

Contents

	Page
Technical Information	3
Insert Availability	4
Selection Chart	5
Part No. Explanation	6
Connector Assemblies	7
AB05-1000—Cable Connecting Receptacle	8-9
AB05-2000—Receptacle, Square Flange with Accessory Thread	10-11
AB05-3200—Receptacle, Jam Nut with Accessory Thread	12-13
AB05-2100—Receptacle, Square Flange, no Accessory Thread	14
AB05-3100—Receptacle, Jam Nut, no Accessory Thread	15
AB05-6000—Plug, Knurled Coupling Nut	16-17
AB05-6200—Plug, Coarse Ribbed Coupling Nut	18-19
AB05-6100—Plug, Knurled Coupling Nut with Spring Grounding Fingers	20
AB05-6300—Plug, Coarse Ribbed Coupling Nut with Spring Grounding Fingers	21
Accessory Part No. Explanation	22
AB05-0027—Strain Relief Clamp	23
AB05-0040—Grommet Nut	24
AB05-0029—Straight Outlet for Internally Screened Cables	25
AB05-0030—Straight Outlet for Externally Screened Cables	26
AB05-0050—General Duty Adaptor	27
AB05-0055—Sealing Gland	28
AB05-0065/66—Protective Caps	29
AB05-0070 —Protective Caps	30
Accessories	31
AB05-2300—Stowage Receptacles	32
Spares	33
P.C.B. and Crimp Contacts	34
Assembly Procedure for Cables used on AB05-0029 and 0030 Straight Outlets	35-36
Cross-Reference Table	Inside back cover

Standard Data

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°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

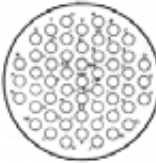
Orientation

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.

Insert Availability

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	○ Size 20 Contacts ● Size 16 Contact † Consult factory for availability			

CONTACT CURRENT RATINGS

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

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

Selection Chart

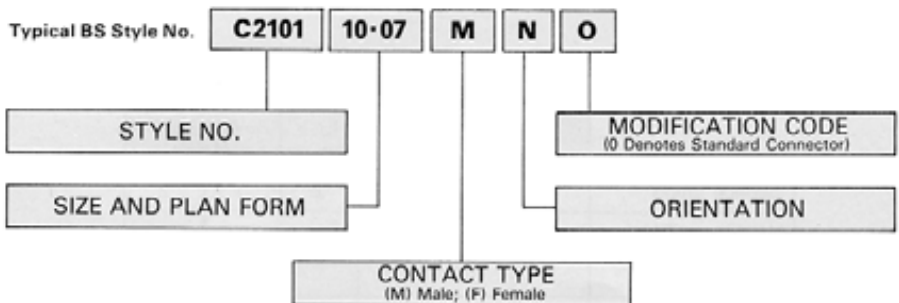
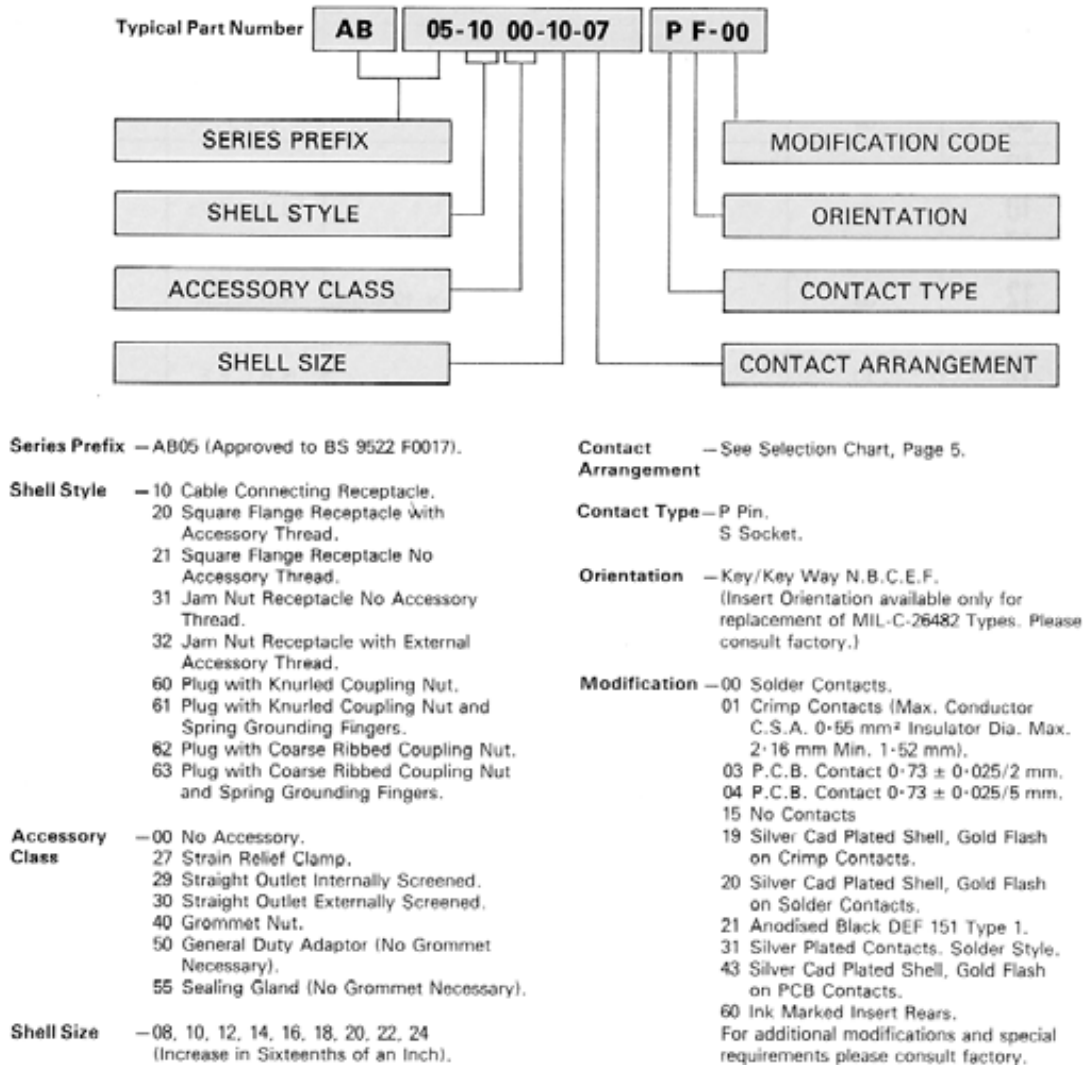
SHELL SIZE	CONTACT ARRANGEMENT	NO. OF CONTACTS	CONTACT SIZE AND CURRENT RATING (AMPS.)—AT 85°C AMBIENT		SHELL ORIENTATION	SERVICE RATING
			20	16		
08	33	3	3 × 5 amps.		N.E.F.	1
08	04	4	4 × 5 amps.		N.E.F.	1
10	02	2		2 × 10 amps.	N.B.C.E.F.	2
10	06	6	6 × 5 amps.		N.B.C.E.F.	1
10	07	7	7 × 5 amps.		N.B.C.E.F.	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
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

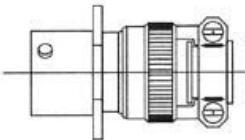
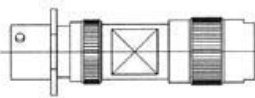
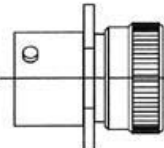
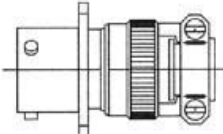
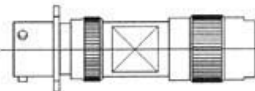
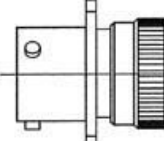
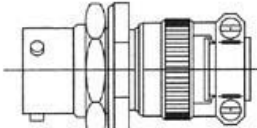
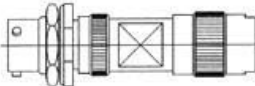
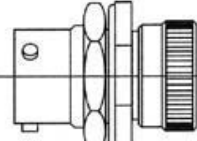
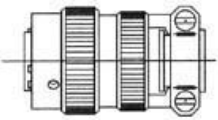
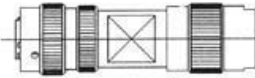
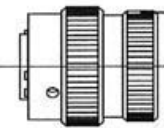
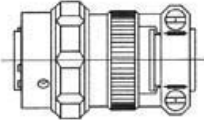
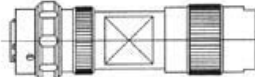
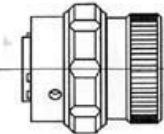
	Sea level 1013 mbar		8,500 m (27,800 ft.) 300 mbar		20,000 m (66,000 ft.) 44 mbar	
Service rating	1	2	1	2	1	2
Working voltage (nominal) d.c. or a.c. peak	700	1200	550	650	330	380
Voltage proof d.c. or a.c. peak	2100	3000	1100	1300	660	760

Part Number Explanation

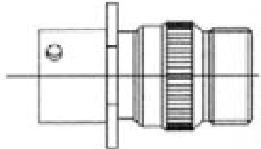
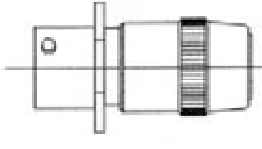
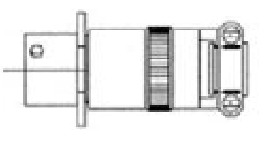
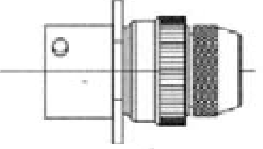
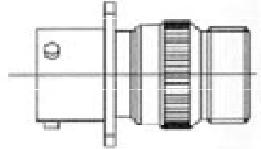
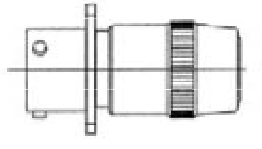
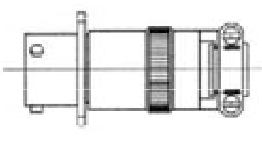
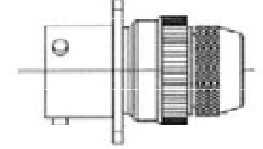
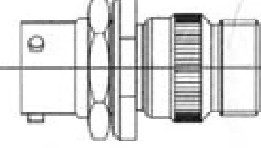
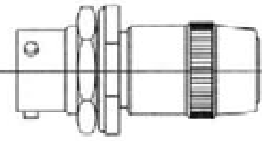
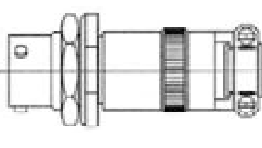
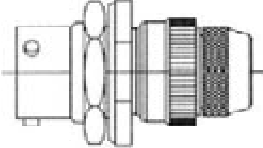
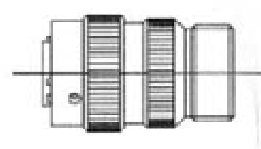
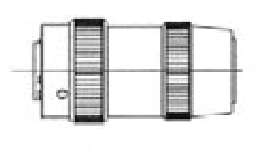
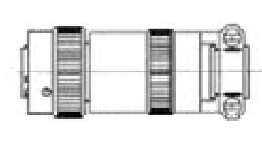
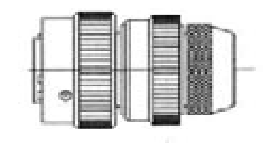
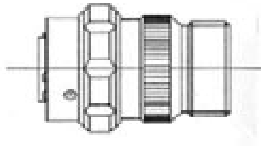
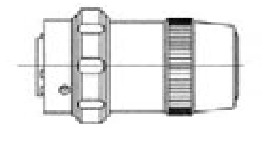
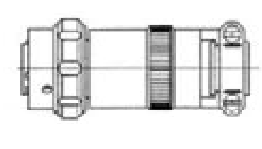
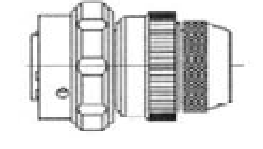
CONNECTOR



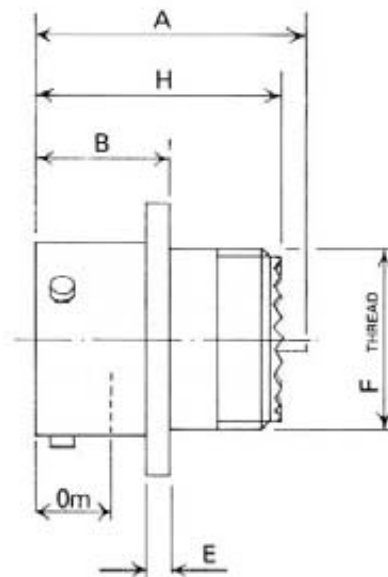
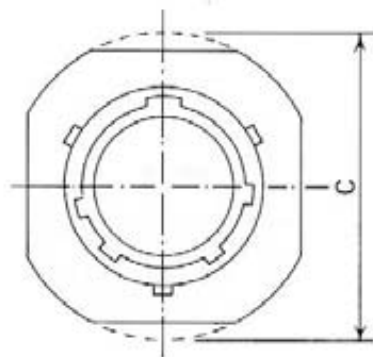
Connector Assemblies

SHELL STYLE	ACCESSORY CLASS		
			
	AB05-0027 Strain Relief Clamp	AB05-0028 - AB05-0030 Outlet Straight	AB05-0040 Plain Grommet Nut
			
AB05-1000 receptacle, Cable Connecting	AB05-1027	AB05-1029 AB05-1030	AB05-1040
			
AB05-2000 receptacle, square flange with accessory thread	AB05-2027	AB05-2029 AB05-2030	AB05-2040
			
AB05-3200 receptacle, Jam Nut with External accessory	AB05-3227	AB05-3229 AB05-3230	AB05-3240
			
AB05-6000/6100 lug, Knurled Coupling Nut/Grounding spring	AB05-6027	AB05-6029 AB05-6030	AB05-6040
			
AB05-6200/6300 lug, Course Ribbed Coupling Nut/Grounding Spring	AB05-6227	AB05-6229 AB05-6230	AB05-6240
			
	AB05-1027	AB05-1027	

Connector Assemblies

			
AB05-0050 General Duty Adaptor no grommet	AB05-0055 Sealing gland no grommet necessary	AB05-0082 Sealing Gland with Strain relief	AB05-0081 Accessory for shielding braids and heatshrink boots
			
AB05-1050	AB05-1055	AB05-1082	AB05-1081
			
AB05-2050	AB05-2055	AB05-2082	AB05-2081
			
AB05-3250	AB05-3255	AB05-3282	AB05-3281
			
AB05-6050	AB05-6055	AB05-6082	AB05-6081
			

AB Style - AB05-1000 Cable Connecting Receptacle **BS Style - C2101**

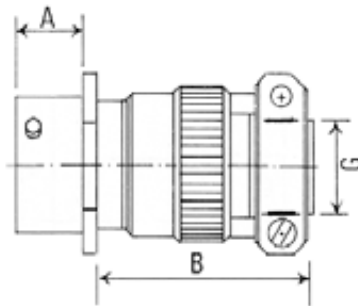
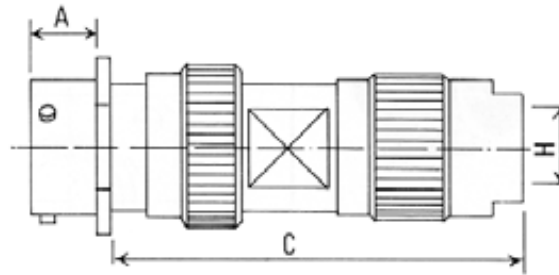


— Metric
 — Imperial

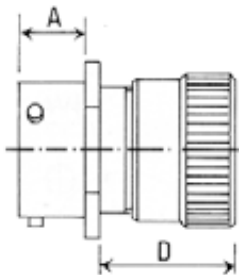
HOUSING (SHELL) SIZE	A max.	B max.	φ C max.	E max.	F thread	H max.	O _m min.	MASS
					UNEF 2A		OVERLAP	MAX. G
08	26.4	13.8	24.4	2.8	7/16 -28	26.0	7.3	8
	1.04	0.54	0.96	0.11		1.02	0.29	
10	26.4	13.8	27.7	2.8	9/16 -24	26.0	7.3	13
	1.04	0.54	1.09	0.11		1.02	0.29	
12	26.4	13.8	30.0	2.8	1 1/16 -24	26.0	7.3	17
	1.04	0.54	1.18	0.11		1.02	0.29	
14	26.4	13.8	32.3	2.8	1 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 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 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 7/8 -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 9/16 -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 7/8 -18	30.0	8.9	85
	1.20	0.73	1.84	0.13		1.13	0.35	

* Please consult factory

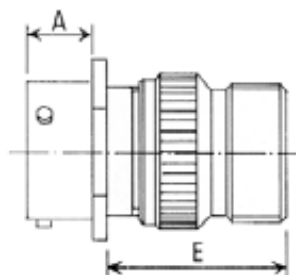
AB05-1027

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

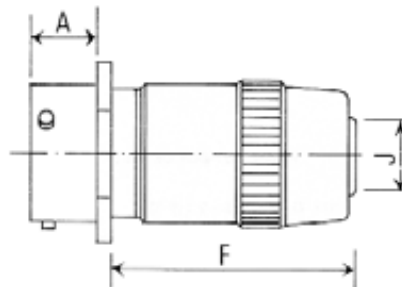
AB05-1040



AB05-1050



AB05-1055

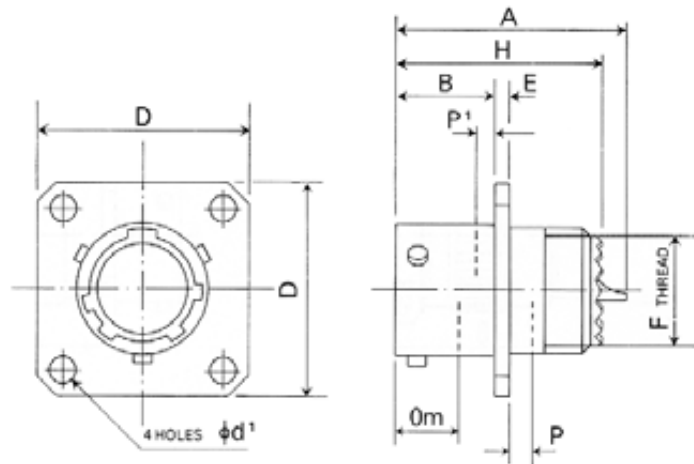


— Metric — Imperial

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	15.58
	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 Plange With Accessory Thread. BS Style - C2096



PANEL CUT-OUT DETAILS

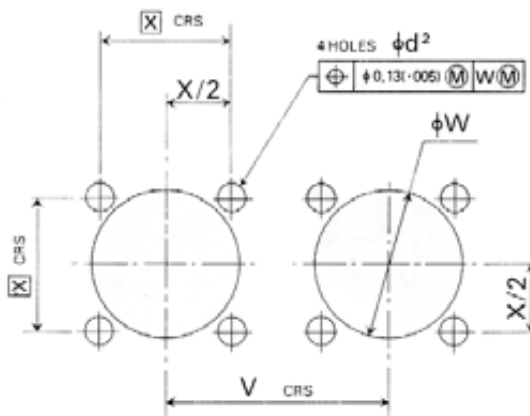
*P MAX. PANEL THICKNESS — 3.3 (0-13)

P¹ MIN. — CLEARANCE DISTANCE FOR MATING CONNECTOR

SIZE 8 TO 18 — 2.0 (0-08)

SIZE 20 TO 24 — 5.3 (0-21)

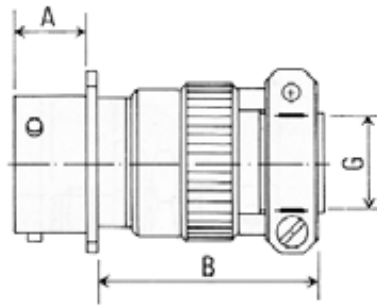
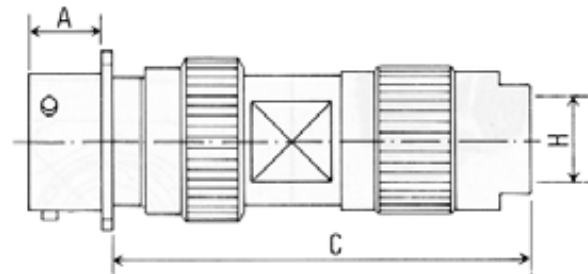
*P MAY BE INCREASED IF "W" IS ENLARGED TO CLEAR ACCESSORY



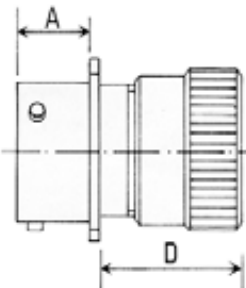
— Metric — Imperial

HOUSING (SHELL) SIZE	A max.	B max.	D sq. max.	E max.	F thread UNEF 2A	H max.	O _m min. OVERLAP	φ d ¹ min.	φ d ² min.	V min.	φ W ±0.13(-005)	X (TP)	MASS MAX. G
08	26.4	11.8	21.1	2.0	3/16 -28	26.0	7.3	3.05	3.25	22.8	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	3/16 -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	1/2 -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	28.3	2.0	13/16 -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 1/8 -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	0.989	
18	26.4	11.8	33.8	2.0	1 1/8 -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 3/8 -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 3/8 -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 3/8 -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	

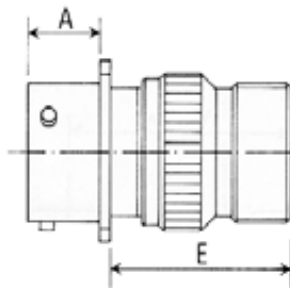
AB05-2027

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

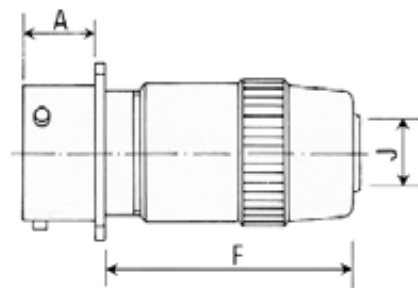
AB05-2040



AB05-2050



AB05-2055

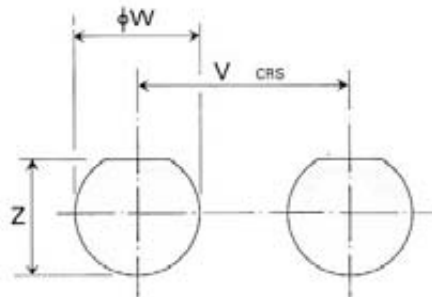
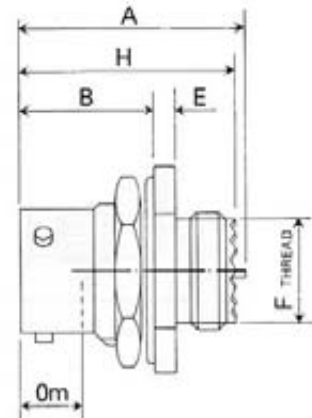
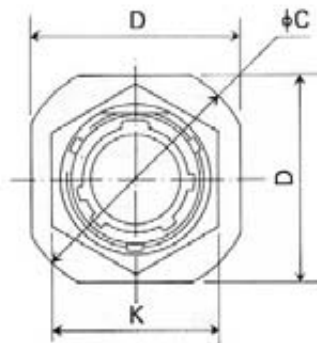


— Metric — Imperial

SHELL SIZE	A max.	B	C for AB05 0029	C for AB05 0030	D	E	F	CABLE ↓ G MAX.	CABLE ↓ H MAX.	CABLE ↓ 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**

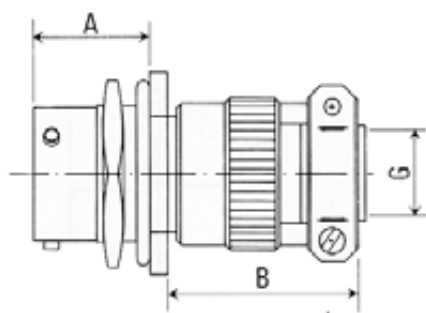
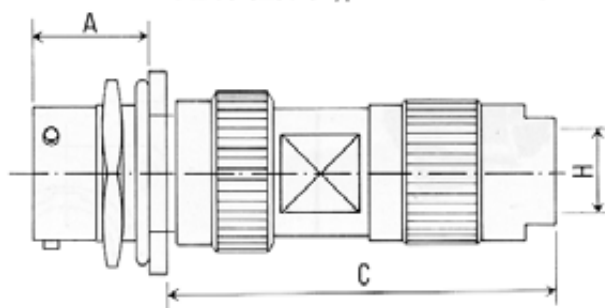


PANEL CUT-OUT DETAILS

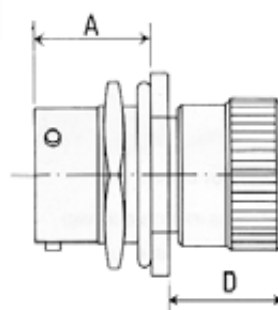
—Metric —Imperial

HOUSING (SHELL) SIZE	A max.	B max.	φC max.	D max.	E max.	F THREAD	H max.	K max.	O _m min.	PANEL THICKNESS		V	φW	Z	MASS
						UNEF-2A			OVERLAP	max.	min.		±0.13 (0.05)	±0.13 (0.05)	MAX. G
08	26.4	15.8	27.5	24.4	3.6	1/16 -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	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	11/16 -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	0.828	
14	26.4	15.8	38.7	35.6	3.6	13/16 -20	26.0	30.8	7.3	3.3	1.50	35.9	25.65	24.18	47
	1.04	0.62	1.52	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	15/16 -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 1/8 -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	49.8	46.5	3.6	1 3/16 -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 1/2 -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 5/8 -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	1.83	0.35	0.25	0.06	2.13	1.635	1.576	

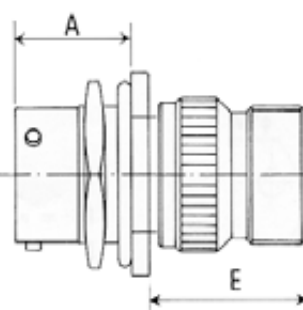
AB05-3227

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

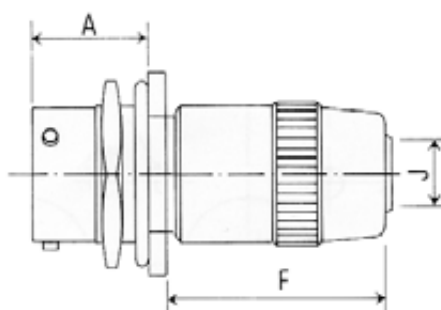
AB05-3240



AB05-3250



AB05-3255

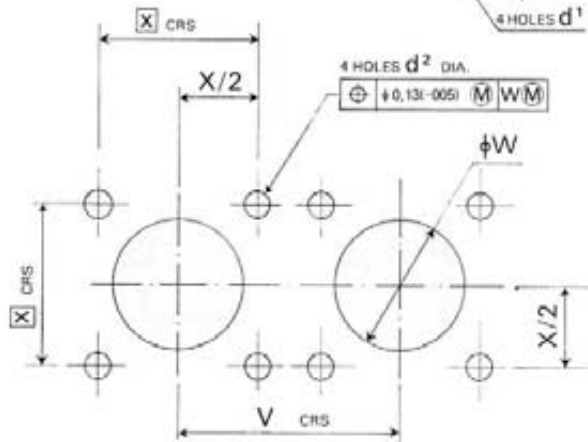
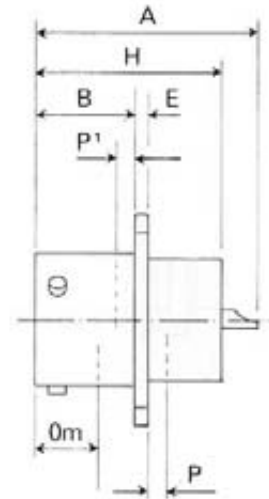
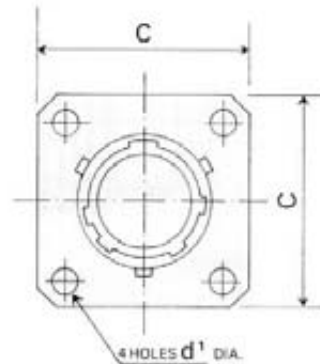


— Metric — Imperial

SHELL SIZE	A max.	B	C for AB05 0029	C for AB05 0030	D	E	F	CABLE G MAX.	CABLE H MAX.	CABLE J MAX.
08	15-80	33-68	56-23	55-98	18-58	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	18-58	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	18-58	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	18-58	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	18-58	23-69	39-95	12-95	14-73	15-58
	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		0-803	0-933	2-112	0-810	0-831	0-894

* Please consult factory

**AB Style - AB05 - 2100 Receptacle, Square Flange, No
Accessory Thread
BS Style - C2097**



PANEL CUT-OUT DETAILS

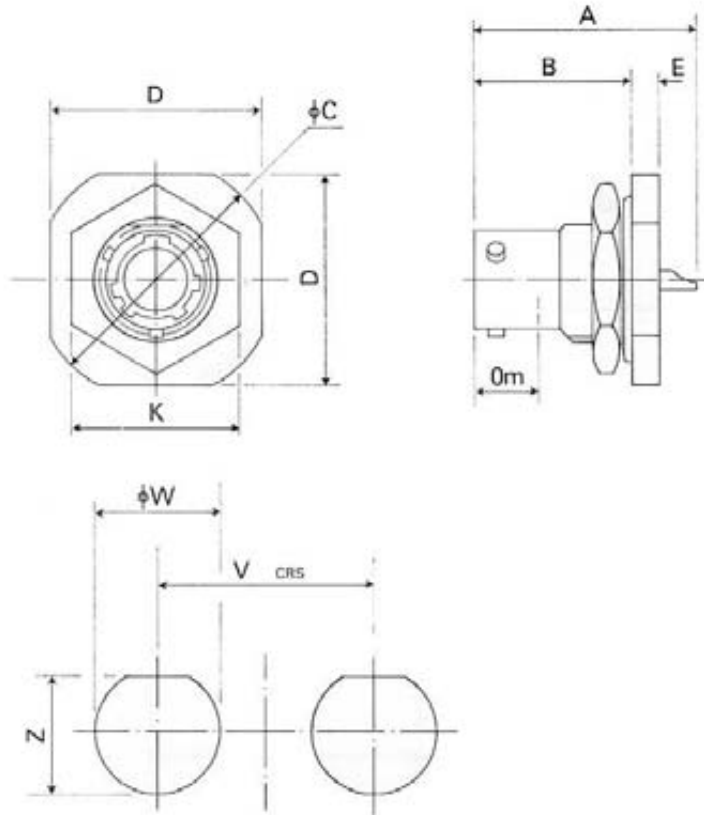
P = PANEL THICKNESS (FRONT MOUNTING)

P¹ = PANEL THICKNESS (REAR MOUNTING)

—Metric —Imperial

HOUSING (SHELL) SIZE	A max.	B max.	C max.	E max.	H max.	V CRS min.	φW min.	X CRS (TP)	d¹ dia. ±0.130-0.025	d² dia. ±0.130-0.025	0m min. OVERLAP	P max.	P¹ max.	MASS MAX. G
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 Accessory Thread
BS Style - C2099

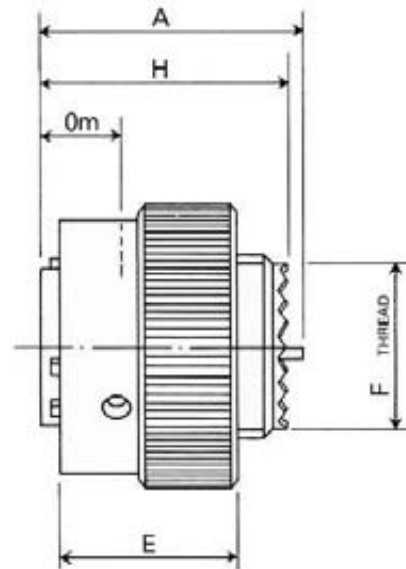
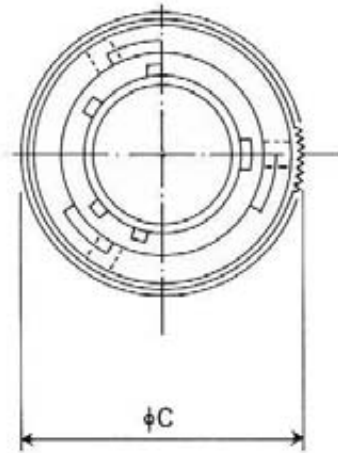


PANEL CUT-OUT DETAILS

☐ —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
								$\pm 0.13-0.05$	$\pm 0.130-0.05$	OVERLAP	max.	min.	MAX. G
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	30.51	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

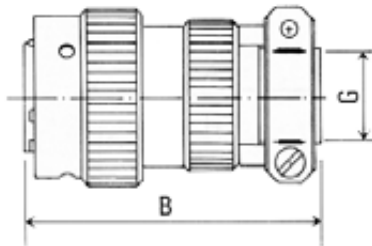
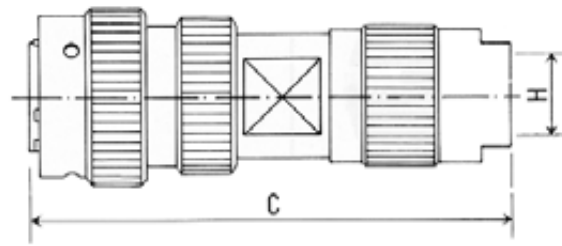


- Metric
 - Imperial

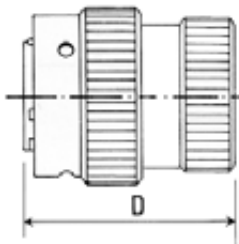
HOUSING (SHELL) SIZE	A max.	ϕC max.	E max.	F thread	H max.	O_m min.	MASS
				UNEF 2A		OVERLAP	MAX. G
08	25.4	19.1	19.3	$\frac{7}{16}$ -28	24.4	7.3	12
	1.00	0.75	0.76		0.96	0.29	
10	25.4	21.8	19.3	$\frac{9}{16}$ -24	24.4	7.3	15
	1.00	0.86	0.76		0.96	0.29	
12	25.4	26.4	19.3	$1\frac{1}{16}$ -24	24.4	7.3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

* Please consult factory

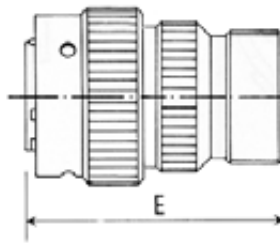
AB05 6027

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

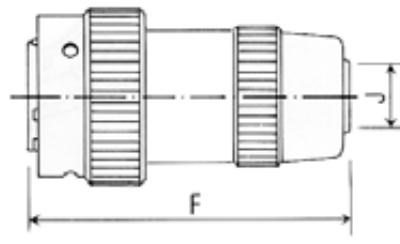
AB05 6040



AB05 6050



AB05 6055

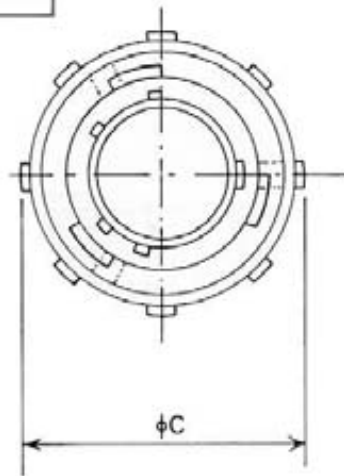


—Metric —Imperial

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

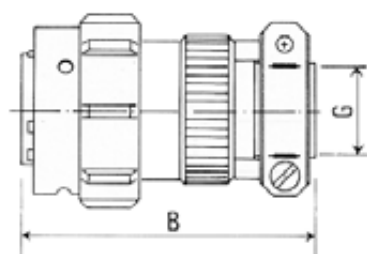
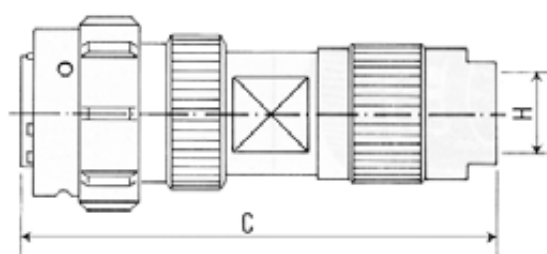


— Metric — Imperial

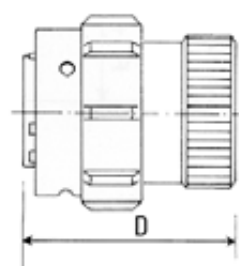
HOUSING (SHELL) SIZE	A max.	ϕC max.	E max.	F thread	H max.	O_m min.	MASS
				UNEF 2A		OVERLAP	MAX. G
08	25.4	22.1	20.4	$\frac{7}{16}$ - 28	24.4	7.3	13
	1.00	0.87	0.80		0.96	0.29	
10	25.4	24.9	20.4	$\frac{9}{16}$ - 24	24.4	7.3	17
	1.00	0.98	0.80		0.96	0.29	
12	25.4	29.3	20.4	$1\frac{1}{16}$ - 24	24.4	7.3	22
	1.00	1.15	0.80		0.96	0.29	
14	25.4	32.6	20.4	$1\frac{3}{16}$ - 20	24.4	7.3	28
	1.00	1.28	0.80		0.96	0.29	
16	25.4	37.6	20.4	$1\frac{5}{16}$ - 20	24.7	7.3	38
	1.00	1.48	0.80		0.97	0.29	
18	25.4	40.4	20.4	$1\frac{7}{8}$ - 18	24.9	7.3	46
	1.00	1.59	0.80		0.98	0.29	
20	27.8	43.5	20.4	$1\frac{7}{8}$ - 18	26.2	8.9	58
	1.10	1.71	0.80		1.03	0.35	
22	27.8	46.3	20.4	$1\frac{7}{8}$ - 18	26.2	8.9	63
	1.10	1.82	0.80		1.03	0.35	
24	27.8	49.6	21.4	$1\frac{7}{8}$ - 18	28.0	8.9	83
	1.10	1.95	0.84		1.10	0.35	

* Please consult factory

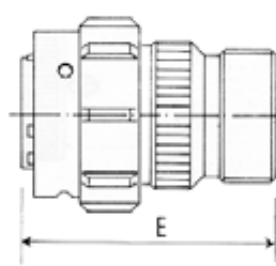
AB05-6227

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

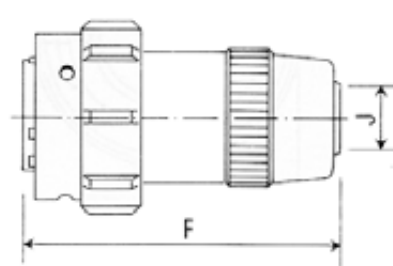
AB05-6240



AB05-6250



AB05-6255

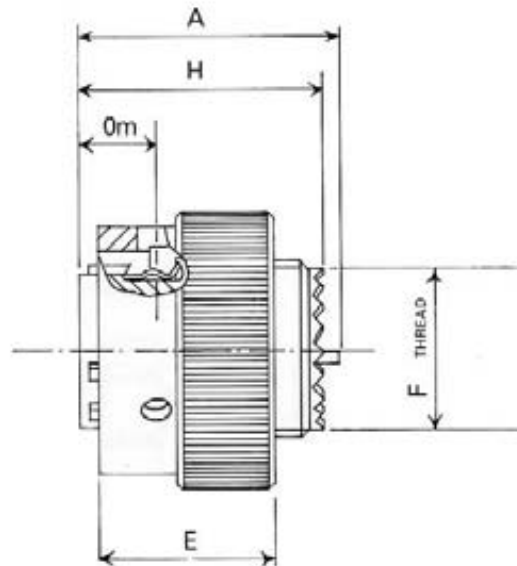
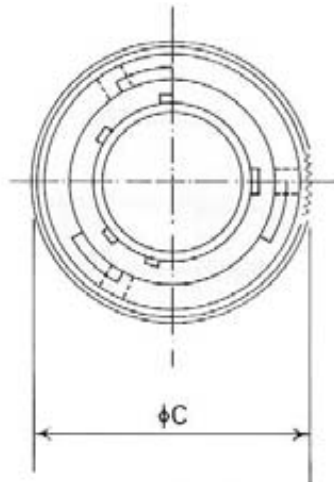


—Metric —Imperial

SHELL SIZE	B	C for AB05 0028	C for AB05 0030	D	E	F	CABLE G MAX.	CABLE H MAX.	CABLE 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	2-898	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	58-38	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

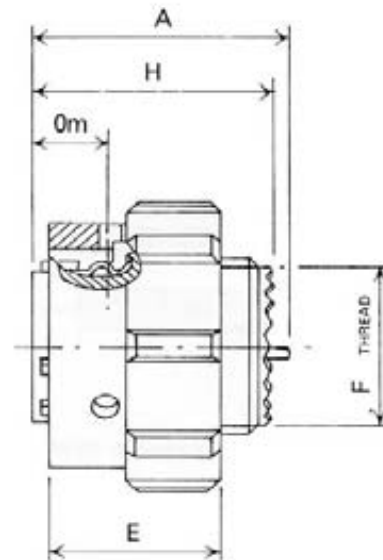
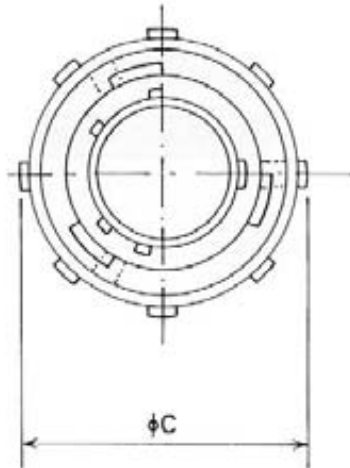
AB Style - AB05 - 6100 Plug Knurled Coupling Nut with Grounding Fingers BS Style - C2093



— Metric
 — Imperial

HOUSING (SHELL) SIZE	A max.	φ C max.	E max.	F thread UNEF 2A	H max.	Om min. OVERLAP	MASS MAX. G
08	25.4	19.1	19.3	$\frac{7}{16}$ -28	24.4	7.3	12
	1.00	0.75	0.76		0.96	0.29	
10	25.4	21.8	19.3	$\frac{9}{16}$ -24	24.4	7.3	15
	1.00	0.86	0.76		0.96	0.29	
12	25.4	26.4	19.3	$1\frac{1}{8}$ -24	24.4	7.3	20
	1.00	1.04	0.76		0.96	0.29	
14	25.4	30.0	19.3	$1\frac{3}{8}$ -20	24.4	7.3	27
	1.00	1.18	0.76		0.96	0.29	
16	25.4	33.3	19.3	$1\frac{5}{8}$ -20	24.7	7.3	35
	1.00	1.31	0.76		0.97	0.29	
18	25.4	35.6	19.3	$1\frac{7}{8}$ -18	24.9	7.3	45
	1.00	1.40	0.76		0.98	0.29	
20	27.8	38.1	19.3	$1\frac{7}{8}$ -18	26.2	8.9	56
	1.10	1.54	0.76		1.03	0.35	
22	27.8	42.2	19.3	$1\frac{7}{8}$ -18	26.2	8.9	65
	1.10	1.66	0.76		1.03	0.35	
24	27.8	45.2	20.4	$1\frac{7}{8}$ -18	28.0	8.9	80
	1.10	1.78	0.80		1.10	0.35	

**AB Style - AB05 - 2100 Receptacle, Square Flange, No
Accessory Thread
BS Style - C2097**



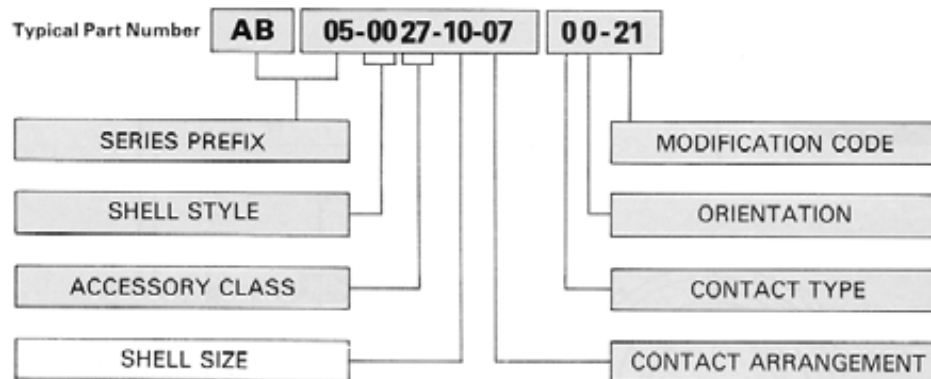
— Metric — Imperial

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

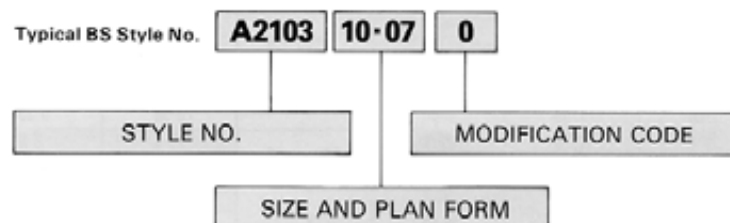
Accessory Class — 27 Strain Relief Clamp.
29 Straight Outlet Internally Screened.
30 Straight Outlet Externally Screened.
40 Grommet Nut.
50 General Duty Adaptor (No Grommet Necessary).
55 Sealing Gland (No Grommet Necessary).

Accessory Size — 8, 10, 12, 14, 16, 18, 20, 22, 24
(Increase in Sixteenths of an Inch).

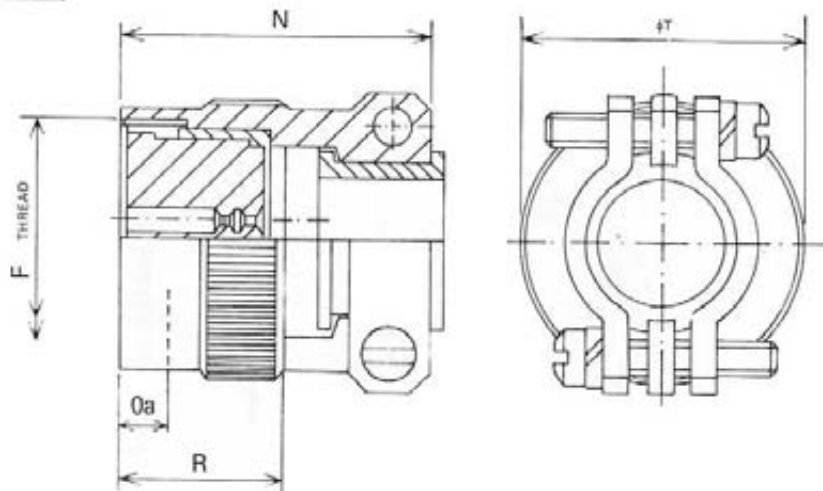
Contact — Refers to Grommet where Fitted.
Arrangement 00 No Grommet Supplied.

Orientation — 00 No Orientation.

Modification — 21 Anodised Black Def 151 Type 1.



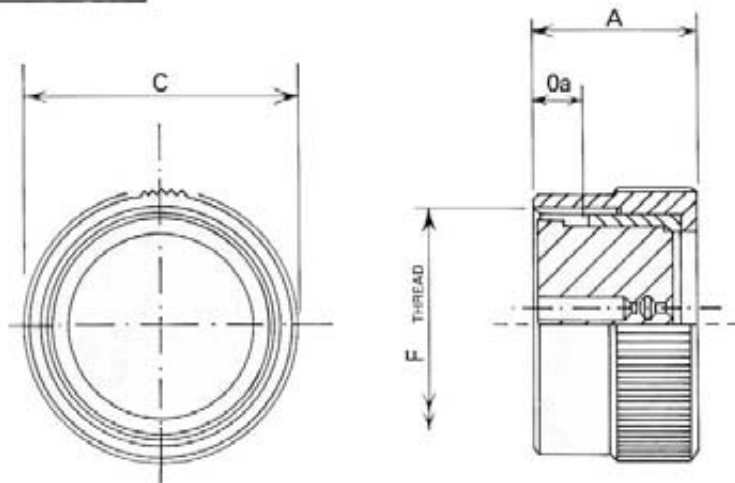
AB Style - AB05 - 0027 Strain Relief Clamp
BS Style - A2103



☐ —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	3/16 -24	31.4	4.8	16.5	18.5	19
		1.24	0.19	0.65	0.73	
12	11/16 -24	31.4	4.8	16.5	21.8	20
		1.24	0.19	0.65	0.86	
14	13/16 -20	31.4	4.8	16.5	25.1	22
		1.24	0.19	0.65	0.99	
16	15/16 -20	33.5	4.8	16.5	28.2	25
		1.32	0.19	0.65	1.11	
18	17/16 -18	34.3	4.8	16.5	31.5	29
		1.35	0.19	0.65	1.24	
20	17/16 -18	36.8	4.8	17.2	34.5	31
		1.45	0.19	0.68	1.36	
22	17/16 -18	36.8	4.8	17.2	37.6	38
		1.45	0.19	0.68	1.48	
24	17/16 -18	36.8	4.8	17.2	40.9	42
		1.45	0.19	0.68	1.61	

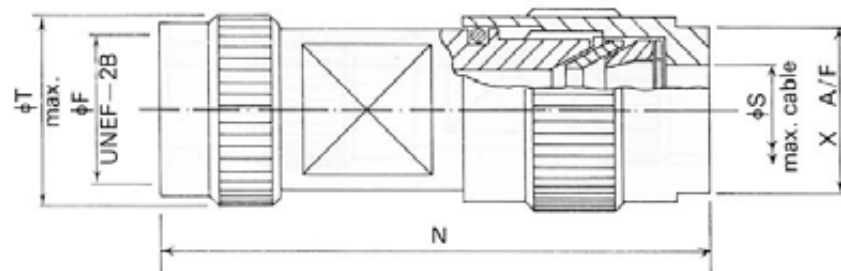
AB Style - AB05 - 0040 Grommet Nut
BS Style - A2102



☐ — Metric ☐ — Imperial

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

AB Style - AB05 - 0029, Staight Outlet for Internally Screened Cable

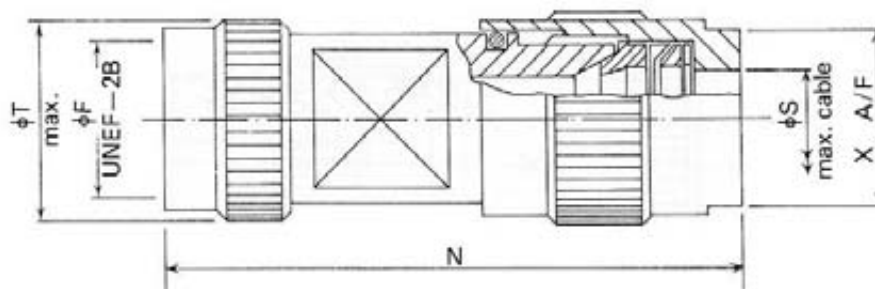


Metric
 Imperial

HOUSING (SHELL) SIZE	$\phi T_{max.}$	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	$\frac{7}{16} \times 24....$	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	$1\frac{3}{8} \times 16....$	67-06	16-7	25-4
	1-404		2-640	0-657	1-000
22*					
24	42-00	$1\frac{7}{8} \times 18....$	76-58	20-30	28-97
	1-654		3-015	0-800	1-062

* Please consult factory

AB Style - AB05 - 0030, Straight Outlet for Externally Screened Cable

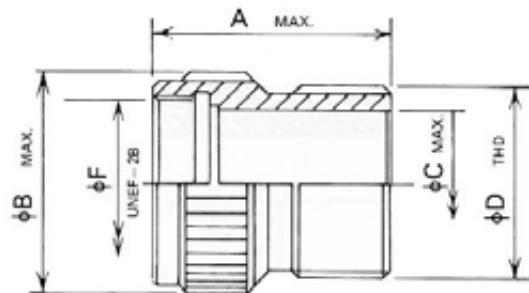


— Metric
 — Imperial

HOUSING (SHELL) SIZE	ϕT max.	ϕF THREAD	N max.	ϕS	X A/F
08	17-53	$\frac{7}{16} \times 28 \dots$	51-30	7-2	12-7
	0-690		2-020	0-283	0-500
10	19-30	$\frac{9}{16} \times 28 \dots$	51-05	8-7	12-7
	0-760		2-010	0-343	0-500
12	21-74	$1\frac{1}{16} \times 24 \dots$	63-30	7-2; 11-8	15-87
	0-856		2-492	0-283; 0-465	0-625
14	26-52	$1\frac{3}{16} \times 20 \dots$	63-91	12-5	17-45
	1-044		2-516	0-492	0-687
16	28-62	$1\frac{5}{16} \times 20 \dots$	67-06	14-6	19-05
	1-174		2-640	0-575	0-750
18*					
20*					
22*					
24*					

* Please consult factory

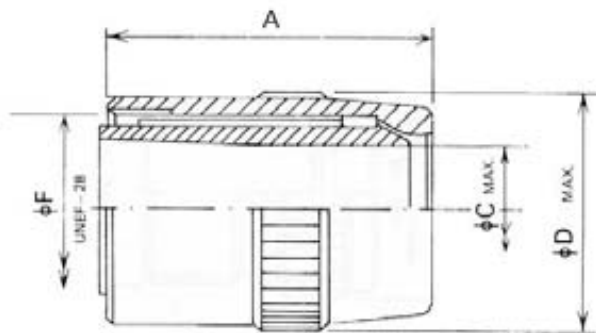
AB Style - AB05 - 0050, General Duty Adaptor (No Grommet Necessary)



— Metric
 — Imperial

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

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

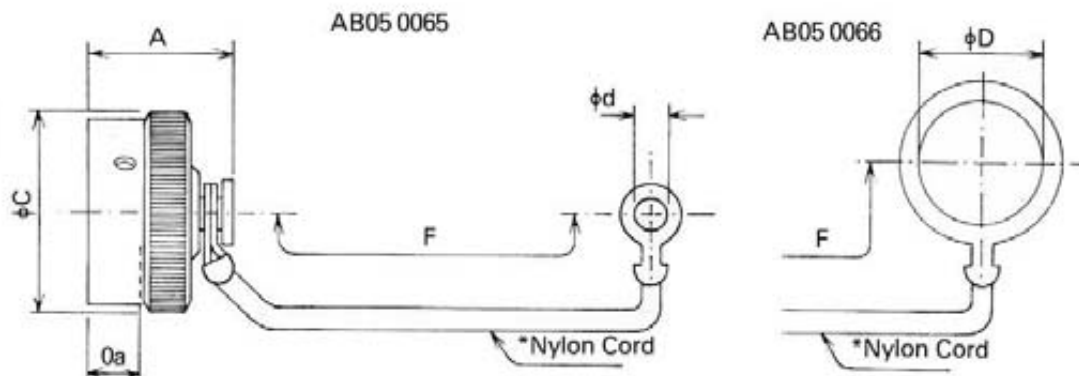


— Metric
 — Imperial

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

AB Style - AB05 - 0065, Cover for Square Flange Receptacle

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

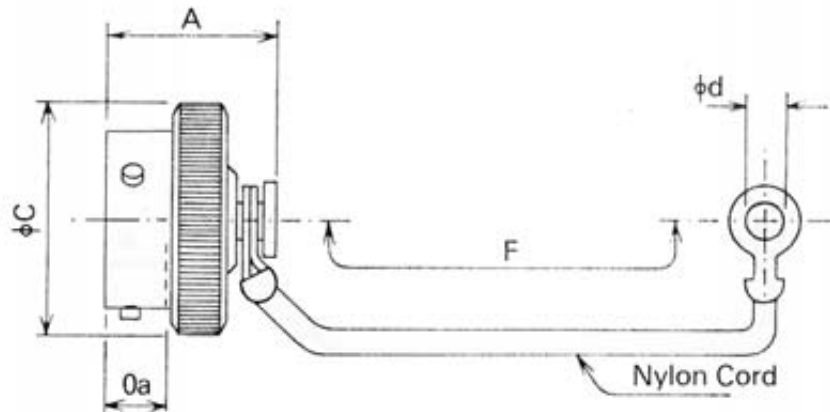


*Part Number for Cover with Ball Chain Attachment is AB05 0067 or AB05 0068 respectively.

Metric Imperial

HOUSING (SHELL) SIZE	A max.	ϕC max.	ϕd min.	ϕD min.	F approx.	Oa min.	MASS MAX. G
08	20.1	18.1	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	

AB Style - AB05 - 0070, Cover for Plug
BS Style - A2012

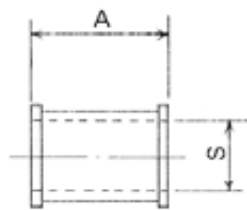


Part Number for Cover with Ball Chain Attachment is AB05 0072.

☐ —Metric ☐ —Imperial

HOUSING (SHELL) SIZE	A max.	φC max.	φd min.	F approx.	Oa min.	MASS
					OVERLAP	MAX. G
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	

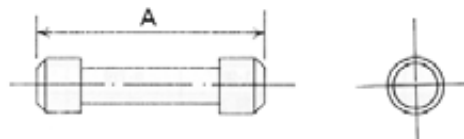
AB Style - AB05 Size - 430-0-00-AC Cable Grommet
BS style - A2011



—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	

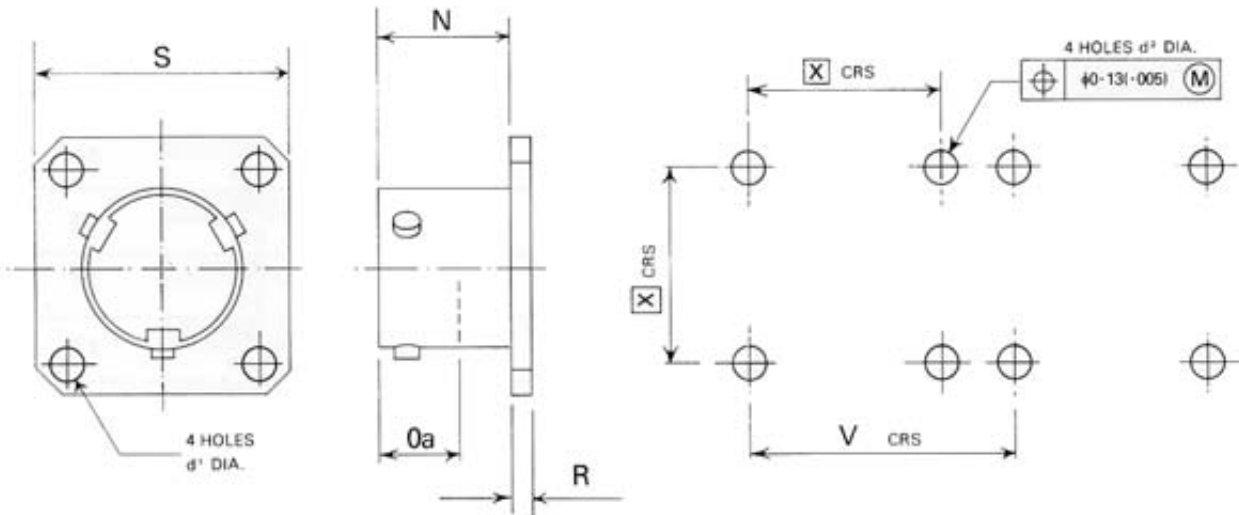
AB Style:—AB05 Size—240-0-00-AC Filler Plug
BS Style:—A2202



—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	

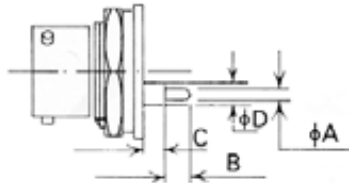
AB Style - AB05 - 2300, Square Flange Stowage Receptacle
BS Style - A2203



— 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 0.493	7.5 0.30	2.0 0.08	22.6 0.89	15.09 0.594	21.1 0.83	3.05 0.120	3.12 0.123
10	12.5 0.493	7.5 0.30	2.0 0.08	25.4 1.00	18.26 0.719	24.4 0.96	3.05 0.120	3.12 0.123
12	12.5 0.493	7.5 0.30	2.0 0.08	29.7 1.17	20.62 0.812	26.7 1.05	3.05 0.120	3.12 0.123
14	12.5 0.493	7.5 0.30	2.0 0.08	33.0 1.30	23.01 0.906	29.2 1.15	3.05 0.120	3.12 0.123
16	12.5 0.493	7.5 0.30	2.0 0.08	38.1 1.50	24.61 0.969	31.5 1.24	3.05 0.120	3.12 0.123
18	12.5 0.493	7.5 0.30	2.0 0.08	40.9 1.61	26.97 1.062	33.8 1.33	3.05 0.120	3.12 0.123
20	14.9 0.587	9.1 0.36	2.8 0.11	43.9 1.73	29.36 1.156	37.0 1.46	3.05 0.120	3.12 0.123
22	14.9 0.587	9.1 0.36	2.8 0.11	46.7 1.84	31.75 1.250	40.1 1.59	3.05 0.120	3.12 0.123
24	15.7 0.620	9.1 0.36	2.8 0.11	50.0 1.97	34.93 1.375	43.4 1.71	3.73 0.147	3.81 0.150

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	

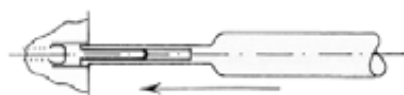
DESCRIPTION	PART NO.
Crimp Tool	MS 3191A
Positioner Size 20 Pin and Socket	611062

Insertion and Extraction Tool

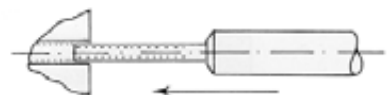


Part Number AB06-0042-00-0000-15

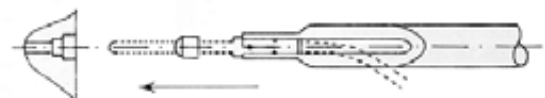
ASSEMBLY



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.)

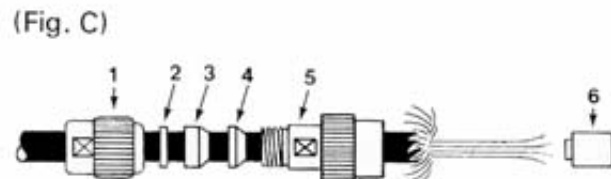
Size	Dimension A
08	34.93 (1.375)
10	36.51 (1.437)
12-14	41.27 (1.625)
16-20	44.45 (1.750)
22-24	49.21 (1.937)



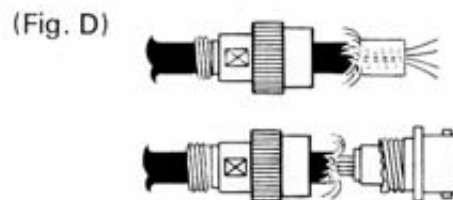
- Strip 5.3 mm (0.210") to 6.1 mm (0.240") of insulation from each wire and Tin Ends. (Fig. B.)



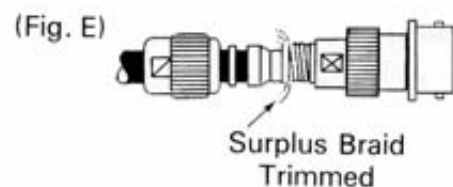
- Slide onto the cable (1) Nut; (2) Washer; (3) Gasket; (4) Braid Clamp; (5) Clamp Body; (6) Grommet. (Fig. C.)



- 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.)



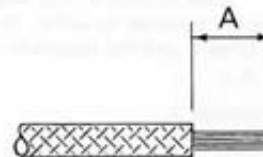
Assembly Procedure for Straight Outlets AB05 0030

AB05 0030 EXTERNALLY SCREENED CABLE TYPES B AND Q

- 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)

(Fig. A)



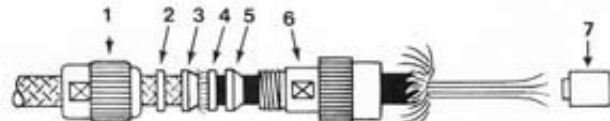
- Strip 5·3 mm (0·210) to 6·1 mm (0·240) of insulation from each wire and Tin Ends. (Fig. B.)

(Fig. B)



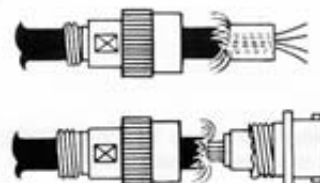
- Slide onto the cable (1) Nut; (2) Washer; (3) Male Braid Clamp. Pull back Braid as far as possible. Slide on item (4) Female Braid Clamp; (5) Gasket; (6) Clamp Body; (7) Grommet. (Fig. C.)

(Fig. C)



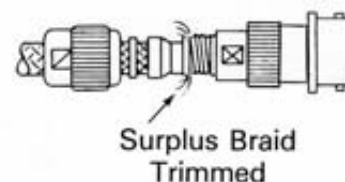
- Insert individual wires into Grommet. Slide Grommet back as far as possible. Insert Tinned Ends into Contacts and solder. Slide Grommet over Contacts pushing firmly against rear of Connector Insert. (Fig. D.)

(Fig. D)



- 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.)

(Fig. E)



AB05 Connector Cross Reference Table

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	