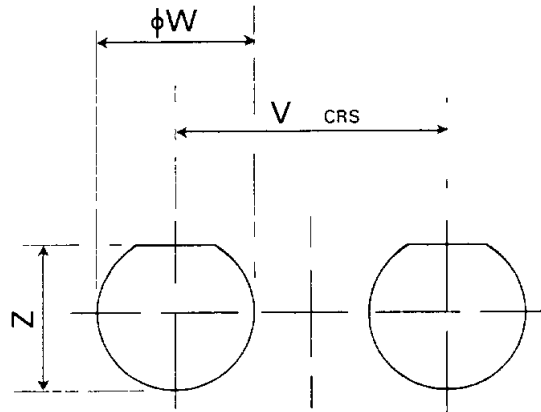
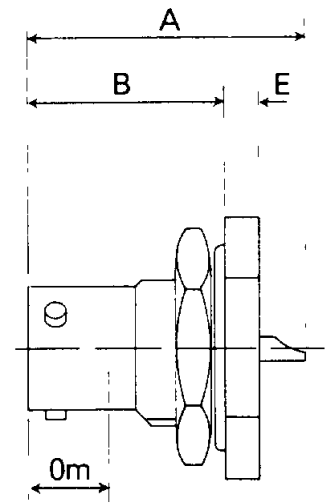
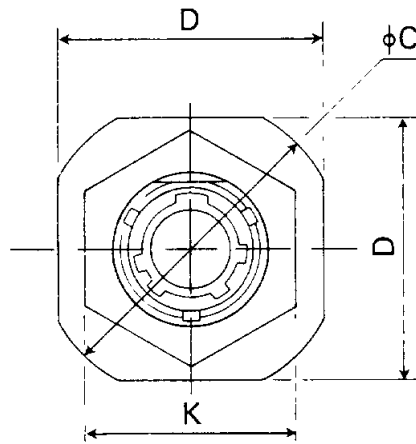
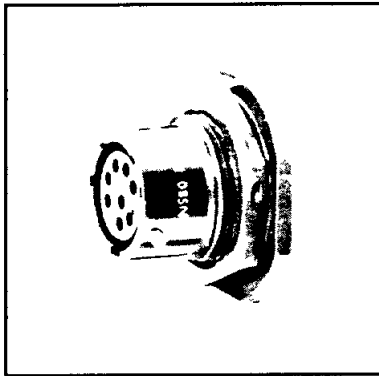
PANEL CUT OUT DETAILS

P = PANEL THICKNESS (FRONT MOUNTING)
P¹ = PANEL THICKNESS (REAR MOUNTING)

 — Metric — Imperial

HOUSING (SHELL) SIZE	A _{max}	B _{max}	C _{max}	E _{max}	H _{max}	V _{CRS}	φW	X _{CRS}	d ¹ _{dia}	d ² _{dia}	O _m min	P _{max}	P ¹ _{max}	MASS MAX. G
						min	min	(TP)	$\pm 0.13(0.005)$	$\pm 0.13(0.005)$	OVERLAP			
08	26.4	11.7	21.1	2.0	21.6	22.6	14.43	15.09	3.05	3.12	7.3	8.5	2.21	10
	1.04	0.46	0.83	0.08	0.85	0.89	0.568	0.594	0.120	0.123	0.29	0.37	0.87	
10	26.4	11.7	24.3	2.0	21.6	25.4	17.40	18.26	3.05	3.12	7.3	8.5	2.21	13
	1.04	0.46	0.96	0.08	0.85	1.00	0.685	0.719	0.120	0.123	0.29	0.37	0.87	
12	26.4	11.7	26.6	2.0	21.6	29.7	21.95	20.62	3.05	3.12	7.3	8.5	2.21	18
	1.04	0.46	1.05	0.08	0.85	1.17	0.884	0.812	0.120	0.123	0.29	0.37	0.87	
14	26.4	11.7	29.0	2.0	21.6	33.0	25.12	23.01	3.05	3.12	7.3	8.5	2.21	24
	1.04	0.46	1.15	0.08	0.85	1.30	0.989	0.906	0.120	0.123	0.29	0.37	0.87	
16	26.4	11.7	31.5	2.0	21.6	38.1	28.27	24.61	3.05	3.12	7.3	8.5	2.21	30
	1.04	0.46	1.24	0.08	0.85	1.50	1.113	0.969	0.120	0.123	0.29	0.37	0.87	
18	26.4	11.7	33.8	2.0	21.6	40.9	31.45	26.97	3.05	3.12	7.3	8.5	2.21	39
	1.04	0.46	1.33	0.08	0.85	1.61	1.238	1.062	0.120	0.123	0.29	0.37	0.87	
20	30.4	14.8	37.1	2.8	27.2	43.9	34.62	29.36	3.05	3.12	8.9	8.5	5.38	55
	1.20	0.58	1.46	0.11	1.07	1.73	1.363	1.156	0.120	0.123	0.35	0.37	0.212	
22	30.4	14.8	40.2	2.8	27.2	46.7	37.80	31.75	3.05	3.12	8.9	8.5	5.38	65
	1.20	0.58	1.59	0.11	1.07	1.84	1.488	1.250	0.120	0.123	0.35	0.37	0.212	
24	30.4	15.7	43.5	2.8	28.6	50.0	41.02	34.93	3.73	3.81	8.9	8.5	5.38	77
	1.20	0.62	1.71	0.11	1.13	1.97	1.615	1.375	0.147	0.150	0.35	0.37	0.212	

AB Style:—AB05-3100 Receptacle, Jam Nut, No Provision for Accessory BS Style:—C2099



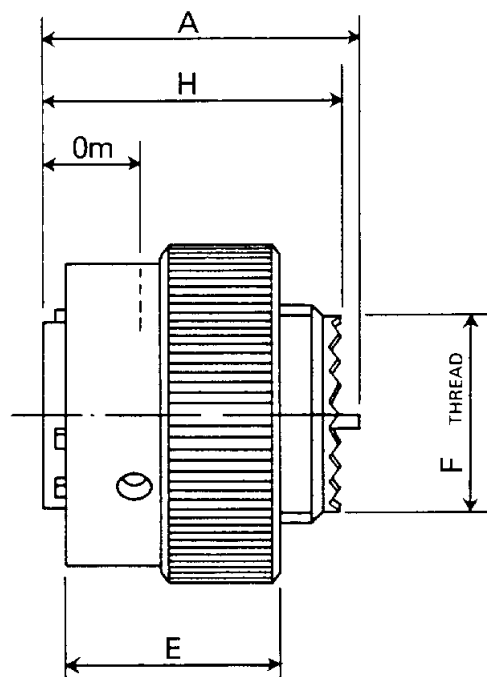
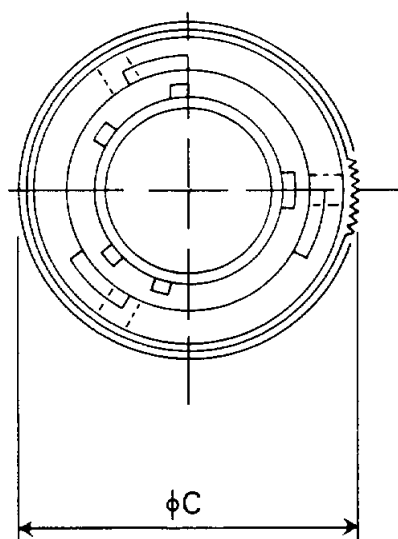
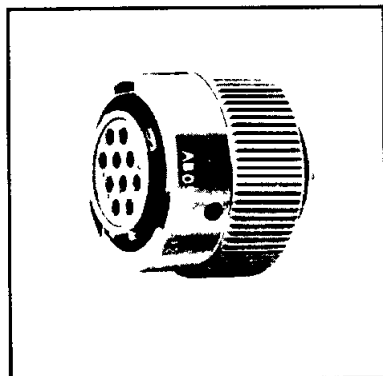
PANEL CUT-OUT DETAILS

—Metric —Imperial

HOUSING (SHELL) SIZE	A _{max}	B _{max}	φC _{max}	D _{max}	E _{max}	K _{max}	V _{min.}	φW	Z	O _m min	PANEL THICKNESS		MASS MAX. G
											OVERLAP	max.	
08	26.4	18.6	27.5	24.4	3.6	19.6	24.7	14.53	13.72	7.30	3.30	1.50	17
	1.04	0.73	1.08	0.96	0.14	0.77	0.97	0.572	0.540	0.29	0.13	0.06	
10	26.4	18.6	30.8	27.5	3.6	22.9	28.0	17.70	16.69	7.30	3.30	1.50	20
	1.04	0.73	1.21	1.08	0.14	0.90	1.10	0.697	0.656	0.29	0.13	0.06	
12	26.4	18.6	35.6	32.3	3.6	27.5	32.8	22.48	21.03	7.30	3.30	1.50	24
	1.04	0.73	1.40	1.27	0.14	1.08	1.29	0.885	0.828	0.29	0.13	0.06	
14	26.4	18.6	38.7	35.6	3.6	30.8	35.9	25.65	24.18	7.30	3.30	1.50	34
	1.04	0.73	1.52	1.40	0.14	1.21	1.41	1.010	0.952	0.29	0.13	0.06	
16	26.4	18.6	42.0	38.7	3.6	33.8	39.2	28.83	27.33	7.30	3.30	1.50	43
	1.04	0.73	1.65	1.52	0.14	1.33	1.54	1.135	1.076	0.29	0.13	0.06	
18	26.4	18.6	45.0	42.0	3.6	37.1	43.0	32.00	30.61	7.30	3.30	1.50	47
	1.04	0.73	1.77	1.65	0.14	1.46	1.69	1.260	1.205	0.29	0.13	0.06	
20	30.4	23.1	49.8	46.5	4.4	40.2	47.8	35.18	33.73	8.90	6.40	1.50	63
	1.20	0.91	1.96	1.83	0.17	1.58	1.88	1.385	1.328	0.35	0.25	0.06	
22	30.4	23.1	52.9	49.8	4.4	49.5	50.8	38.35	36.81	8.90	6.40	1.50	74
	1.20	0.91	2.08	1.96	0.17	1.71	2.00	1.510	1.449	0.35	0.25	0.06	
24	30.4	24.1	56.2	52.9	4.4	46.5	54.2	41.53	40.03	8.90	6.40	1.50	87
	1.20	0.95	2.21	2.09	0.17	1.83	2.13	1.635	1.576	0.35	0.25	0.06	

AB Style:—AB05-6000 Plug, Knurled Coupling Nut

BS Style:—C2092

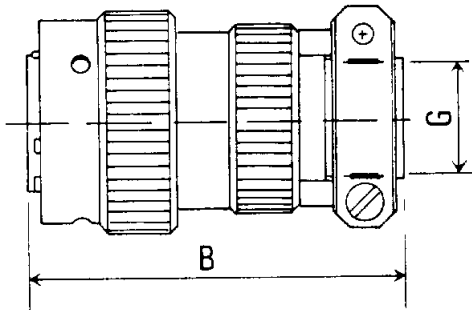


—Metric —Imperial

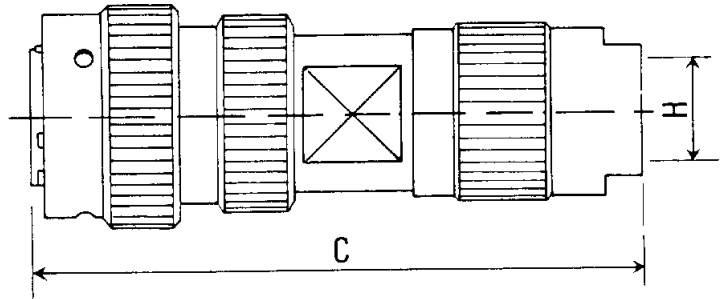
HOUSING (SHELL) SIZE	A max	ϕC max	E max	F thread	H max	O _m min	MASS MAX. G
				UNEF 2A		OVERLAP	
08	25.4	19.1	19.3	7/16 -28	24.4	7.3	12
	1.00	0.75	0.76		0.96	0.29	
10	25.4	21.8	19.3	9/16 -24	24.4	7.3	15
	1.00	0.86	0.76		0.96	0.29	
12	25.4	26.4	19.3	1 1/16 -24	24.4	7.3	20
	1.00	1.04	0.76		0.96	0.29	
14	25.4	30.0	19.3	1 3/16 -20	24.4	7.3	27
	1.00	1.10	0.76		0.96	0.29	
16	25.4	33.3	19.3	1 5/16 -20	24.7	7.3	35
	1.00	1.31	0.76		0.97	0.29	
18	25.4	35.6	19.3	1 7/16 -18	24.9	7.3	45
	1.00	1.40	0.76		0.98	0.29	
20	27.8	39.1	19.3	1 3/8 -18	26.2	8.9	56
	1.10	1.54	0.76		1.03	0.35	
22	27.8	42.2	19.3	1 5/8 -18	26.2	8.9	65
	1.10	1.66	0.76		1.03	0.35	
24	27.8	45.2	20.4	1 7/8 -18	28.0	8.9	80
	1.10	0.78	0.80		1.10	0.35	

* Please consult factory

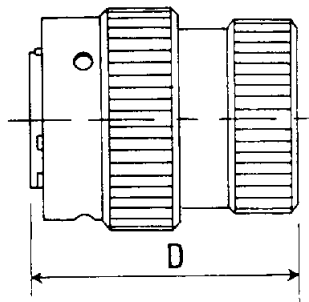
AB05 6027



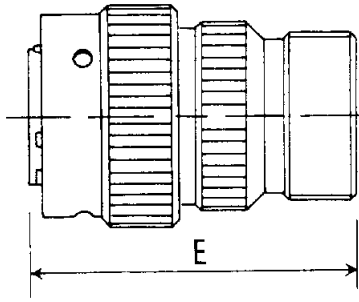
AB05 6029 (Type A & C Cables)
AB05 6030 (Type B & Q Cables)



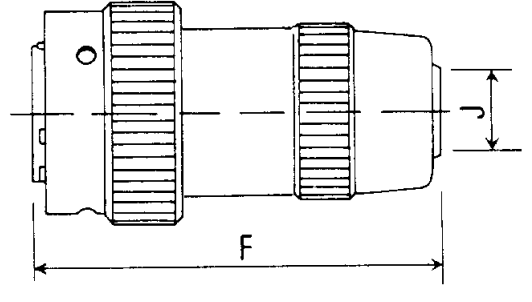
AB05 6040



AB05 6050



AB05 6055

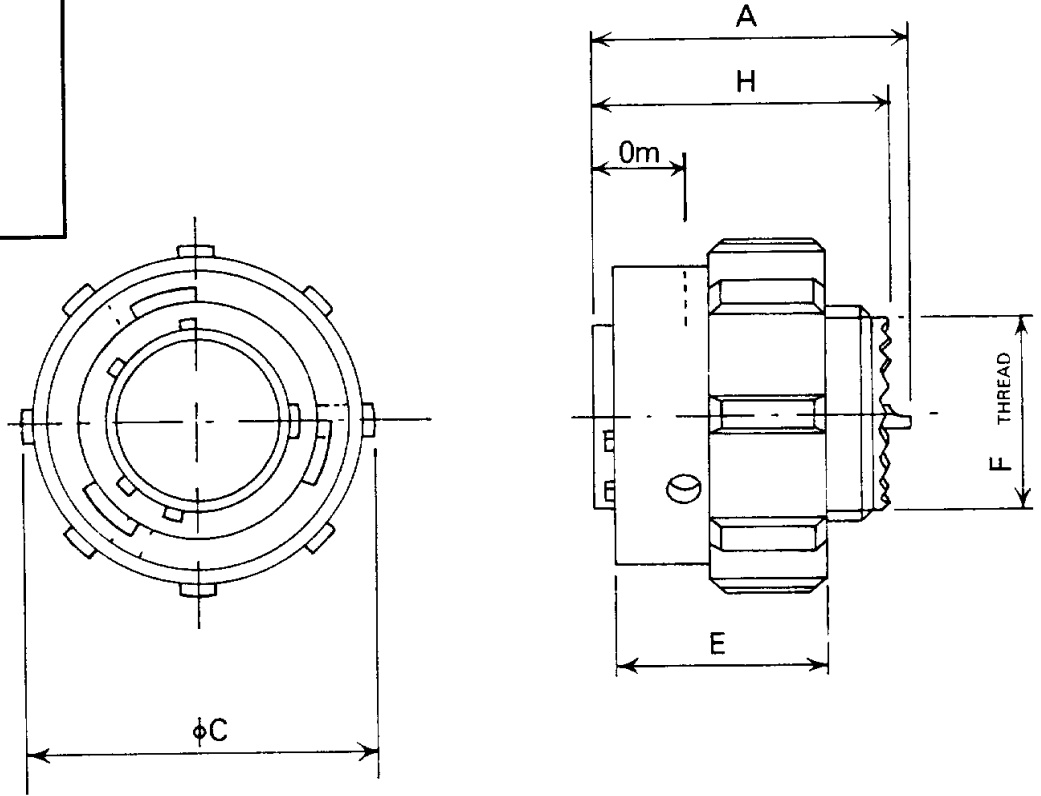
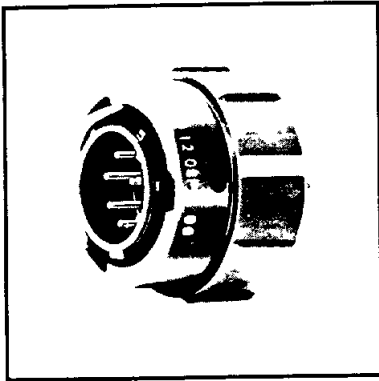


—Metric —Imperial

SHELL SIZE	B	C for AB05 0029	C for AB05 0030	D	E	F	CABLE ϕ G MAX.	CABLE ϕ H MAX.	CABLE ϕ J MAX.
08	51-33	73-88	73-63	36-22	41-35	46-05	4-06	9-09	5-84
	2 021	2-909	2-899	1-426	1-628	1-813	0 160	0-358	0 230
10	51-33	74-14	73-71	36-22	41-35	46-05	5-02	9-09	7-92
	2-021	2-919	2-902	1-426	1 628	1-813	0 192	0-358	0-321
12	51-33	84-93	84-60	36-22	41-35	48-33	8-30	12-09	11-22
	2-021	3-344	3 331	1-426	1-628	1-903	0-327	0-476	0-442
14	51-33	84-42	84-48	36-22	41-35	51-63	9-77	13-20	13-69
	2-021	3-324	3 326	1-426	1-628	2-033	0-385	0-520	0-539
16	53-36	87-83	86-91	36-22	41-35	57-60	12-95	14-73	15-59
	2 101	3-458	3-422	1 426	1-628	2 268	0 510	0 580	0 614
18*									
20	58-62	89-81	*	37-54	43-45	68-70	16-12	17-17	17-06
	2-308	3-536		1-478	1-711	2 705	0-635	0-676	0 672
22*									
24	59-38	99-23	*	37-54	43-45	75-05	20-57	21-10	22-70
	2-338	3-907		1-478	1 711	2 955	0-810	0-831	0 894

* Please consult factory

AB Style:—AB05-6200 Plug, Coarse Ribbed Coupling Nut
 BS Style:—C2094

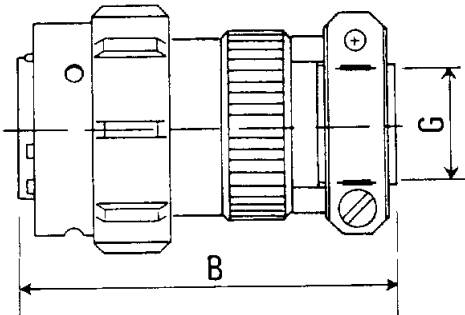


 → Metric
 — Imperial

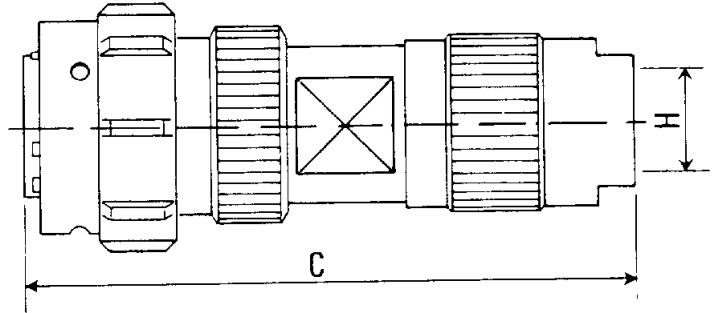
HOUSING (SHELL) SIZE	A max	φ C max.	E max.	F thread	H max	Om min	MASS MAX. G
				UNEF 2A		OVERLAP	
08	25.4	22.1	20.4	7/16 -28	24.4	7.3	13
	1.00	0.87	0.80		0.96	0.29	
10	25.4	24.9	20.4	9/16 -24	24.4	7.3	17
	1.00	0.98	0.80		0.96	0.29	
12	25.4	29.3	20.4	1 1/16 -24	24.4	7.3	22
	1.00	1.15	0.80		0.96	0.29	
14	25.4	32.6	20.4	1 3/16 -20	24.4	7.3	28
	1.00	1.28	0.80		0.96	0.29	
16	25.4	37.6	20.4	1 5/16 -20	24.7	7.3	38
	1.00	1.48	0.80		0.97	0.29	
18	25.4	40.4	20.4	1 7/16 -18	24.9	7.3	46
	1.00	1.59	0.80		0.98	0.29	
20	27.8	43.5	20.4	1 7/8 -18	26.2	8.9	59
	1.10	1.71	0.80		1.03	0.35	
22	27.8	46.3	20.4	1 5/8 -18	26.2	8.9	63
	1.10	1.82	0.80		1.03	0.35	
24	27.8	49.6	21.4	1 7/8 -18	28.0	8.9	83
	1.10	1.95	0.84		1.10	0.35	

* Please consult factory

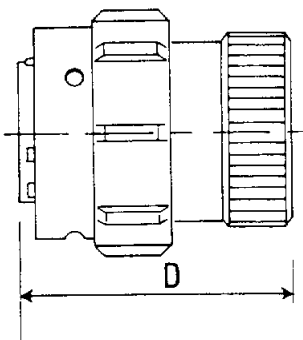
AB05-6227



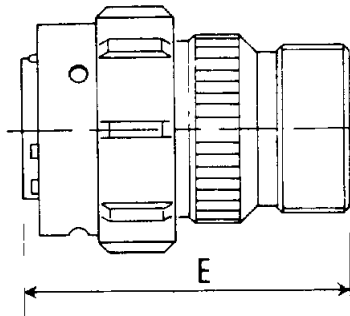
AB05-6229 (Type A & C Cables)
AB05-6230 (Type B & Q Cables)



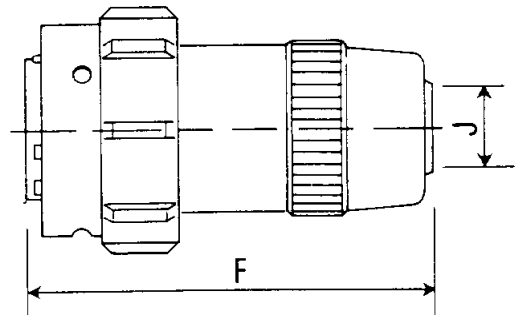
AB05-6240



AB05-6250



AB05-6255

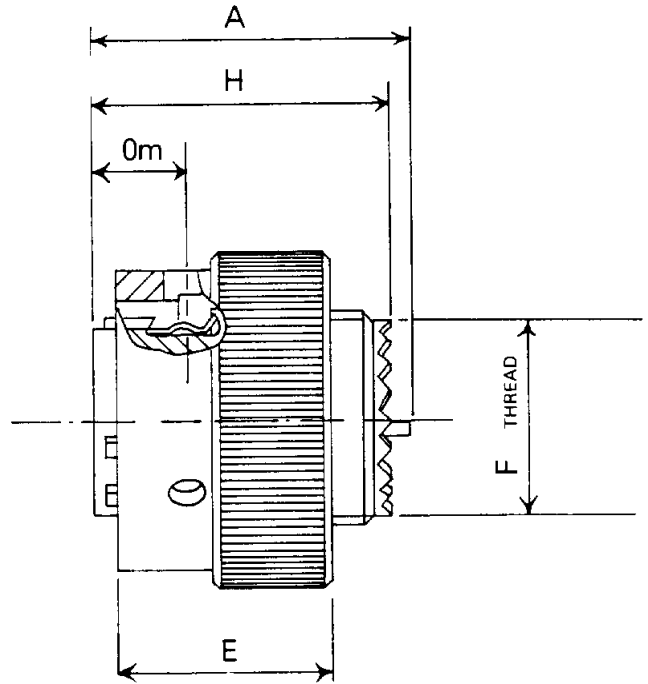
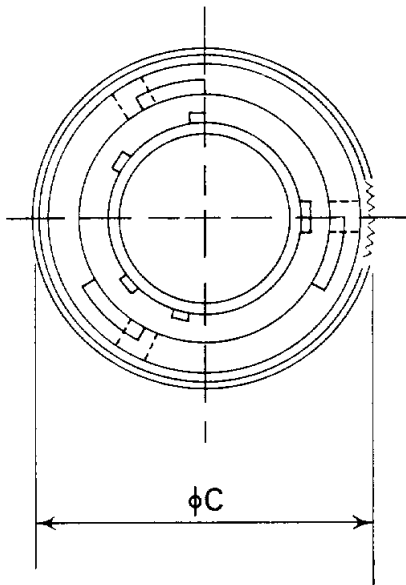
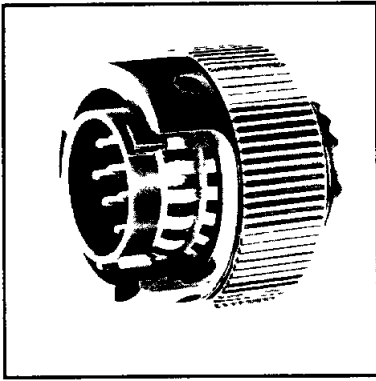


- Metric
 - Imperial

SHELL SIZE	B	C for AB05 0029	C for AB05 0030	D	E	F	CABLE φ G MAX	CABLE φ H MAX	CABLE φ J MAX
08	51-33	73-88	73-63	36-22	41-35	46-05	4-06	9-09	5-84
	2-021	2-909	2-899	1-426	1-628	1-813	0-160	0-358	0-230
10	51-33	74-14	73-71	36-22	41-35	46-05	5-02	9-09	7-92
	2-021	2-919	2-902	1-426	1-628	1-813	0-192	0-358	0-321
12	51-33	84-93	84-60	36-22	41-35	48-33	8-30	12-09	11-22
	2-021	3-344	3-331	1-426	1-628	1-903	0-327	0-476	0-442
14	51-33	84-42	84-48	36-22	41-35	51-63	9-77	13-20	13-69
	2-021	3-324	3-326	1-426	1-628	2-033	0-385	0-520	0-539
16	53-36	87-83	86-91	36-22	41-35	57-60	12-95	14-73	15-59
	2-101	3-458	3-422	1-426	1-628	2-268	0-510	0-580	0-614
18*									
20	58-62	89-81	*	37-54	43-45	68-70	16-12	17-17	17-06
	2-308	3-536		1-478	1-711	2-705	0-635	0-676	0-672
22*									
24	59-38	99-23	*	37-54	43-45	75-05	20-57	21-10	22-70
	2-338	3-907		1-478	1-711	2-955	0-810	0-831	0-894

* Please consult factory

AB Style:—AB05-6100 Plug, Knurled Coupling Nut
with Grounding Fingers BS Style:—C2093

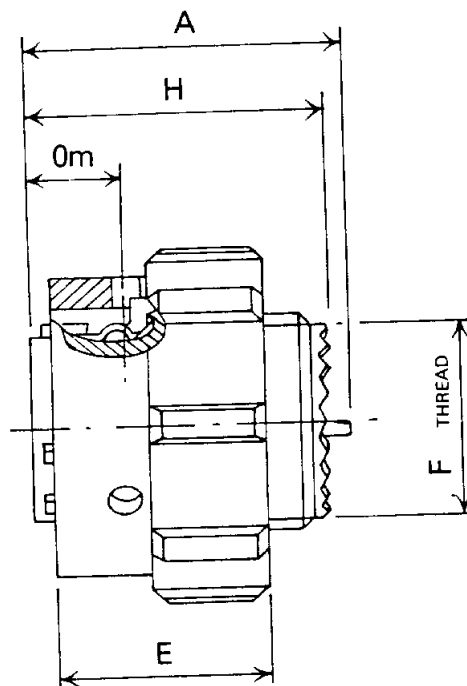
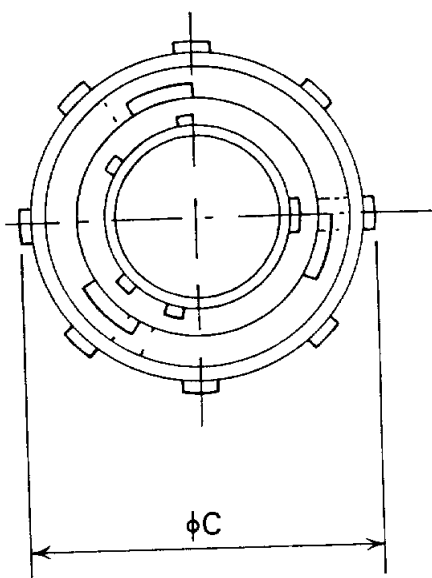
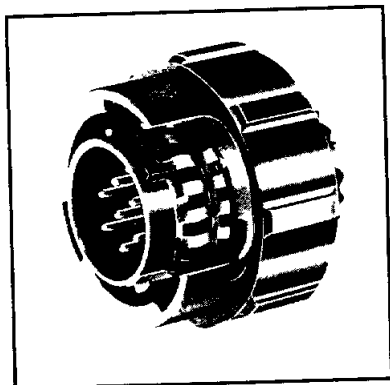


— Metric — Imperial

HOUSING (SHELL) SIZE	A max	ϕ C max	E max	F thread	H max	O _m min	MASS
				UNEF 2A		OVERLAP	MAX G
08	25.4	19.1	19.3	7/16 -28	24.4	7.3	12
	1.00	0.75	0.76		0.96	0.29	
10	25.4	21.8	19.3	9/16 -24	24.4	7.3	15
	1.00	0.86	0.76		0.96	0.29	
12	25.4	26.4	19.3	1 1/16 -24	24.4	7.3	20
	1.00	1.04	0.76		0.96	0.29	
14	25.4	30.0	19.3	1 3/16 -20	24.4	7.3	27
	1.00	1.18	0.76		0.96	0.29	
16	25.4	33.3	19.3	1 5/16 -20	24.7	7.3	35
	1.00	1.31	0.76		0.97	0.29	
18	25.4	35.6	19.3	1 7/8 -18	24.9	7.3	45
	1.00	1.40	0.76		0.98	0.29	
20	27.8	39.1	19.3	1 3/8 -18	26.2	8.9	56
	1.10	1.54	0.76		1.03	0.35	
22	27.8	42.2	19.3	1 5/8 -18	26.2	8.9	65
	1.10	1.66	0.76		1.03	0.35	
24	27.8	45.2	20.4	1 7/8 -18	28.0	8.9	30
	1.10	1.78	0.80		1.10	0.35	

● FOR OUTLINE DIMENSIONS OF CONNECTORS WITH ACCESSORIES SEE PAGE 17

AB Style:—AB05-6300 Plug, Coarse Ribbed Coupling Nut with Grounding Fingers BS Style:—C2095



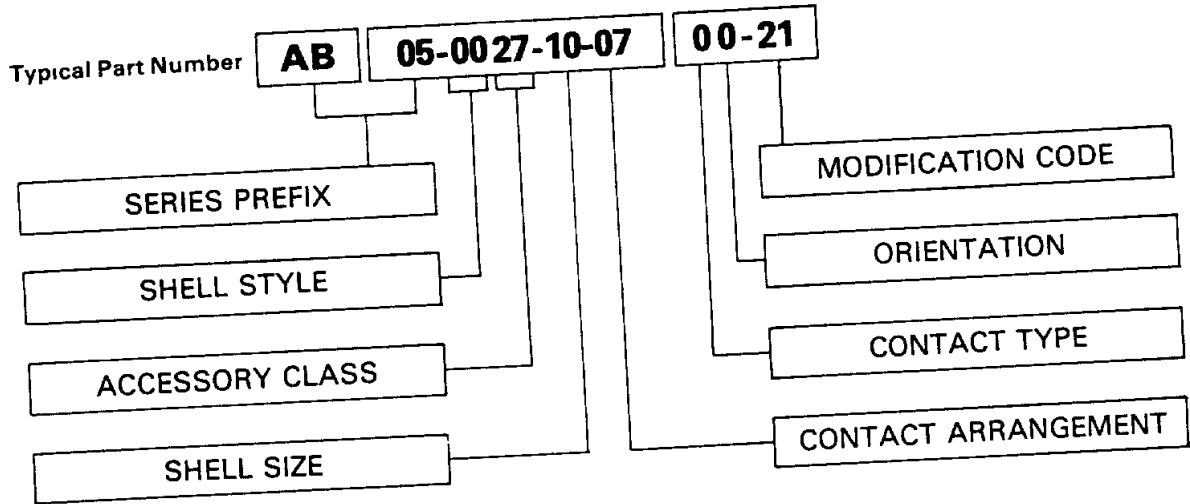
—Metric —Imperial

HOUSING (SHELL) SIZE	A max.	ϕ C max.	E max	F thread	H max	O _m min OVERLAP	MASS MAX. G
				UNEF 2A			
08	25.4	22.1	20.4	7/16 -28	24.4	7.3	13
	1.00	0.87	0.80		0.96	0.29	
10	25.4	24.9	20.4	9/16 -24	24.4	7.3	17
	1.00	0.98	0.80		0.96	0.29	
12	25.4	29.3	20.4	1 1/16 -24	24.4	7.3	22
	1.00	1.15	0.80		0.96	0.29	
14	25.4	32.6	20.4	1 3/16 -20	24.4	7.3	28
	1.00	1.28	0.80		0.96	0.29	
16	25.4	37.6	20.4	1 5/16 -20	24.7	7.3	38
	1.00	1.48	0.80		0.97	0.29	
18	25.4	40.4	20.4	1 7/16 -18	24.9	7.3	46
	1.00	1.59	0.80		0.98	0.29	
20	27.8	43.5	20.4	1 7/8 -18	26.2	8.9	59
	1.10	1.71	0.80		1.03	0.35	
22	27.8	46.3	20.4	1 9/16 -18	26.2	8.9	63
	1.10	1.82	0.80		1.03	0.35	
24	27.8	49.6	21.4	1 7/8 -18	28.0	8.9	83
	1.10	1.95	0.84		1.10	0.35	

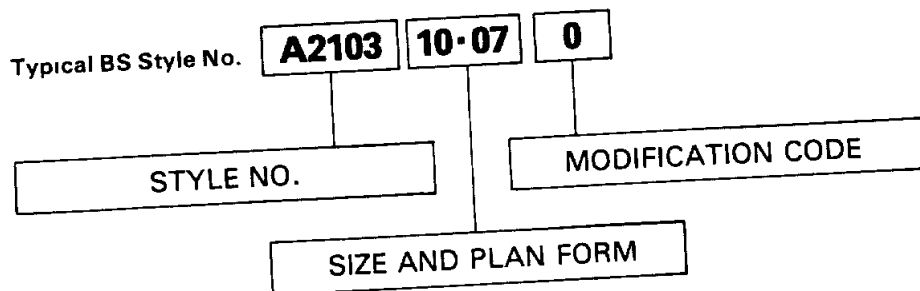
• FOR OUTLINE DIMENSIONS OF CONNECTORS WITH ACCESSORIES SEE PAGE 19

Accessories

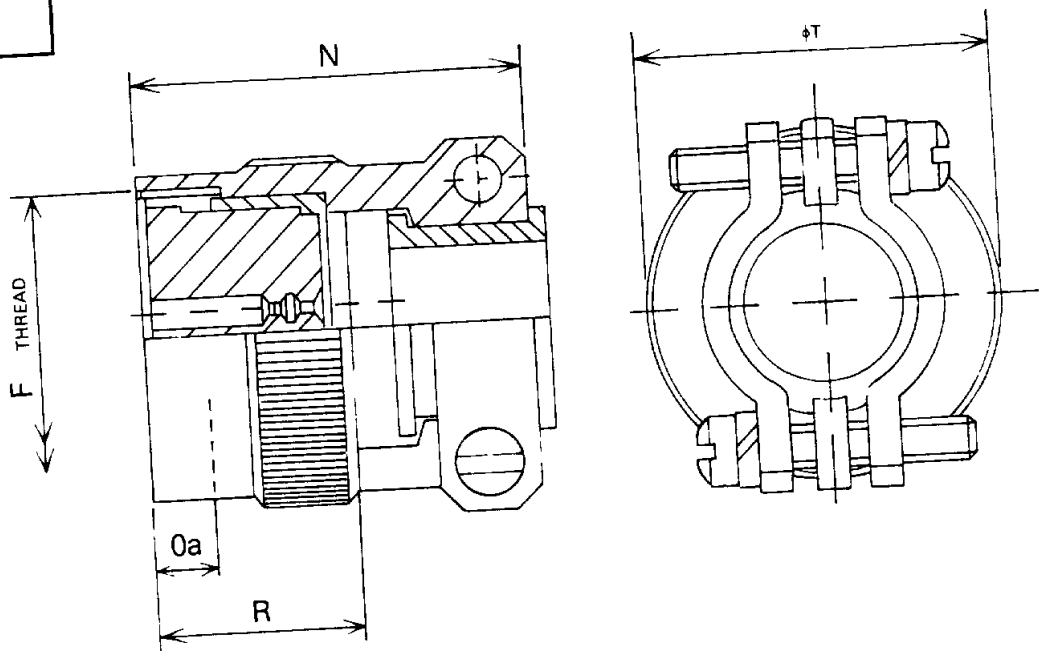
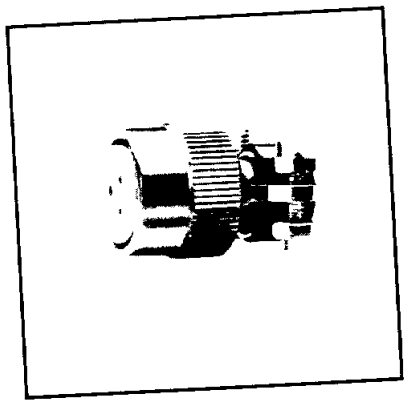
ACCESSORIES CAN ALSO BE ORDERED SEPARATELY
PART NO. EXPLANATION



- Series Prefix** — AB05 (Approved to BS 9522 F0017)
- Shell Style** — 00 No Connector Accessory Only
- Accessory Glass** — 27 Strain Relief Clamp
29 Straight Outlet Internally Screened
30 Straight Outlet Externally Screened
40 Grommet Nut
50 General Duty Adaptor (No Grommet Necessary)
55 Sealing Gland (No Grommet Necessary)
- Accessory Size** — 8, 10, 12, 14, 16, 18, 20, 22, 24
(Increase in Sixteenths of an Inch)
- Contact Arrangement** — Refers to Grommet where Fitted
00 No Grommet Supplied
- Orientation** — 00 No Orientation
- Modification** — 21 Anodised Black Def 151 Type 1



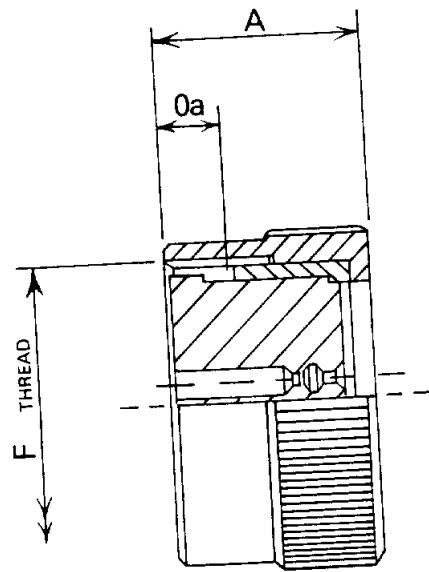
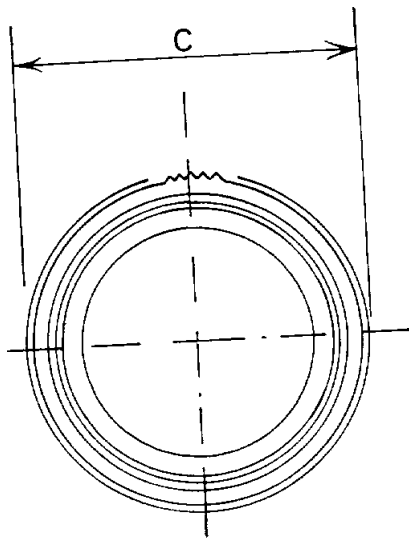
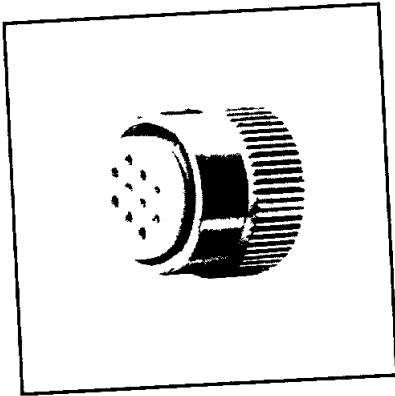
AB Style:—AB05-0027 Strain Relief Clamp
 BS Style:—A2103



—Metric —Imperial

HOUSING (SHELL) SIZE	F thread	N max	Oa min	R max	φT max.	MASS MAX G
	UNEF 2B					
08	3/16 -28	31.4	4.8	16.5	15.2	18
		1.24	0.19	0.65	0.60	
10	1/8 -24	31.4	4.8	16.5	18.5	19
		1.24	0.19	0.65	0.73	
12	1 1/16 -24	31.4	4.8	16.5	21.8	20
		1.24	0.19	0.65	0.86	
14	1 3/16 -20	31.4	4.8	16.5	25.1	22
		1.24	0.19	0.65	0.99	
16	1 5/16 -20	33.5	4.8	16.5	28.2	25
		1.32	0.19	0.65	1.11	
18	1 7/16 -18	34.3	4.8	16.5	31.5	29
		1.35	0.19	0.65	1.24	
20	1 9/16 -18	36.8	4.8	17.2	34.5	31
		1.45	0.19	0.68	1.36	
22	1 5/16 -18	36.8	4.8	17.2	37.6	38
		1.45	0.19	0.68	1.48	
24	1 7/16 -18	36.8	4.8	17.2	40.9	42
		1.45	0.19	0.68	1.61	

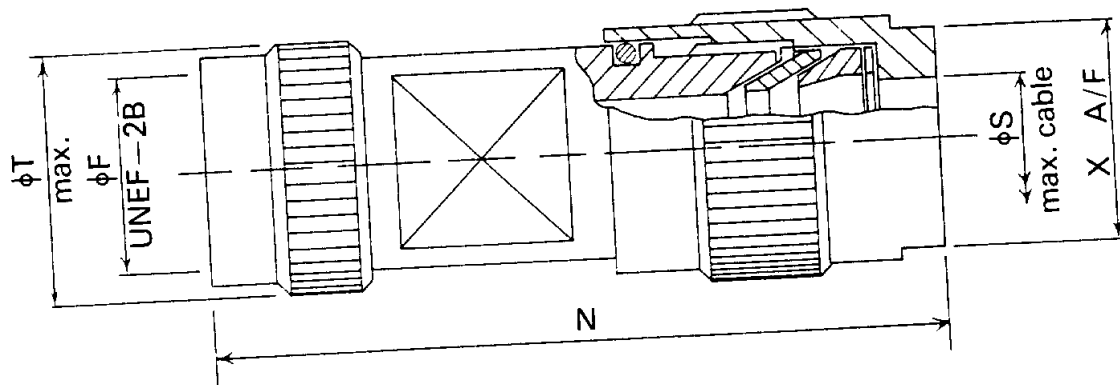
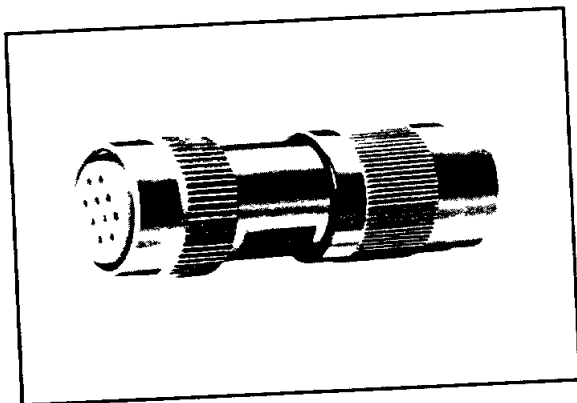
AB Style:—AB05-0040 Grommet Nut
 BS Style:—A2102



—Metric —Imperial

HOUSING (SHELL) SIZE	F thread CLASS 2B	A max	Oa min OVERLAP	C DIA. max	MASS
					MAX G
08	7/16 -28 UNEF	16.5	4.8	15.2	7
		0.65	0.19	0.6	
10	9/16 -24 UNEF	16.5	4.8	18.5	9
		0.65	0.19	0.73	
12	1 1/16 -24 UNEF	16.5	4.8	21.8	12
		0.65	0.19	0.86	
14	1 3/16 -20 UNEF	16.5	4.8	25.2	14
		0.65	0.19	0.99	
16	1 5/16 -20 UNEF	16.5	4.8	28.2	17
		0.65	0.19	1.11	
18	1 7/16 -18 UNEF	16.5	4.8	31.5	21
		0.65	0.19	1.24	
20	1 3/8 -18 UNEF	17.2	4.8	34.5	22
		0.68	0.19	1.36	
22	1 5/8 -18 UNEF	17.2	4.8	37.5	26
		0.68	0.19	1.48	
24	1 7/8 -18 UNEF	17.2	4.8	40.9	28
		0.68	0.19	1.51	

AB Style:—AB05-0029 Straight Outlet for Internally Screened Cables

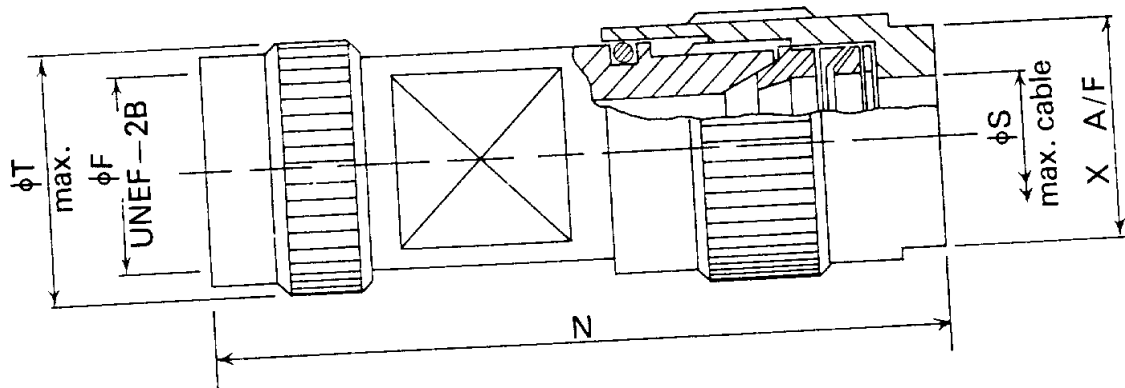
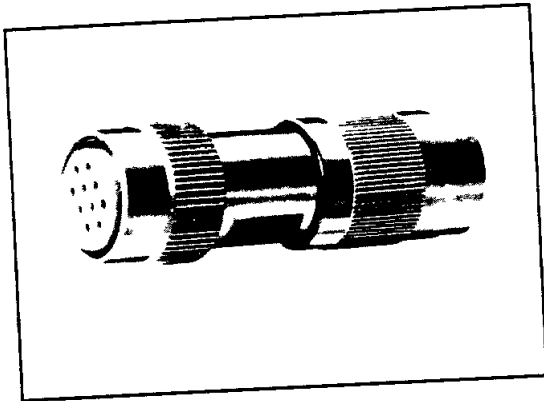


—Metric —Imperial

HOUSING (SHELL) SIZE	ϕT max	ϕF THREAD	N max.	ϕS	X A/F
08	17.53	$\frac{3}{16} \times 28$	51.30	7.2	12.7
	0.690		2.020	0.283	0.500
10	19.30	$\frac{9}{16} \times 24$	51.05	8.7	12.7
	0.760		2.010	0.343	0.500
12	21.74	$1\frac{1}{16} \times 24$	63.30	7.2; 11.8	15.87
	0.856		2.492	0.283; 0.465	0.625
14	26.52	$1\frac{3}{16} \times 20$	63.91	12.5	17.45
	1.044		2.516	0.492	0.687
16	29.82	$1\frac{5}{16} \times 20$	67.06	14.6	19.05
	1.174		2.640	575	0.750
18*					
20	35.66	$1\frac{3}{16} \times 18$	67.06	16.7	25.4
	1.404		2.640	0.657	1.000
22*					
24	42.00	$1\frac{7}{16} \times 18$	76.58	20.30	26.97
	1.654		3.015	0.800	1.062

* Please consult factory

AB Style:—AB05-0030 Straight Outlet for Externally Screened Cables

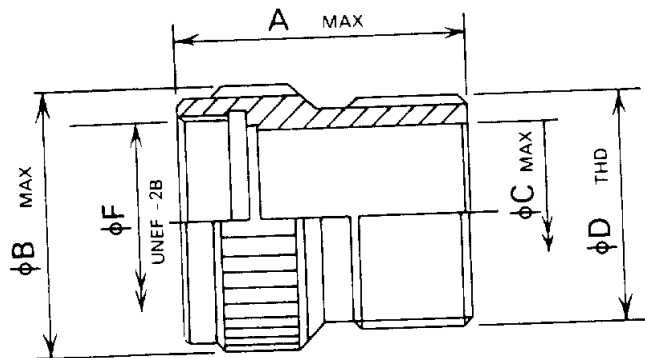
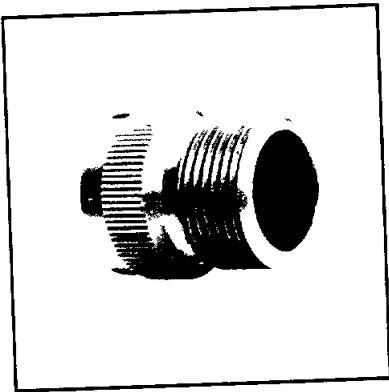


—Metric —Imperial

HOUSING (SHELL) SIZE	ϕT_{max}	ϕF THREAD	N_{max}	ϕS	X A/F
08	17-53	$\frac{7}{16} \times 28$	51-30	7-2	12-7
	0-690		2-020	0-283	0-500
10	19-30	$\frac{9}{16} \times 28$	51-05	8-7	12-7
	0-760		2-010	0-343	0-500
12	21-74	$1\frac{1}{16} \times 24$	63-30	7-2; 11-8	15-87
	0-856		2-492	0-283; 0-465	0-625
14	26-52	$1\frac{3}{16} \times 20$	63-91	12-5	17-45
	1-044		2-516	0-492	0-687
16	29-82	$1\frac{5}{16} \times 20$	67-06	14-6	19-05
	1-174		2-640	0-575	0-750
18*					
20*					
22*					
24*					

* Please consult factory

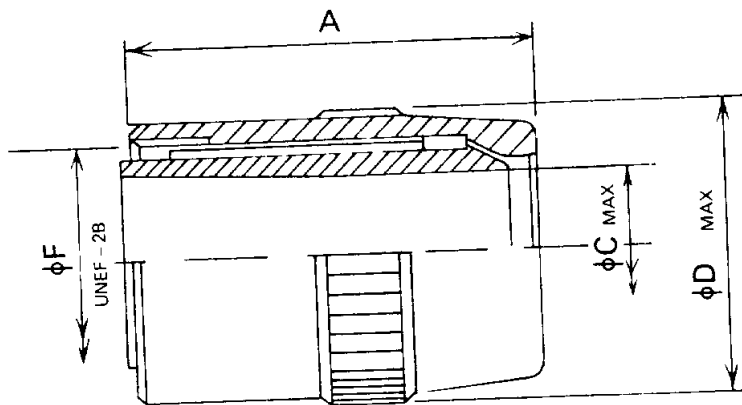
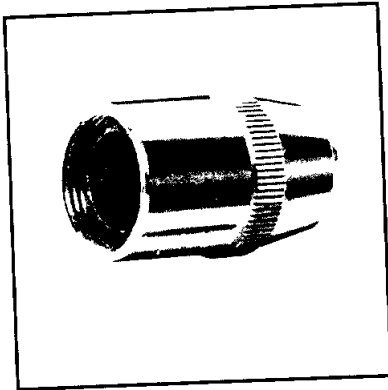
AB Style:—AB05-0050 General Duty Adaptor (No Grommet Necessary)



— Metric — Imperial

HOUSING (SHELL) SIZE	ϕF	A	ϕC	ϕB	ϕD
	THREAD				THREAD
08	$\frac{7}{16} \times 28$	23.75	8.36	14.99	$\frac{1}{2} \times 28$ UNEF
		0.935	0.329	0.590	
10	$\frac{9}{16} \times 24$	23.75	11.35	18.29	$\frac{5}{8} \times 24$ UNEF
		0.935	0.447	0.720	
12	$1\frac{1}{16} \times 24$	23.75	14.53	21.59	$\frac{3}{4} \times 20$ UNEF
		0.935	0.572	0.850	
14	$1\frac{3}{16} \times 20$	23.75	17.42	24.89	$\frac{7}{8} \times 20$ UNEF
		0.935	0.686	0.980	
16	$1\frac{5}{16} \times 20$	23.75	20.60	27.84	1 $\times 20$ UNEF
		0.935	0.811	1.096	
18	$1\frac{7}{16} \times 18$	23.75	23.34	30.73	$1\frac{3}{16} \times 18$ NEF
		0.935	0.919	1.210	
20	$1\frac{9}{16} \times 18$	23.75	24.89	34.29	$1\frac{5}{16} \times 18$ NEF
		0.935	0.980	1.350	
22	$1\frac{11}{16} \times 18$	23.75	29.69	37.59	$1\frac{7}{16} \times 18$ NEF
		0.935	1.169	1.480	
24	$1\frac{13}{16} \times 18$	23.75	31.24	40.64	$1\frac{9}{16} \times 18$ NEF
		0.935	1.230	1.600	

AB Style:—AB05-0055 Sealing Gland (No Grommet Necessary)

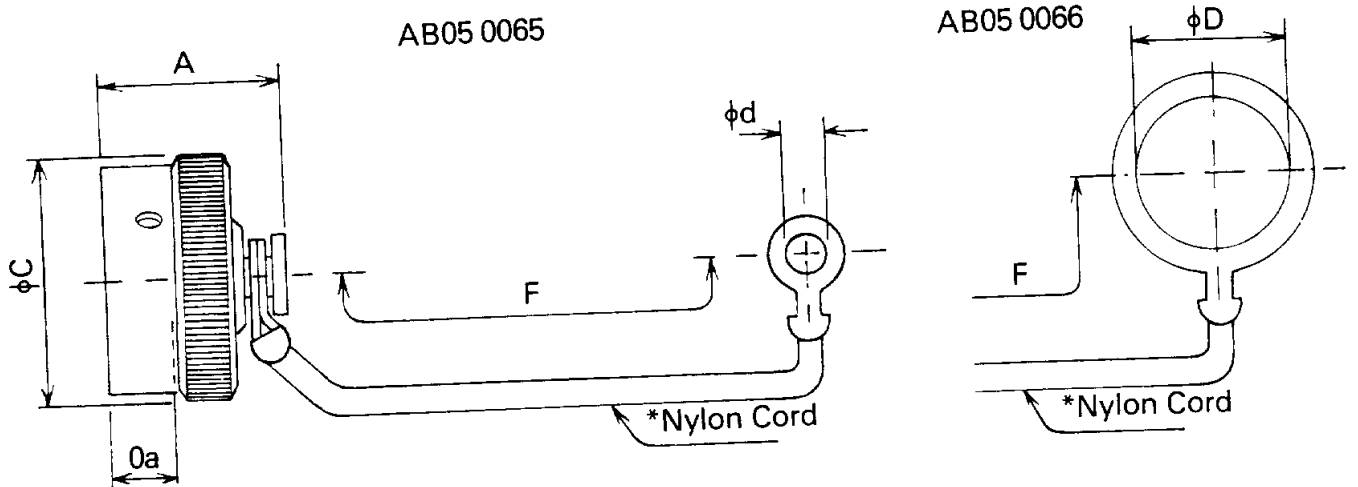


Metric Imperial

HOUSING (SHELL) SIZE	ϕF THREAD	A	ϕC max	ϕD max
08	$\frac{7}{16} \times 28$	26-80	5-84	14-22
		1 055	0-230	0-560
10	$\frac{9}{16} \times 24$	26-80	7-92	17-37
		1 055	0 312	0 684
12	$1\frac{1}{16} \times 24$	29-33	11-23	20-57
		1-155	0 442	0 810
14	$1\frac{3}{16} \times 20$	33-02	13-69	23-75
		1 300	0 539	0-935
16	$1\frac{5}{16} \times 20$	38-71	15-60	26-92
		1-524	0-614	1-060
18	$1\frac{7}{16} \times 18$	43-79	17-07	30 10
		1 724	0 672	1-185
20	$1\frac{7}{16} \times 18$	48-90	18-90	33-27
		1 925	0 744	1-310
22	$1\frac{9}{16} \times 18$	54-23	21-44	36-45
		2 135	0 844	1-435
24	$1\frac{9}{16} \times 18$	55-25	22-61	39-62
		2 175	0 890	1-560

AB Style:—AB05-0065 Cover for Square Flange Receptacle
 BS Style:—A2013

AB Style:—AB05-0066 Cover for Jam Nut Receptacle
 BS Style:—A2014

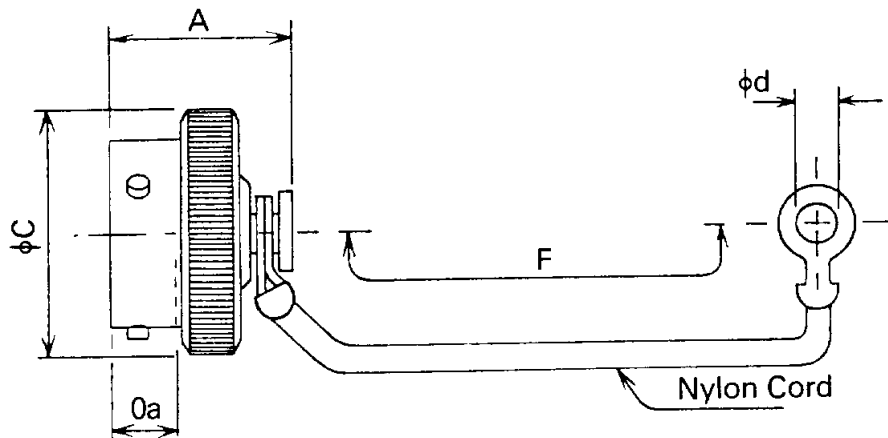


*Part Number for Cover with Ball Chain Attachment is AB05 0067 or AB05 0068 respectively

—Metric —Imperial

HOUSING (SHELL) SIZE	A max	φC max	φd min.	φD min.	F approx.	Oa min.	MASS MAX G
08	20.1	19.1	3.05	14.5	76.0	7.3	10
	0.79	0.75	0.120	0.57	3.0	0.29	
10	20.1	21.8	3.05	17.8	76.0	7.3	11
	0.79	0.86	0.120	0.70	3.0	0.29	
12	20.1	26.4	3.05	22.4	89.0	7.3	14
	0.79	1.04	0.120	0.88	3.5	0.29	
14	20.1	30.0	3.05	25.7	89.0	7.3	16
	0.79	1.18	0.120	1.01	3.5	0.29	
16	20.1	33.3	3.05	28.7	89.0	7.3	18
	0.79	1.31	0.120	1.13	3.5	0.29	
18	20.1	35.6	3.05	32.0	89.0	7.3	20
	0.79	1.40	0.120	1.26	3.5	0.29	
20	21.6	39.1	3.05	35.1	102.0	7.3	24
	0.85	1.54	0.120	1.38	4.0	0.29	
22	21.6	42.2	3.05	38.4	102.0	7.3	25
	0.85	1.66	0.120	1.51	4.0	0.29	
24	22.4	45.2	3.73	41.4	102.0	8.9	29
	0.88	1.78	0.147	1.63	4.0	0.35	

18 Style:—AB05-0070 Cover for Plus
 BS Style:—A2012



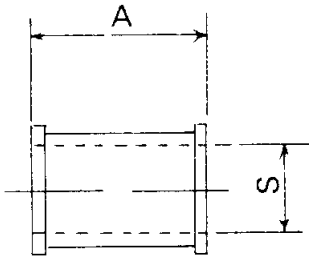
Part Number for Cover with Ball Chain Attachment is AB05 0072

▲ —Metric □ —Imperial

HOUSING (SHELL) SIZE	A _{max}	φC _{max}	φd _{min}	F _{approx}	Oa _{min.}	MASS MAX G
					OVERLAP	
08	20.1	19.1	3.05	76.0	7.3	8
	0.79	0.75	0.120	3.0	0.29	
10	20.1	21.8	3.05	76.0	7.3	9
	0.79	0.86	0.120	3.0	0.29	
12	20.1	26.4	3.05	89.0	7.3	11
	0.79	1.04	0.120	3.5	0.29	
14	20.1	30.0	3.05	89.0	7.3	13
	0.79	1.18	0.120	3.5	0.29	
16	20.1	33.3	3.05	89.0	7.3	15
	0.79	1.31	0.120	3.5	0.29	
18	20.1	35.6	3.05	89.0	7.3	17
	0.79	1.40	0.120	3.5	0.29	
20	21.8	39.1	3.05	102.0	7.3	24
	0.85	1.54	0.120	4.0	0.29	
22	21.8	42.2	3.05	102.0	7.3	27
	0.85	1.66	0.120	4.0	0.29	
24	22.4	45.2	3.73	102.0	8.9	30
	0.88	1.78	0.147	4.0	0.35	

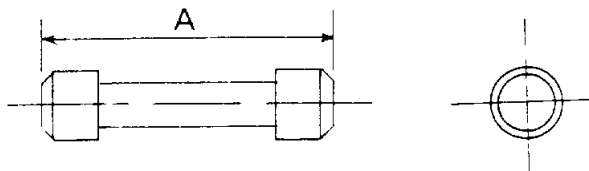
AB Style:—AB05 Size—430-0-00-10 Cable Grommet
 BS Style:—A2011

—Metric —Imperial



HOUSING (SHELL) SIZE	A _{max}	S _{dia max}	MASS
			MAX G
08	12.7	4.1	0.7
	0.50	0.16	
10	12.7	5.1	0.9
	0.50	0.20	
12	12.7	8.4	1.3
	0.50	0.33	
14	12.7	9.9	2.2
	0.50	0.39	
16	12.7	13.0	1.9
	0.50	0.51	
18	14.5	16.3	2.7
	0.57	0.64	
20	14.5	16.3	2.7
	0.57	0.64	
22	14.5	19.3	4.6
	0.57	0.76	
24	14.5	20.6	4.6
	0.57	0.81	

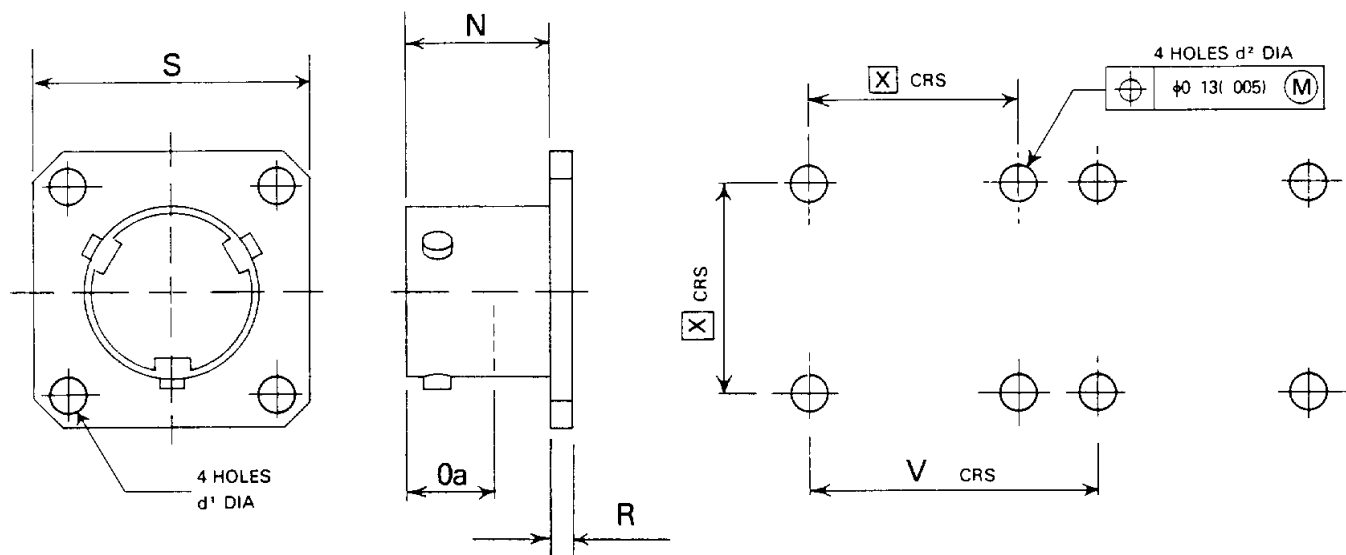
AB Style:—AB05 Size—240-0-00-AC Filler Plug
 BS Style:—A2202



—Metric —Imperial

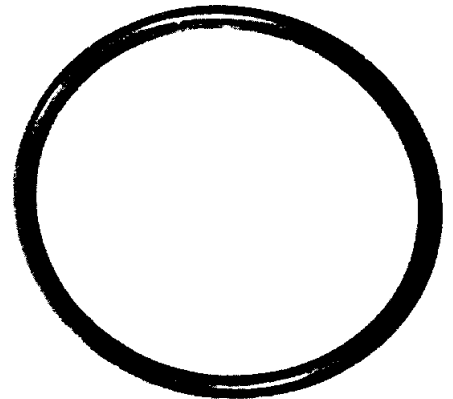
CONTACT SIZE	Colour code	A _{max}	MASS
			g x 10
20	Red	9.9	0.40
		0.39	
16	Blue	12.2	1.0
		0.48	

AB Style:—AB05-2300 Square Flange Stowage Receptacle BS Style:—A2203



— Metric — Imperial

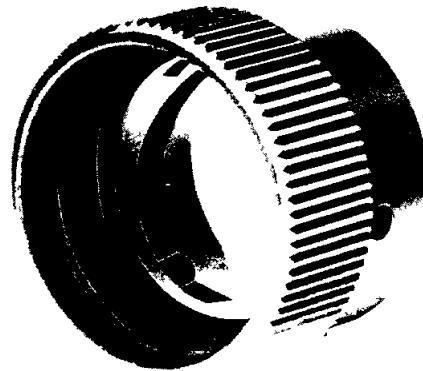
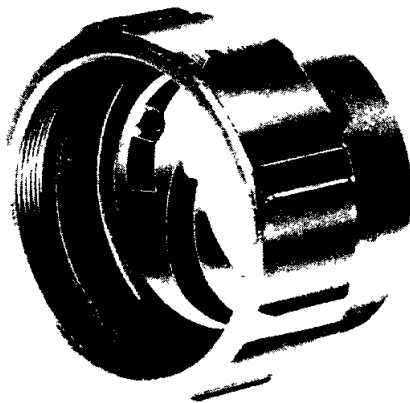
HOUSING (SHELL) SIZE	N _{max}	Oa _{min}	R _{max}	V _{CRS min.}	X _{CRS (TP)}	S _{max}	d ¹ dia	
							±13 ±0.005	d ² dia
08	12.5	7.5	2.0	22.6	15.09	21.1	3.05	3.12
	0.493	0.30	0.08	0.89	0.594	0.83	0.120	0.123
10	12.5	7.5	2.0	25.4	18.26	24.4	3.05	3.12
	0.493	0.30	0.08	1.00	0.719	0.96	0.120	0.123
12	12.5	7.5	2.0	29.7	20.62	26.7	3.05	3.12
	0.493	0.30	0.08	1.17	0.812	1.05	0.120	0.123
14	12.5	7.5	2.0	33.0	23.01	29.2	3.05	3.12
	0.493	0.30	0.08	1.30	0.906	1.15	0.120	0.123
16	12.5	7.5	2.0	38.1	24.61	31.5	3.05	3.12
	0.493	0.30	0.08	1.50	0.969	1.24	0.120	0.123
18	12.5	7.5	2.0	40.9	26.97	33.8	3.05	3.12
	0.493	0.30	0.08	1.61	1.062	1.33	0.120	0.123
20	14.9	9.1	2.8	43.9	29.36	37.0	3.05	3.12
	0.587	0.36	0.11	1.73	1.156	1.46	0.120	0.123
22	14.9	9.1	2.8	46.7	31.75	40.1	3.05	3.12
	0.587	0.36	0.11	1.84	1.250	1.59	0.120	0.123
24	15.7	9.1	2.8	50.0	34.93	43.4	3.73	3.81
	0.620	0.36	0.11	1.97	1.375	1.71	0.147	0.150



Shell Size	Lock Nut used on AB05 3100 and AB05 3200 Type Receptacles
08	AB05-08-370-0-00-NJ
10	AB05-10-370-0-00-NJ
12	AB05-12-370-0-00-NJ
14	AB05-14-370-0-00-NJ
16	AB05-16-370-0-00-NJ
18	AB05-18-370-0-00-NJ
20	AB05-20-370-0-00-NJ
22	AB05-22-370-0-00-NJ
24	AB05-24-370-0-00-NJ

Shell Size	Circlip
08	AB05-08-272-0-00-CH
10	AB05-10-272-0-00-CH
12	AB05-12-272-0-00-CH
14	AB05-14-272-0-00-CH
16	AB05-16-272-0-00-CH
18	AB05-18-272-0-00-CH
20	AB05-20-272-0-00-CH
22	AB05-22-272-0-00-CH
24	AB05-24-272-0-00-CH

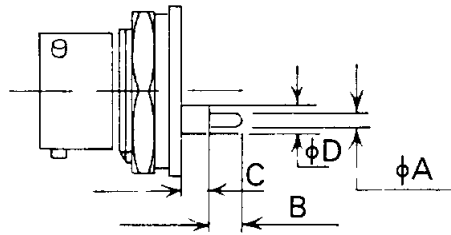
Shell Size	Toroidal 'O' Ring used on AB05 3100 and AB05 3200 Type Receptacles
08	AB05-08-375-0-00-AC
10	AB05-10-375-0-00-AC
12	AB05-12-375-0-00-AC
14	AB05-14-375-0-00-AC
16	AB05-16-375-0-00-AC
18	AB05-18-375-0-00-AC
20	AB05-20-375-0-00-AC
22	AB05-22-375-0-00-AC
24	AB05-24-375-0-00-AC



Shell Size	Coarse Ribbed Coupling Nut used on AB05 6200 and AB05 6300 Type Plugs
08	AB05-08-260-0-00-NJ
10	AB05-10-260-0-00-NJ
12	AB05-12-260-0-00-NJ
14	AB05-14-260-0-00-NJ
16	AB05-16-260-0-00-NJ
18	AB05-18-260-0-00-NJ
20	AB05-20-260-0-00-NJ
22	AB05-22-260-0-00-NJ
24	AB05-24-260-0-00-NJ

Shell Size	Knurled Coupling Nut used on AB05 6000 and AB05 6100 Type Plugs
08	AB05-08-261-0-00-NJ
10	AB05-10-261-0-00-NJ
12	AB05-12-261-0-00-NJ
14	AB05-14-261-0-00-NJ
16	AB05-16-261-0-00-NJ
18	AB05-18-261-0-00-NJ
20	AB05-20-261-0-00-NJ
22	AB05-22-261-0-00-NJ
24	AB05-24-261-0-00-NJ

Printed Circuit Board Contacts



MODIFICATION CODE	DIM B	DIM C	φA	φD
03-FOR SIZE 08-18	2 08/1 88 (0.082/0.074)	3 05/1 52 (0.120/0.060)	0 75/0 70 (0.029/0.027)	1 55/1.45 (0.057/0.061)
20-22	2.08/1 88 (0.082/0.074)	2.84/1 32 (0.112/0.052)	0 75/0 70 (0.029/0.027)	1.55/1.45 (0.057/0.061)
24	2 08/1 88 (0.082/0.074)	1 93/0 48 (0.079/0.019)	0 75/0 70 (0.029/0.027)	1 55/1.45 (0.057/0.061)
04-FOR SIZE 08-18	5 11/4 90 (0.201/0.193)	3 05/1.52 (0.120/0.060)	0 75/0.70 (0.029/0.027)	1 55/1.45 (0.057/0.061)
20-22	5.11/4 90 (0.201/0.193)	2.84/1.32 (0.112/0.052)	0 75/0.70 (0.029/0.027)	1 55/1.45 (0.057/0.061)
24	5 11/4 90 (0.201/0.193)	1 93/0.48 (0.079/0.019)	0 75/0.70 (0.029/0.027)	1 55/1.45 (0.057/0.061)

CRIMP CONTACTS AND ASSEMBLY TOOLS

SIZE	PART NUMBER	CRIMP BUCKET INTERNAL DIAMETER	MAX. CONDUCTOR C.S.A.	A W G.	
20	PIN 05-20-110-0-00-GAD	0 033 (0.83 mm)	0 0009 ins ² (0.55 mm ²)	20	To be used on Connector Size 08 18 only For Size 20-24 please consult factory
20	SOCKET 05-20-180-0-00-GAD	0 033 (0.83 mm)	0 0009 ins ² (0.55 mm ²)	20	

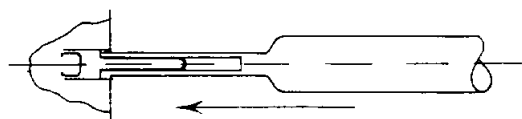
DESCRIPTION	PART NO
Crimp Tool	MS 3191A
Positioner Size 20 Pin and Socket	611062

Insertion and Extraction Tool

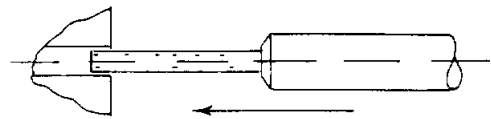


Part Number AB06-0042-00-0000-15

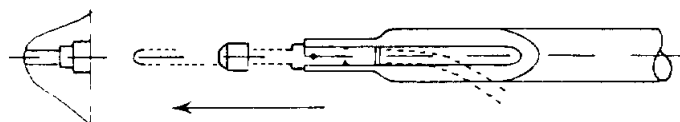
ASSEMBLY



Extraction of Pin



Extraction of Socket



Insertion of Contact

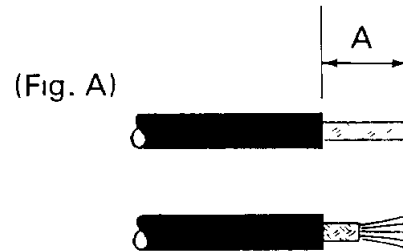
Assembly Procedure for Straight Outlets

AB05 0029

AB05-0029 INTERNALLY SCREENED CABLE TYPE C

- Strip PVC Sheath back to Dim A, this will expose the Braid which is to be trimmed to within 19.8 mm (0.75") of PVC Sheath and the remainder folded back (See Fig A)

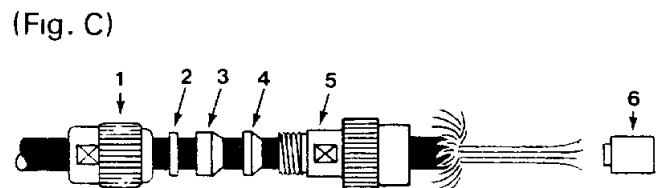
Size	Dimension A
08	34.93 (1.375)
10	36.51 (1.437)
12-14	41.27 (1.625)
16-20	44.45 (1.750)
22-24	49.21 (1.937)



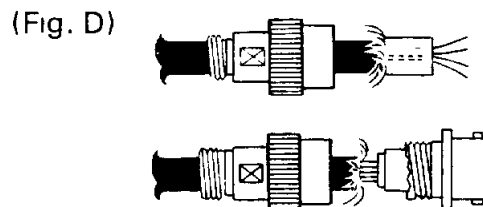
- Strip 3 mm (0.210") to 6.1 mm (0.240") of insulation from each wire and Tin Ends (Fig B)



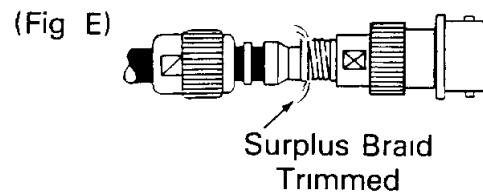
- Slide onto the cable (1) Nut, (2) Washer, (3) Gasket, (4) Braid Clamp, (5) Clamp Body, (6) Grommet (Fig C)



- Insert individual wires into Grommet. Slide Grommet back as far as possible. Insert Tinned Ends into Contacts and solder. Slide Grommet over Contacts pushing firmly against rear of Connector Insert (Fig D)



- Screw Clamp Body onto Connector. Fold Braid at right angles to cable and slide forward Braid Clamp. Smooth down and trim surplus Braid. Slide up Gasket Washer and Screw on Nut (Fig E)



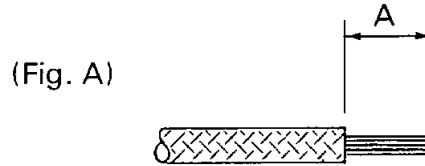
Assembly Procedure for Straight Outlets

AB05 0030

AB05 0030 EXTERNALLY SCREENED CABLE TYPES B AND Q

- 1 Strip Outer Braid and Internal PVC Sheath of Cable back to Dim A (Fig A)

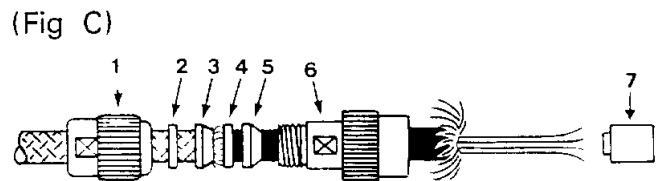
Size	Dimension A
08	33 32 (1 312)
10	34 93 (1 375)
12-14	39 70 (1 563)
16-20	42 85 (1 687)
22-24	49 21 (1 875)



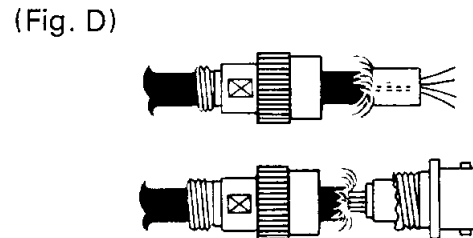
- 2 Strip 5.3 mm (0 210) to 6.1 mm (0 240) of insulation from each wire and Tin Ends (Fig B)



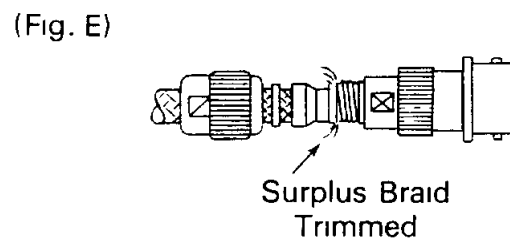
- 3 Slide onto the cable (1) Nut, (2) Washer, (3) Male Braid Clamp. Pull back Braid as far as possible. Slide on item (4) Female Braid Clamp, (5) Gasket, (6) Clamp Body, (7) Grommet (Fig C)



- 4 Insert individual wires into Grommet. Slide Grommet back as far as possible. Insert Tinned Ends into Contacts and solder. Slide Grommet over Contacts pushing firmly against rear of Connector. Insert (Fig D)



- 5 Screw Clamp Body onto Connector. Slide up Gasket and Female Braid Clamp. Push Braid up to Female Braid Clamp. Fold end of Braid at right angles. Push up Male Braid Clamp and smooth down and trim surplus Braid. Slide up Washer and Screw on Nut (Fig E)



Cross Reference

AB ELECTRONICS	BS 9522 F0017
AB05-1000	C2101
AB05-1027	C2101 + A2103
AB05-1029	
AB05-1040	C2101 + A2102
AB05-1050	
AB05-1055	
AB05-2000	C2096
AB05-2027	C2096 + A2103
AB05-2029	
AB05-2040	C2096 + A2102
AB05-2050	
AB05-2055	
AB05-2100	C2097
AB05-2100 03	C2262 2
AB05-2100 04	C2262 5
AB05-3100	C2099
AB05-3100 03	C2261 2
AB05-3100 04	C2261 5
AB05-3200	C2100
AB05-3227	C2100 + A2103
AB05-3229	
AB05-3240	C2100 + A2102

AB ELECTRONICS	BS 9522 F0017
AB05-3250	
AB05-3255	
AB05-6000	C2092
AB05-6027	C2092 + A2103
AB05-6029	
AB05-6040	C2092 + A2102
AB05-6050	
AB05-6055	
AB05-6100	C2093
AB05-6200	C2094
AB05-6227	C2094 + A2103
AB05-6229	
AB05-6240	C2094 + A2102
AB05-6250	
AB05-6255	
AB05-6300	C2095
Accessories	
AB05-0027	A2103
AB05-0029	
AB05-0040	A2102
AB05-0050	
AB05-0055	