

AB05/6

Mil-C-26482 Series 1 Style

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DTL
The right connection

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TT electronics
AB Connectors Limited

AB Connectors

Company Profile

Operating from the principal site in South Wales, U.K., AB Connectors Limited, a subsidiary of TT electronics plc., is one of the recognised market leaders in design, test and manufacture of harsh environment interconnection systems, bespoke harness assemblies and equipment sub-units.

With a satellite assembly facility in North Carolina, USA, and a co-ordinated global sales and distribution network, AB Connectors Ltd. offers an unrivalled service to both engineers and buyers alike.

Through a commitment to a structured new product introduction process, AB Connectors is continuing investment in research and development of new materials and processes, surface treatments and the very latest manufacturing technology and techniques to ensure the products meet the most exacting standards encountered in the modern Military, Mass Transportation and Industrial market p aces

Quality system approvals include BS/EN/ISO 9001 and IRIS along with product approvals to BS9000, IECQ and CECC. As a result of these qualifications, AB Connectors have been awarded several major customer approvals and accreditations

AB Connectors total commitment to providing customers with high levels of service, cost effec iveness, quality and innovation solutions in interconnection products, make it the ideal first choice supply partner.







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AB05
Miniature Bayonet Coupling Connectors

Pages 2 - 35

AB05 10-76
Miniature Bayonet Coupling Connectors

Pages 36 - 41

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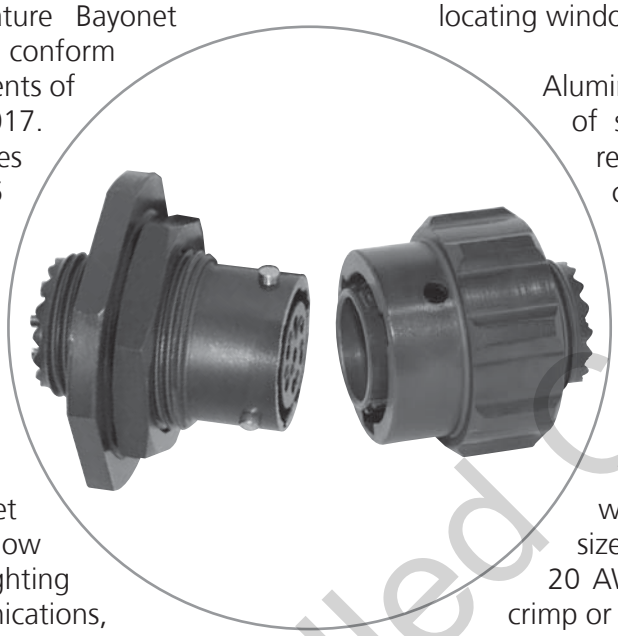
AB06
Audio Miniature Bayonet Lock Connectors

Pages 42 - 60

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07.07 AB Connectors Ltd, Mtg, AB05 Catalogue NW

AB05
Miniature Bayonet Coupling Connectors



The AB05 Series Miniature Bayonet Coupling connectors fully conform to the stringent requirements of British Standard 9522 F0017. This specification supercedes Defence Standard 59-35 (Part 1), which was itself based on the American Military Specification Mil-C-26482 Series 1 (solder).

Initially developed for aircraft applications, miniature bayonet coupling connectors are now extensively used in fighting vehicles, military communications, professional audio and general industrial markets where high reliability, miniaturisation and cost effectiveness are of prime importance.

AB05 series connectors are interchang able and intermateable with similar connectors of British, European or American origin.

Positive coupling is indicated by an a dible click and by visual alignment of the three bayonet pins with locating windows in the coupling nut.

Aluminium alloy shells and a choice of surface finishes, offer a high resistance to corrosion. A choice of colour is available for occasions where the connector has to match the finish of the equipment

Insulators are polychloroprene with an operating temperature range of between -55ºC to 125ºC. Contact arrangements with from 2 to 61 ways feature size 16 AWG (13 amps) or size 20 AWG (7.5 amps) solder bucket, crimp or P.C.B contacts.

Sealing against water and dust ingress is achieved between mating connectors by using a square section gasket between shells, by a peripheral seal on the insulators and by individual wire seal grommets.

In response to modern environmental considerations, AB05 connectors can be specified with alternative cadmium free surface finishes.



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AB05
Miniature Bayonet Coupling Connectors

Contents: **Page:**

AB05 Miniature Bayonet Coupling Connectors **2-35**
Technical Information 4
Part No. Explanation 5
Arrangement Specifications 6
Contact Arrangements 7-8
Receptacles;
AB05 1000: cable connecting receptacle 9
AB05 2000: receptacle, square flange with accessory thread 10
AB05 2100: receptacle, square flange w/o accessory thread 11
AB05 3100: receptacle, jam nut w/o accessory thread 12
AB05 3200: receptacle, jam nut with accessory thread 13
Plugs;
AB05 6000: plug, knurled coupling nut 14
AB05 6100: plug, knurled coupling nut with grounding fingers 15
AB05 6200: plug, coarse ribbed coupling nut 16
AB05 6300: plug, coarse ribbed coupling nut with grounding fingers 17
Accessories;
Accessories Part No. Explanation 18
AB05 0027: strain relief clamp 19
AB05 0029: straight outlet for internally screened cables 20
AB05 0030: straight outlet for externa ly sc eened cables 21
AB05 0040: grommet nut 22
AB05 0050: general duty adapto 23
AB05 0055: sealing gland 24
AB05 0062: sealing gland with in egral cable clamp 25
AB05 0065 / AB05 0066: cover for square flange receptacle 26
AB05 0070: cover for p ug 27
AB05 0075: screen and heat shrink adaptor 28
AB05 002*: screening heat shrink adaptor, sealing type 29
AB05 size240-0-00-AC: filler plug 30
AB05 size382-0-00-AC: panel gasket 30
AB05 size430-0-00-AC: cable grommet 31
AB05 2300: stowage receptacles 31
AB05 Printed Circuit Board Contacts 32
AB05 Crimp Contacts and Assembly Tools 33
Assembly Procedures for Cables used on AB05 0029 and 0030 Straight Outlets 34-35

AB05 10-76 Miniature Bayonet Coupling Connectors **36-41**

AB06 Audio Miniature Bayonet Lock Connectors Range **42-60**

Safety Information **61**

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AB05
technical information

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

Shell:	Aluminium alloy
Insulator:	Polychloroprene
Grommet:	Polychloroprene
Contacts:	Brass
Accessories Hardware:	Aluminium alloy

Plating Finishes

Shell:	Conductive, olive drab over cadmium plate (alternatives available on request)
Contacts:	Gold over nickel
Accessory Hardware:	Conductive, olive drab over cadmium plate (alternatives available on request)

Technical Data

Temperature Range: -55ºC to +125ºC

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 (100g$_n$) for 6 milliseconds.
b) Vibration: 10Hz-5000 Hz, 0.75 mm/10g$_n$ duration; 30 hours (including 1 hour at -55ºC and 3 hours at 125ºC).
c) Acceleration: 490 m/s^2 (50g$_n$)
d) Humidity severity: 44 millibars
e) Bump severity: 390 m/s^2 (40g$_n$), 4000 ± 10 bumps
f) Mechanical endurance: 500 matings
g) High temperature:
   Long term: 1000 hours at 85ºC
   Short term: 250 hours at 125ºC

Orientation: To prevent mismating or cross-plugging, shell to shell, key to 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.

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AB05
part number explanation

To illustrate the ordering procedure, part number AB05100010PF00 is shown in the table below:**

Product Range:		**AB05**	**10**	**00**	**10**	******	**P**	**F**	**00**
Shell Style:	10 : Cable connecting receptacle 20 : Square flange receptacle with accessory thread 21 : Square flange receptacle without accessory thread 31 : Jam nut receptacle without accessory thread 32 : Jam nut receptacle with external accessory thread 60 : Plug with knurled coupling nut 61 : Plug with knurled coupling nut & spring grounding fingers 62 : Plug with coarse ribbed coupling nut 63 : Plug with coarse ribbed coupling nut & 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) 62 : Sealing gland with integral cable cl mp 75 : Screen and heat shrink adapt 2* : Screening heat shrink adaptor, se ling type (* Indicates Entry Size, see page 29)								
Shell size:	08, 10, 12, 14, 16, 18, 20, 2 24 (In rease in sixteenths of an inch)								
Contact layout:	** See pages 7-8								
Contact type:	P : Pin S : Socket								
Orientation:	N, B, C, E & F (Ins t orientation available only for replacement of MIL-C-26482 types. Please consult factory)								
Modification:	00 : Sol er contacts 01 : C imp contacts. (Size 20, small bore, Ø 0.84) (Bore Ø 1.75, Size 16 only) 02 : Cr mp contacts. (Size 20, large bore, Ø 1.24) (No Size 16 contact) 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 P.C.B. contacts 60 : Ink marked insert rears. (For additional modifications and special requirements please consult factory.)								

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AB05
arrangement specifications

Shell Size	Contact Arrangement	No. of Contacts	Contact Size and Current Rating (AMPS) - at 85°C Ambient				Shell Orientation	Service Rating
			20	16	12	C0-AX		
08	33	3	3 x 5 amps	---	---	---	N, E, F	1
08	04	4	4 x 5 amps	---	---	---	N, E, F	1
08	98	3	3 x 5 amps	---	---	---	N, E, F	1
10	02	2	---	2 x 10 amps	---	---	N, B, C, E, F	2
10	06	6	6 x 5 amps	---	---	---	N, B, C, E, F	1
10	07	7	7 x 5 amps	---	---	---	N, B, C, E, F	1
12	03	3	---	3 x 10 amps	---	---	N, B, C, E, F	2
12	08	8	8 x 5 amps	---	---	---	N, B, C, E, F	1
12	10	10	10 x 5 amps	---	---	---	N, B, C, E, F	1
12	14	14	14 x 5 amps	---	---	---	N, B, C, E, F	1
14	02	2	---	---	2 x 20 amps	---	N, B, C, E, F	2
14	04	4	---	---	4 x 20 amps	---	N, B, C, E, F	2
14	05	5	---	5 x 10 amps	---	---	N, B, C, E, F	2
14	12	12	8 x 5 amps	4 x 10 amps	---	---	N, B, C, E, F	1
14	15	15	14 x 5 amps	1 x 10 amps	---	---	N, B, C, E, F	1
14	19	19	19 x 5 amps	---	---	---	N, B, C, E, F	1
16	08	8	---	8 x 10 amps	---	---	N, B, C, E, F	2
16	26	26	26 x 5 amps	---	---	---	N, B, C, E, F	1
16	19†	19	15 x 5 amps	4 x 10 amps	---	---	N, B, C, E, F	1
16	CX	17	16 x 5 amps	---	---	1 x cable	N, B, C, E, F	1
18	11	11	---	11 x 10 amps	---	---	N, B, C, E, F	2
18	32	32	32 x 5 amps	---	---	---	N, B, C, E, F	1
20	41	41	41 x 5 amps	---	---	---	N, B, C, E, F	1
20	39†	39	37 x 5 amps	2 x 10 amps	---	---	N, B, C, E, F	1
22	55	55	55 x 5 amps	---	---	---	N, B, C, E, F	1
24	61	61	61 x 5 amps	---	---	---	N, B, C, E, F	1

† Consult factory for availability

	Sea Level 1013 mbar		8,500 m (27800 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

Current Service Ratings

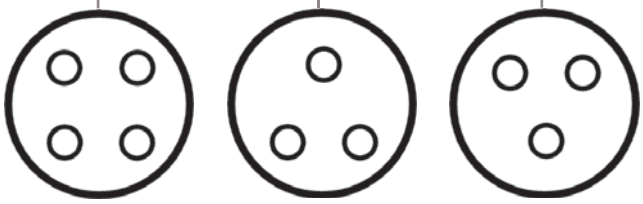
Contact Size	Max. Current	* Rated Current
20 AWG	7.5A	5A
16 AWG	13A	10A
12 AWG	23A	20A

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

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AB05
contact arrangements

Shell Size 8



08-04
Service rating 1
4 Contacts,
Size 20

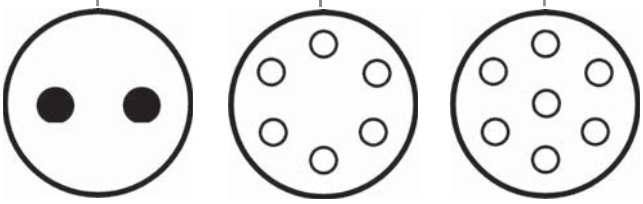
08-33
Service rating 1
3 Contacts,
Size 20

08-98
Service rating 1
3 Contacts,
Size 20

- Size 20 Contacts
- Size 16 Contacts
- Size 12 Contacts
- Co-Axial Contact for RG316/U

† Consult factory for availability

Shell Size 10

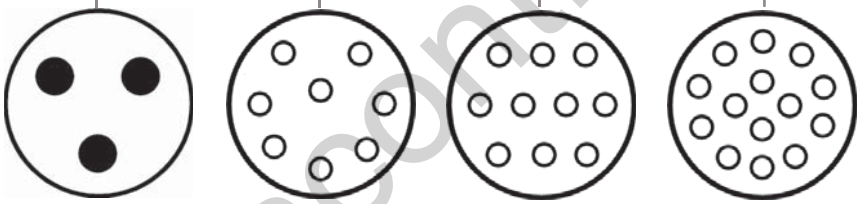


10-02
Service rating 2
2 Contacts,
Size 16

10-06
Service rating 1
6 Contacts,
Size 20

10-07
Service rating 1
7 Contacts,
Size 20

Shell Size 12



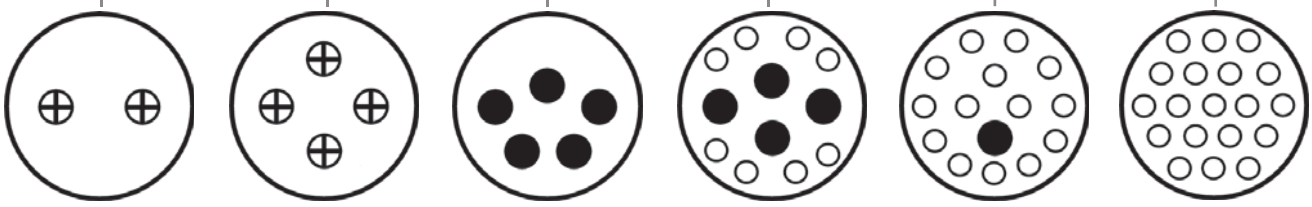
12-03
Service rating 2
3 Contacts,
Size 16

12-08
Service rating 1
8 Contacts,
Size 20

12-10
Service rating 1
10 Contacts,
Size 20

12-14
Service rating 1
14 Contacts,
Size 20

Shell Size 14



14-02
Service rating 2
2 Contacts,
Size 12

14-04†
Service rating 1
4 Contacts,
Size 12

14-05
Service rating 2
5 Contacts,
Size 16

14-12
Service rating 1
8 Contacts,
Size 16
4 Contacts,
Size 20

14-15
Service rating 1
14 Contacts,
Size 20
1 Contact,
Size 16

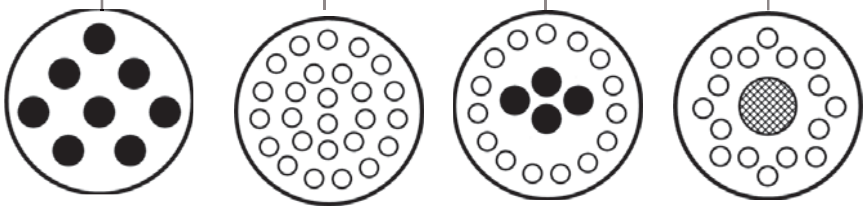
14-19
Service rating 1
19 Contacts,
Size 20

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† Consult factory for availability

AB05
contact arrangements

Shell Size 16



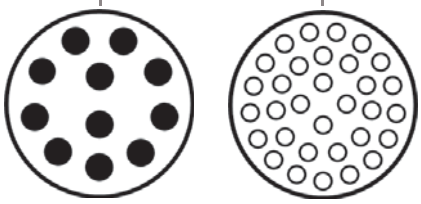
16-08
Service rating 2
8 Contacts,
Size 16

16-26
Service rating 1
26 Contacts,
Size 20

16-19†
Service rating 1
15 Contacts,
Size 20
4 Contacts,
Size 16

16-CX
Service rating 1
17 Contacts,
Size 20
1 Co-Axial Contact,
for RG316/U

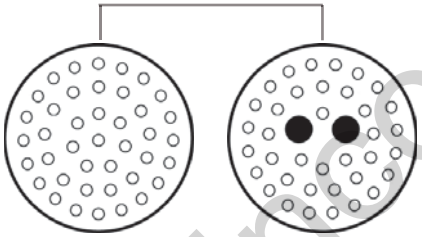
Shell Size 18



18-11
Service rating 2
11 Contacts,
Size 16

18-32
Service rating 1
32 Contacts,
Size 20

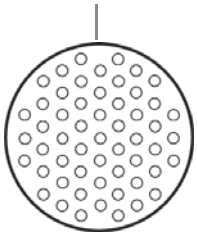
Shell Size 20



20-41
Service rati g 1
41 Contacts,
Size 20

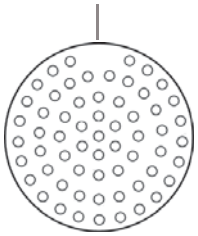
20-39†
Service rating 1
37 Contact,
Size 20
2 Contacts,
Size 16

Shell Size 22



22-55
Service rating 1
55 Contacts,
Size 22

Shell Size 24



24-61
Service rating 1
61 Contact,
Size 24

Size 20 Contacts

Size 16 Contacts

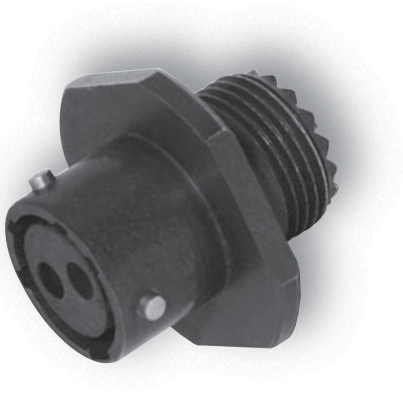
Size 12 Contacts

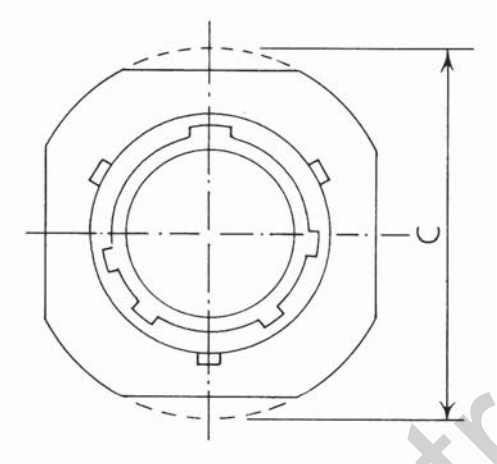
Co-Axial Contact for RG316/U

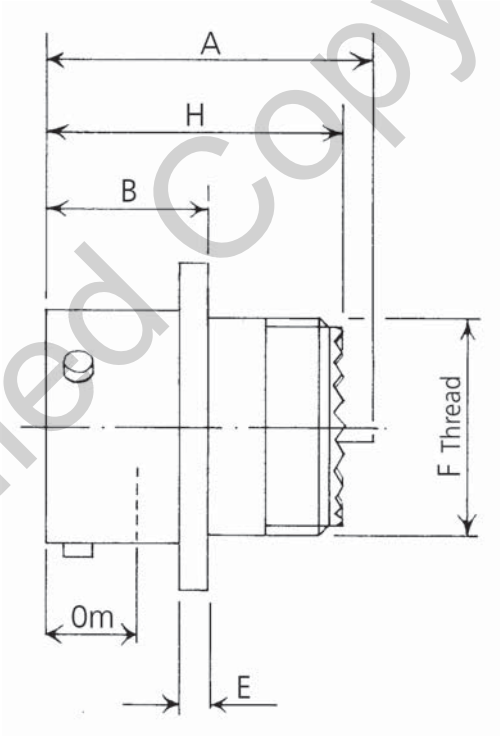
† Consult factory for availability

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AB05-1000
cable connecting receptacle







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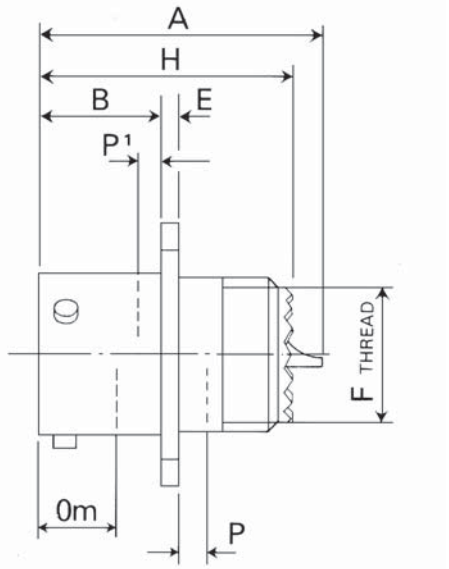
Shell Size	A max.	B max.	C Ø max.	E max.	F thread UNEF 2A	H max.	Om min. overlap	MASS max. G
08	26.40	13.80	24.40	2.80	7/16 -28	26.0	7.30	8
10	26.40	13.80	27.70	2.80	9/16 -24	26.0	7.30	13
12	26.40	13.80	30.0	2.80	11/16 -24	26.0	7.30	17
14	26.40	13.80	32.30	2.80	13/16 -20	26.0	7.30	24
16	26.40	13.80	34.80	2.80	15/16 -20	26.0	7.30	30
18	26.40	13.80	37.10	2.80	1 1/16 -18	26.0	7.30	37
20	30.40	17.80	40.40	3.30	1 3/16 -18	28.50	8.90	59
22	30.40	17.80	43.40	3.30	1 5/16 -18	28.50	8.90	72
24	30.40	18.60	46.70	3.30	1 7/16 -18	30.0	8.90	85

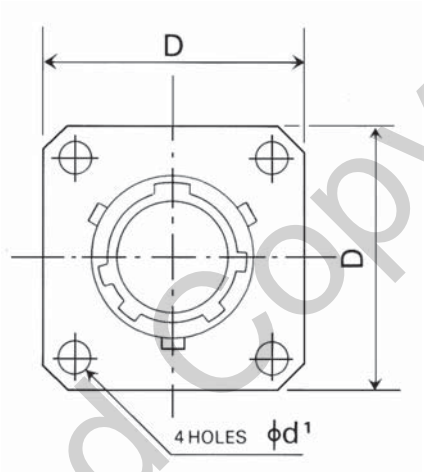
Thread measurement is imperial, all other measurements in mm.

AB05-2000

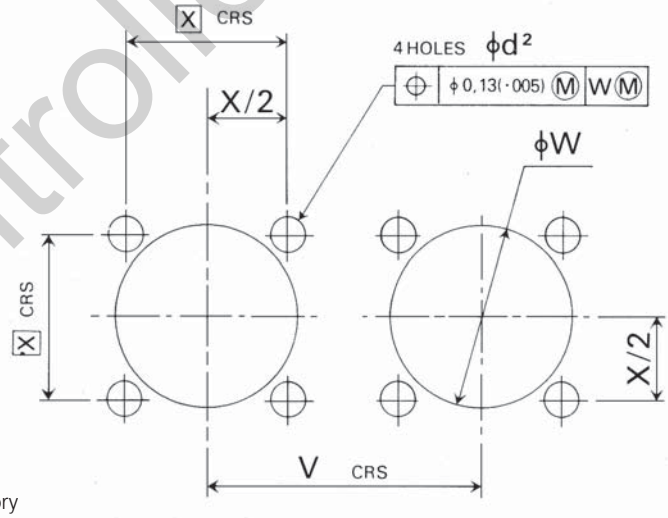
receptacle, square flange with accessory thread







Panel Cut Out Dimensions:



*P Max. Panel Thickness
P Min. Clearance Distan e For M ting Connector
Size 8 to 18 2,0 (08)
Siz 20 to 24- 3 (0,21)
*P May be incr ased if 'W is enlarged to clear accessory

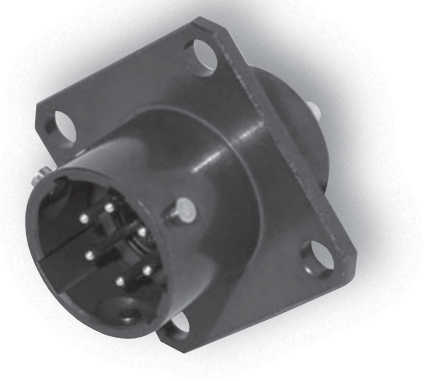
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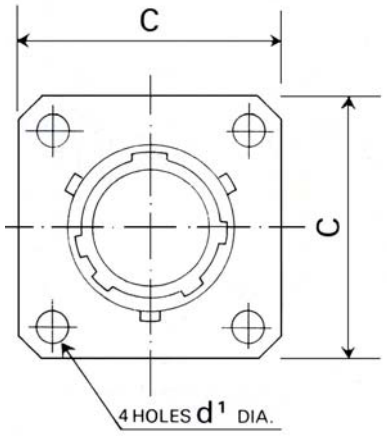
Shell Size	A max.	B max.	D sq. max.	E max.	F thread UNEF 2A	H max.	Om min. overlap	d1 Ø min.	d2 Ø min.	V min.	W Ø ±0.13 (.005)	X (TP)	MASS max. G
08	26.40	11.80	21.10	2.0	7/16 -28	26.0	7.30	3.05	3.25	22.60	14.43	15.09	10
10	26.40	11.80	24.40	2.0	9/16 -24	26.0	7.30	3.05	3.25	25.40	17.40	18.26	13
12	26.40	11.80	26.70	2.0	11/16 -24	26.0	7.30	3.05	3.25	29.70	21.95	20.62	16
14	26.40	11.80	29.30	2.0	13/16 -20	26.0	7.30	3.05	3.25	33.0	25.12	23.01	22
16	26.40	11.80	31.50	2.0	15/16 -20	26.0	7.30	3.05	3.25	38.1	28.27	24.61	27
18	26.40	11.80	33.80	2.0	1 1/16 -18	26.0	7.30	3.05	3.25	40.90	31.45	26.97	38
20	30.40	15.0	37.10	2.8	1 3/16 -18	28.5	8.90	3.05	3.25	43.90	34.62	29.36	52
22	30.40	15.0	40.20	2.8	1 5/16 -18	28.5	8.90	3.05	3.25	46.70	37.80	31.75	65
24	30.40	15.80	43.50	2.8	1 7/16 -18	30.0	8.90	3.73	3.86	50.0	41.02	34.93	77

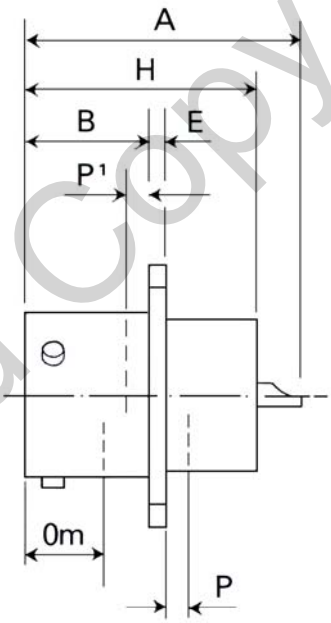
Thread measurement is imperial, all other measurements in mm.

AB05-2100

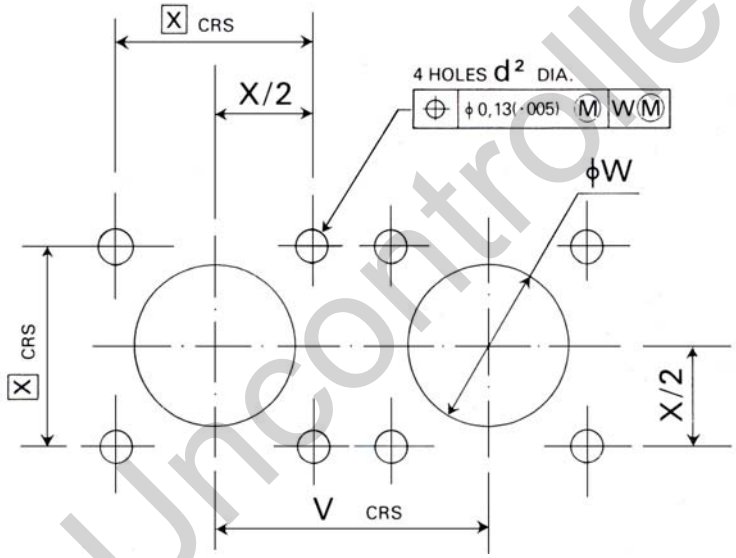
receptacle, square flange
without accessory thread







Panel Cut Out Dimensions:



P = Panel thickness (front mounting)
P1 = Panel thickness (rear mounting)

Uncontrolled Copy

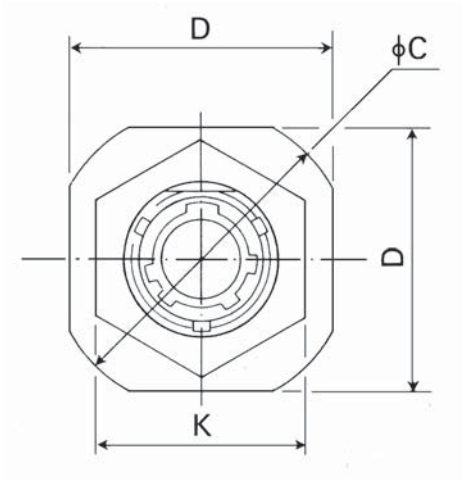
Shell Size	A max.	B max.	C max.	E max.	H max.	V CRS min.	W Ø min.	X CRS (TP)	d1 Ø ±0.13(.005)	d2 Ø ±0.13(.005)	Om min. overlap	P max.	P1 max.	MASS max. G
08	26.40	11.70	21.10	2.0	21.60	22.06	14.43	15.09	3.05	3.12	7.30	8.50	2.21	10
10	26.40	11.70	24.30	2.0	21.60	25.04	17.40	18.26	3.05	3.12	7.30	8.50	2.21	13
12	26.40	11.70	26.60	2.0	21.60	29.07	21.95	20.62	3.05	3.12	7.30	8.50	2.21	18
14	26.40	11.70	29.0	2.0	21.60	33.0	25.12	23.01	3.05	3.12	7.30	8.50	2.21	24
16	26.40	11.70	31.50	2.0	21.60	38.10	28.27	24.61	3.05	3.12	7.30	8.50	2.21	30
18	26.40	11.70	33.80	2.0	21.60	40.09	31.45	26.97	3.05	3.12	7.30	8.50	2.21	39
20	30.40	14.80	37.10	2.80	27.20	43.90	34.62	29.36	3.05	3.12	8.90	8.50	5.38	55
22	30.40	14.80	40.20	2.80	27.20	46.70	37.80	31.75	3.05	3.12	8.90	8.50	5.38	65
24	30.40	15.70	43.50	2.80	28.60	50.0	41.02	34.93	3.73	3.81	8.90	8.50	5.38	77

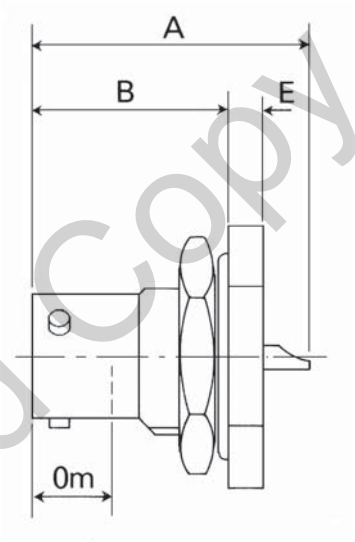
All measurements in mm.

AB05-3100

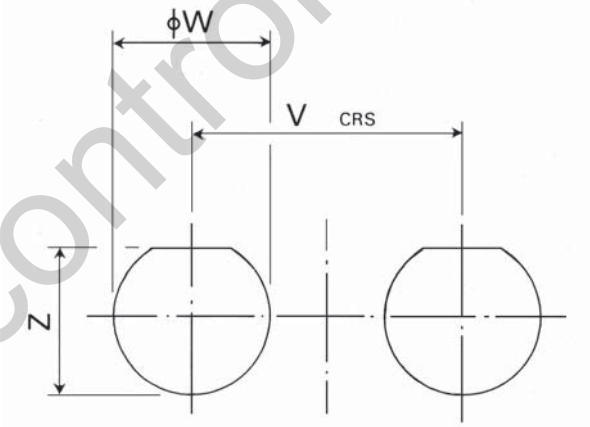
receptacle, jam nut
without accessory thread







Panel Cut Out Dimensions



Uncontrolled Copy

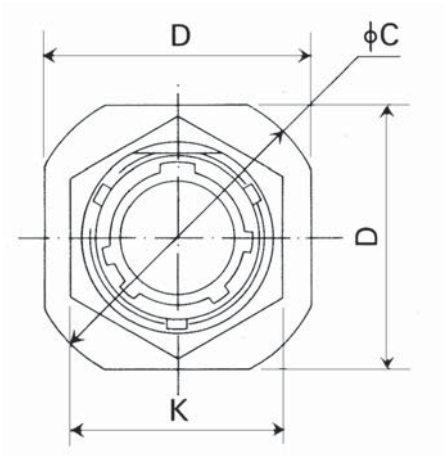
Shell Size	A max.	B max.	C Ø max.	D max.	E max.	K max.	V min.	W Ø ±0.13(.005)	Z ±0.13(.005)	Om min. overlap	Panel Thickness max.	Panel Thickness min.	MASS max. G
08	26.40	18.60	27.50	24.40	3.60	19.60	24.70	14.53	13.72	7.30	3.30	1.50	17
10	26.40	18.60	30.80	27.50	3.60	22.90	28.0	17.70	16.69	7.30	3.30	1.50	20
12	26.40	18.60	35.60	32.30	3.60	27.50	32.80	22.48	21.03	7.30	3.30	1.50	24
14	26.40	18.60	38.70	35.60	3.60	30.80	35.90	25.65	24.18	7.30	3.30	1.50	34
16	26.40	18.60	42.0	38.70	3.60	33.80	39.20	28.83	27.33	7.30	3.30	1.50	43
18	26.40	18.60	45.0	42.0	3.60	37.10	43.0	32.00	30.61	7.30	3.30	1.50	47
20	30.40	23.10	49.80	46.50	4.40	40.20	47.80	35.18	33.73	8.90	6.40	1.50	63
22	30.40	23.10	52.90	49.80	4.40	49.50	50.80	38.35	36.81	8.90	6.40	1.50	74
24	30.40	24.10	56.20	52.90	4.40	46.50	54.20	41.53	40.03	8.90	6.40	1.50	87

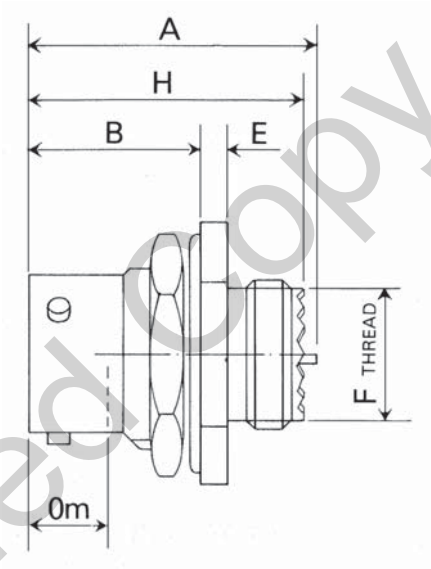
All measurements in mm.

AB05-3200

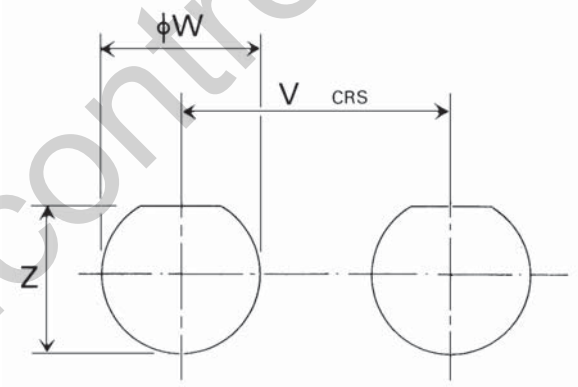
receptacle, jam nut
with external accessory thread







Panel Cut Out Dimensions:



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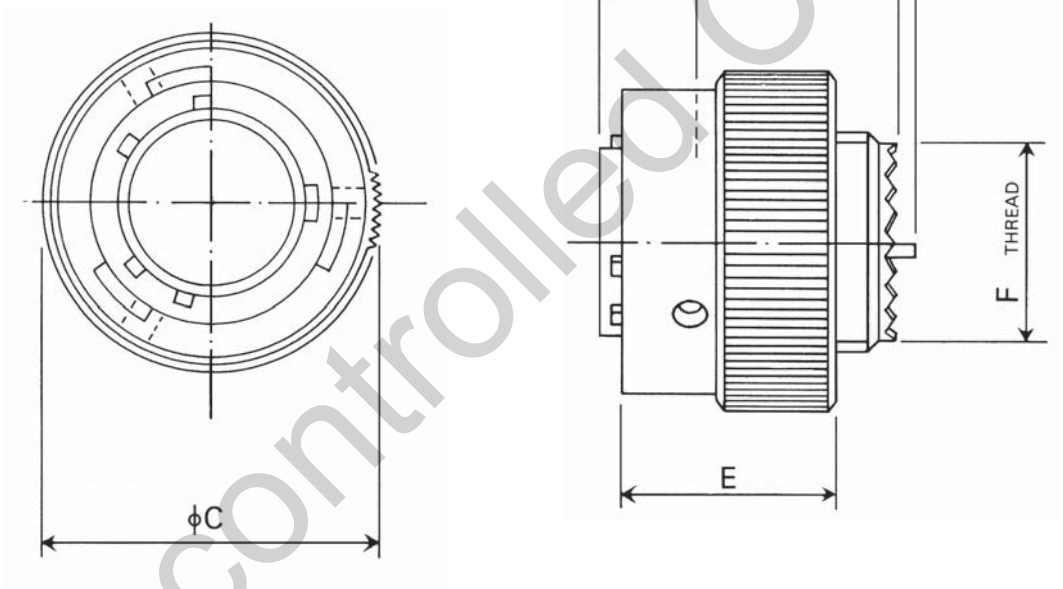
Shell Size	A max.	B max.	C Ø max.	D max.	E max.	F thread UNEF 2A	H max.	K max.	Om min. overlap	Panel Thickness max.	Panel Thickness min.	V	W Ø ±0.13(.005)	Z ±0.13(.005)	MASS max. G
08	26.40	15.80	27.50	24.40	3.60	7/16 -28	26.0	19.60	7.30	3.30	1.50	24.70	14.53	13.72	21
10	26.40	15.80	30.80	27.50	3.60	9/16 -24	26.0	22.90	7.30	3.30	1.50	28.0	17.70	16.89	27
12	28.40	15.80	35.60	32.30	3.60	11/16 -24	26.0	27.50	7.30	3.30	1.50	32.80	22.48	21.03	32
14	26.40	15.80	38.70	35.60	3.60	13/16 -20	26.0	30.80	7.30	3.30	1.50	35.90	25.65	24.18	47
16	26.40	15.80	42.0	38.70	3.60	15/16 -20	26.0	33.80	7.30	3.30	1.50	39.20	28.03	27.33	58
18	26.40	15.80	45.0	42.0	3.60	1 1/16 -18	26.0	37.10	7.30	3.30	1.50	43.0	32.0	30.61	62
20	30.40	19.60	49.60	46.50	3.60	1 3/16 -18	28.50	40.20	8.90	6.40	1.50	47.80	35.18	33.73	84
22	30.40	19.60	52.90	49.80	4.40	1 5/16 -18	28.50	43.50	8.90	6.40	1.50	50.80	38.35	36.81	98
24	30.40	20.90	56.70	52.90	4.40	1 7/16 -18	30.0	46.50	8.90	6.40	1.50	54.20	41.53	40.03	116

Thread measurement is imperial, all other measurements in mm.

AB05-6000

plug, knurled coupling nut





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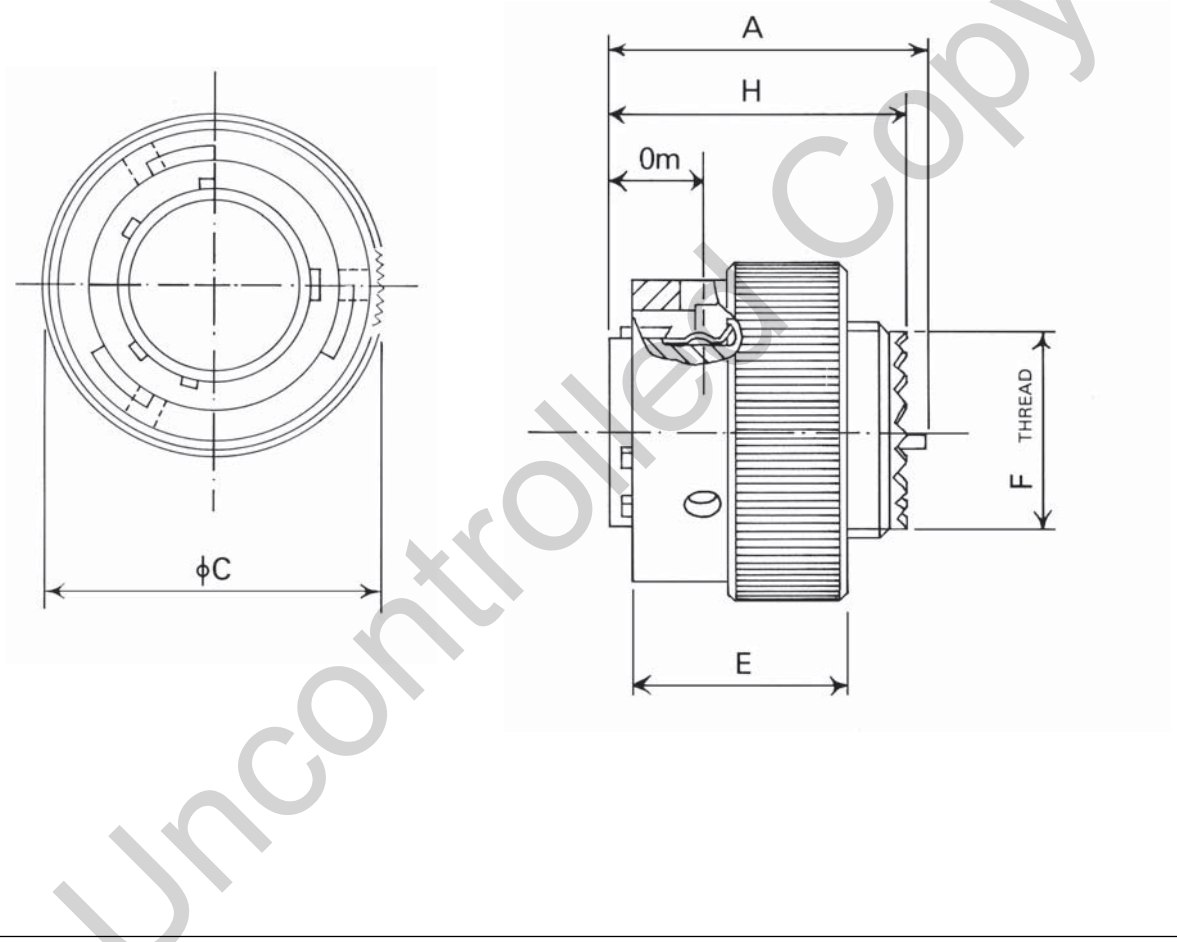
Shell Size	A max.	C Ø max.	E max.	F thread UNEF 2A	H max.	Om min. overlap	MASS max. G
08	25.40	19.10	19.30	7/16 -28	24.40	7.30	12
10	25.40	21.80	19.30	9/16 -24	24.40	7.30	15
12	25.40	26.40	19.30	11/16 -24	24.40	7.30	20
14	25.40	30.0	19.30	13/16 -20	24.40	7.30	27
16	25.40	33.30	19.30	15/16 -20	24.70	7.30	35
18	25.40	35.60	19.30	1 1/16 -18	24.90	7.30	45
20	27.80	39.10	19.30	1 3/16 -18	26.20	8.90	56
22	27.80	42.20	19.30	1 5/16 -18	26.20	8.90	65
24	27.80	45.20	20.40	1 7/16 -18	28.0	8.90	80

Thread measurement is imperial, all other measurements in mm.

AB05-6100

plug, knurled coupling nut
with grounding fingers





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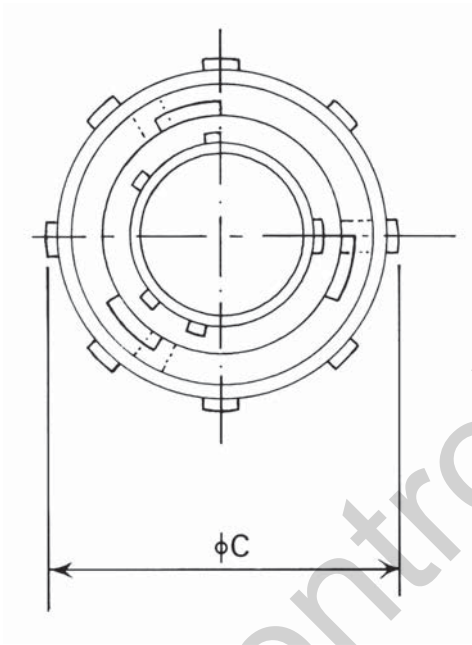
Shell Size	A max.	C Ø max.	E max.	F thread UNEF 2A	H max.	Om min. overlap	MASS max. G
08	25.40	19.10	19.30	7/16 -28	24.40	7.30	12
10	25.40	21.80	19.30	9/16 -24	24.40	7.30	15
12	25.40	26.40	19.30	11/16 -24	24.40	7.30	20
14	25.40	30.0	19.30	13/16 -20	24.40	7.30	27
16	25.40	33.30	19.30	15/16 -20	24.70	7.30	35
18	25.40	35.60	19.30	1 1/16 -18	24.90	7.30	45
20	27.80	39.10	19.30	1 3/16 -18	26.20	8.90	56
22	27.80	42.20	19.30	1 5/16 -18	26.20	8.90	65
24	27.80	45.20	20.40	1 7/16 -18	28.0	8.90	80

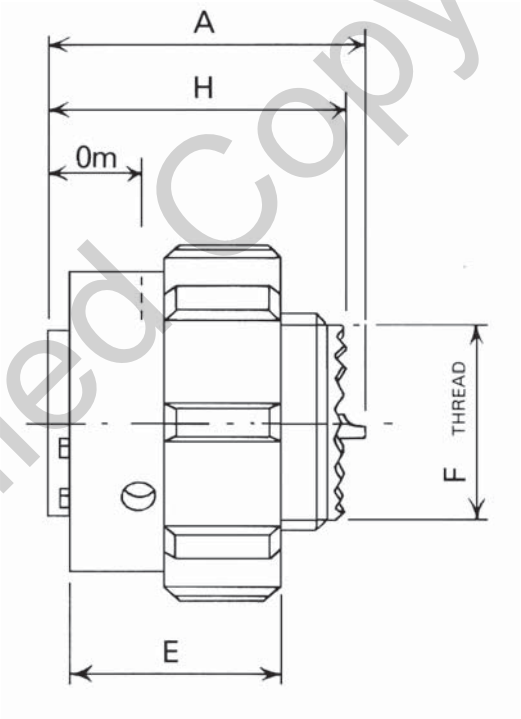
Thread measurement is imperial, all other measurements in mm.

AB05-6200

plug, course ribbed coupling nut







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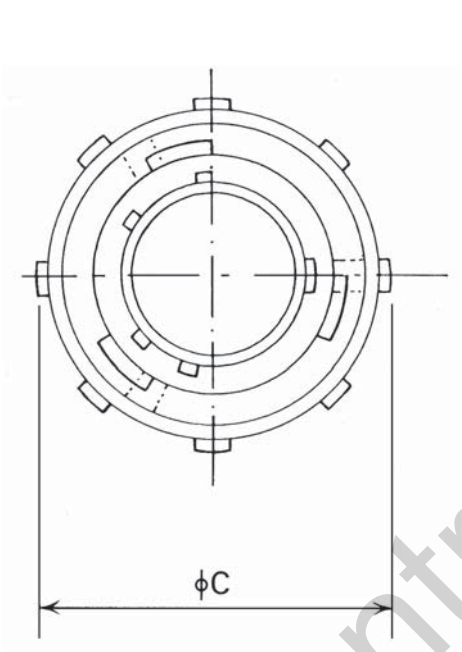
Shell Size	A max.	C Ø max.	E max.	F thread UNEF 2A	H max.	Om min. overlap	MASS max. G
08	25.40	22.10	20.40	7/16 -28	24.40	7.30	13
10	25.40	24.90	20.40	9/16 -24	24.40	7.30	17
12	25.40	29.30	20.40	11/16 -24	24.40	7.30	22
14	25.40	32.60	20.40	13/16 -20	24.40	7.30	28
16	25.40	37.60	20.40	15/16 -20	24.70	7.30	38
18	25.40	40.40	20.40	1 1/16 -18	24.90	7.30	46
20	27.80	43.50	20.40	1 3/16 -18	26.20	8.90	59
22	27.80	46.30	20.40	1 5/16 -18	26.20	8.90	63
24	27.80	49.60	21.40	1 7/16 -18	28.0	8.90	83

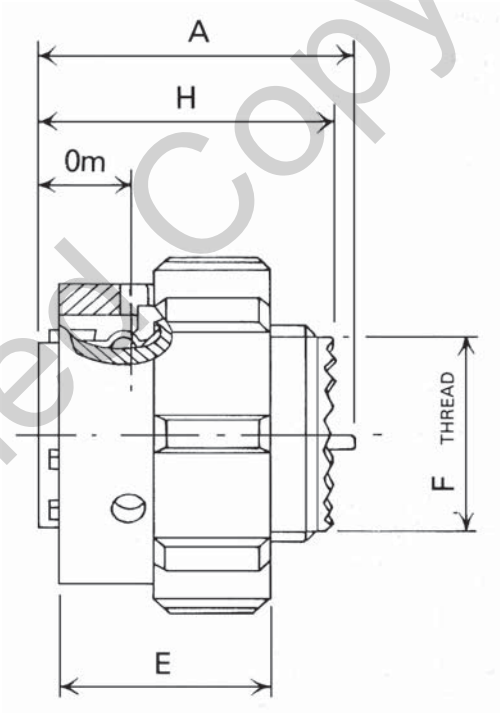
Thread measurement is imperial, all other measurements in mm.

AB05-6300

plug, coarse ribbed coupling nut
with grounding fingers







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Shell Size	A max.	C Ø max.	E max.	F thread UNEF 2A	H max.	Om min. overlap	MASS max. G
08	25.40	22.10	20.40	7/16 -28	24.40	7.30	13
10	25.40	24.90	20.40	9/16 -24	24.40	7.30	17
12	25.40	29.30	20.40	11/16 -24	24.40	7.30	22
14	25.40	32.60	20.40	13/16 -20	24.40	7.30	28
16	25.40	37.60	20.40	15/16 -20	24.70	7.30	38
18	25.40	40.40	20.40	1 1/16 -18	24.90	7.30	46
20	27.80	43.50	20.40	1 3/16 -18	26.20	8.90	59
22	27.80	46.30	20.40	1 5/16 -18	26.20	8.90	63
24	27.80	49.60	21.40	1 7/16 -18	28.0	8.90	83

Thread measurement is imperial, all other measurements in mm.

AB05
accessories part number explanation

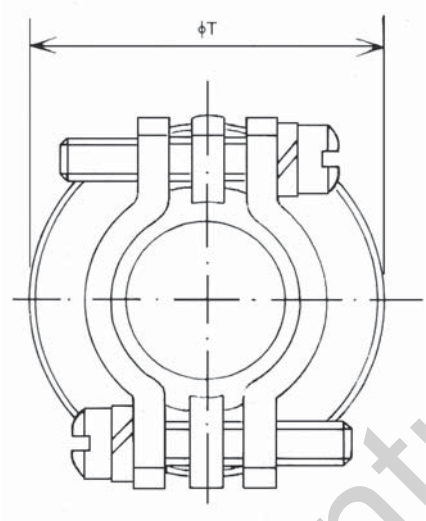
Accessories can also be ordered separately.
To illustrate the ordering procedure, part number AB05002710070021 is shown in the table below:

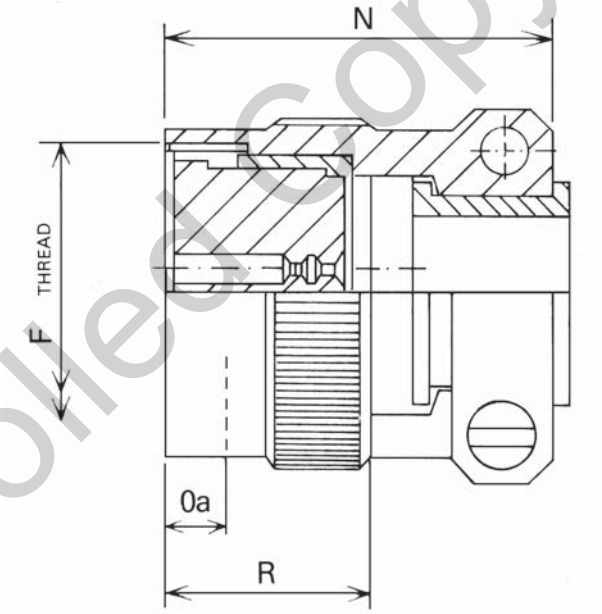
Product Range:		**AB05**	**00**	**27**	**10**	**07**	**00**	**21**
Shell Style:	00 No connector. Accessory only.							
Accessory Class	27 : Strain relief clamp 29 : Straight outlet internally screened 30 : Straight outlet externally screened 40 : Grommet nut 50 : General duty adaptor (no grommet necessary) 55 : Sealing gland (no grommet necessary) 62 : Sealing gland with integral cable clamp 65 : Cover for square flange receptacle 66 : Cover for jam nut receptacle 70 : Cover for plug 75 : Screen and heat shrink adaptor 2* : Screening heat shrink adaptor, sealing type (* Indicates Entry Size, see page 29)							
Accessory Size:	08, 10, 12, 14, 16, 18, 20, 22, 24 (Increase in sixteenths of an inch)							
Contact Layout:	Refers to grommet where fitted. 00 No grommet supplied.							
Orientation:	00 No orientation.							
Modification:	21 Anodised black def 151 type 1							

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AB05-0027
strain relief clamp







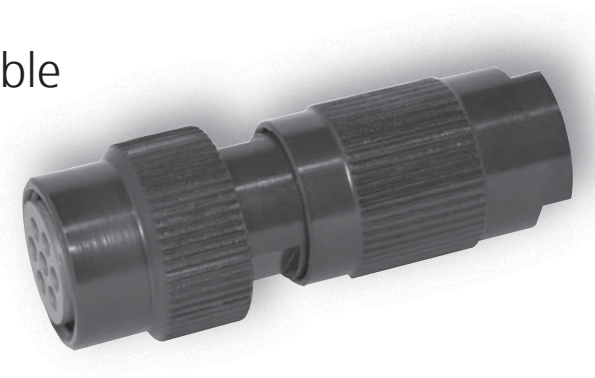
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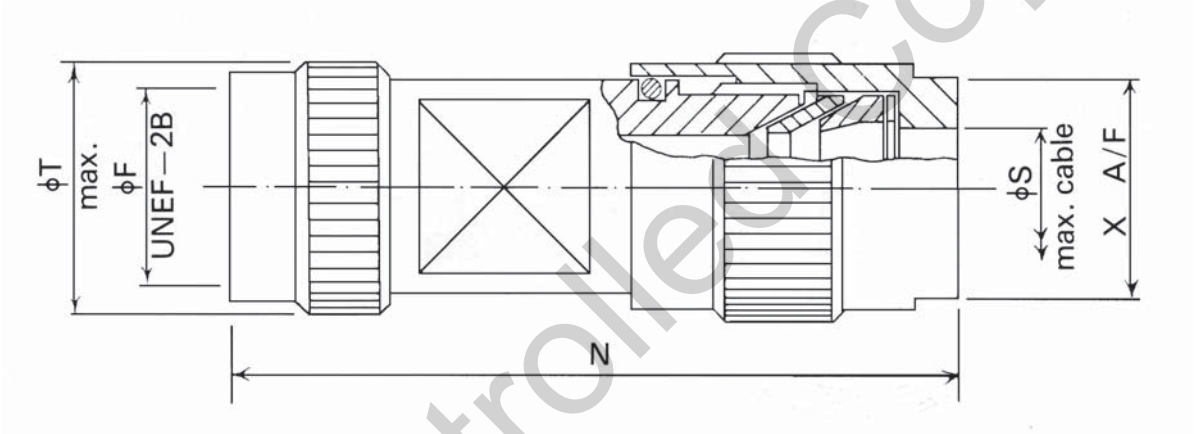
Shell Size	F thread UNEF 2B	N max.	Oa min.	R max.	T Ø max.	MASS max. G
08	7/16 -28	31.40	4.80	16.50	15.20	18
10	9/16 -24	31.40	4.80	16.50	18.50	19
12	11/16 -24	31.40	4.80	16.50	21.80	20
14	13/16 -20	31.40	4.80	16.50	25.10	22
16	15/16 -20	33.50	4.80	16.50	28.20	25
18	1 1/16 -18	34.30	4.80	16.50	31.50	29
20	1 3/16 -18	36.80	4.80	17.20	34.50	31
22	1 5/16 -18	36.80	4.80	17.20	37.60	38
24	1 7/16 -18	36.80	4.80	17.20	40.90	42

For Accessory Part Number Explanation, see page 18.
Thread measurement is imperial, all other measurements in mm.

AB05-0029

straight outlet for internally screened cable





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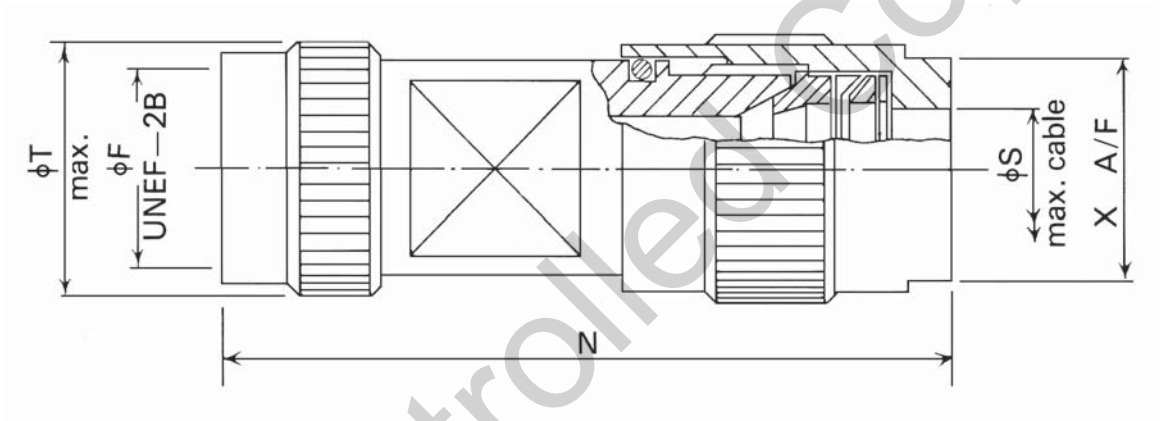
Shell Size	T Ø max.	F thread Ø	N max.	S Ø	X A/F
08	17.53	7/16 x 28	51.30	7.20	12.70
10	19.30	9/16 x 24	51.05	8.70	12.70
12	21.74	11/16 x 24	63.30	7.20; 11.80	15.87
14	26.52	13/16 x 20	63.91	12.50	17.45
16	29.82	15/16 x 20	67.06	14.60	19.05
18	*	*	*	*	*
20	35.66	1 3/16 x 18	67.06	16.70	25.40
22	*	*	*	*	*
24	42.00	1 7/16 x 18	76.58	20.30	26.97

* Please consult factory

For Accessory Part Number Explanation, see page 18.

Thread measurement is imperial, all other measurements in mm.

AB05-0030
straight outlet for externally screened cable



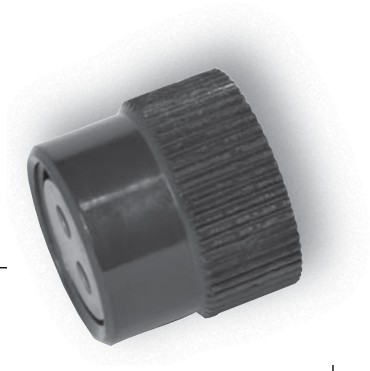
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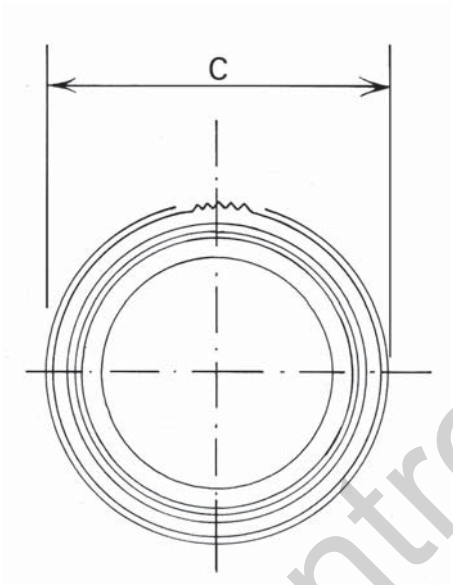
Shell Size	T Ø max.	F thread Ø	N max.	S Ø	X A/F
08	17.53	7/16 x 28	51.30	7.20	12.70
10	19.30	9/16 x 28	51.05	8.70	12.70
12	21.74	11/16 x 24	63.30	7.20; 11.80	15.87
14	26.52	13/16 x 20	63.91	12.50	17.45
16	29.62	15/16 x 20	67.06	14.60	19.05
18	*	*	*	*	*
20	*	*	*	*	*
22	*	*	*	*	*
24	*	*	*	*	*

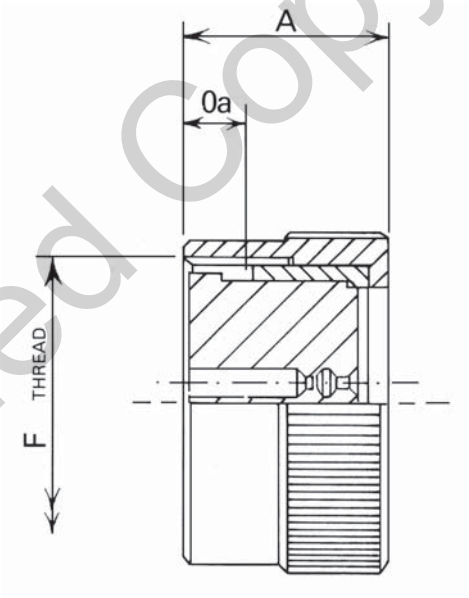
* Please consult factory
For Accessory Part Number Explanation, see page 18.

Thread measurement is imperial, all other measurements in mm.

AB05-0040
grommet nut







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Shell Size	F thread Class 2B	A max.	Oa min. overlap	C Ø max.	MASS max. G
08	7/16 -28 UNEF	16.50	4.80	15.20	7
10	9/16 -24 UNEF	16.50	4.80	18.50	9
12	11/16 -24 UNEF	16.50	4.80	21.80	12
14	13/16 -20 UNEF	16.50	4.80	25.20	14
16	15/16 -20 UNEF	16.50	4.80	28.20	17
18	1 1/16 -18 UNEF	16.50	4.80	31.50	21
20	1 3/16 -18 UNEF	17.20	4.80	34.50	22
22	1 5/16 -18 UNEF	17.20	4.80	37.50	26
24	1 7/16 -18 UNEF	17.20	4.80	40.90	28

* Please consult factory

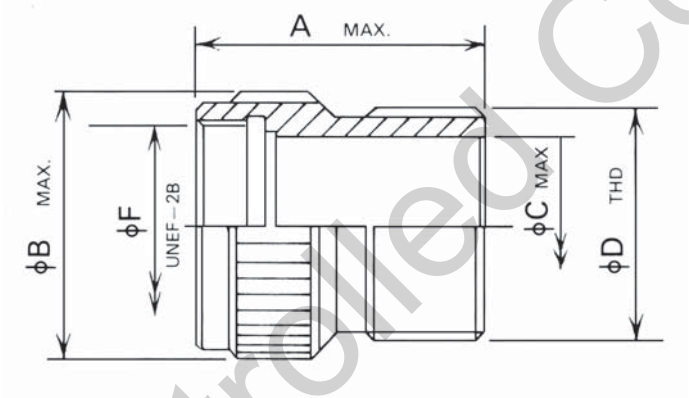
For Accessory Part Number Explanation, see page 18.

Thread measurement is imperial, all other measurements in mm.

AB05-0050

general duty adaptor
(no grommet necessary)





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Shell Size	F thread Ø	A	C Ø	B Ø	D thread Ø
08	7/16 x 28	23.75	8.36	14.99	1/2 x 28 UNEF
10	9/16 x 24	23.75	11.35	18.29	5/8 x 24 UNEF
12	11/16 x 24	23.75	14.53	21.59	3/4 x 20 UNEF
14	13/16 x 20	23.75	17.42	24.89	7/8 x 20 UNEF
16	15/16 x 20	23.75	20.60	27.84	1 x 20 UNEF
18	1 1/16 x 18	23.75	23.34	30.73	1 3/16 x 18 NEF
20	1 3/16 x 18	23.75	24.89	34.29	1 3/16 x 18 NEF
22	1 5/16 x 18	23.75	29.69	37.59	1 7/16 x 18 NEF
24	1 7/16 x 18	23.75	31.24	40.64	1 7/16 x 18 NEF

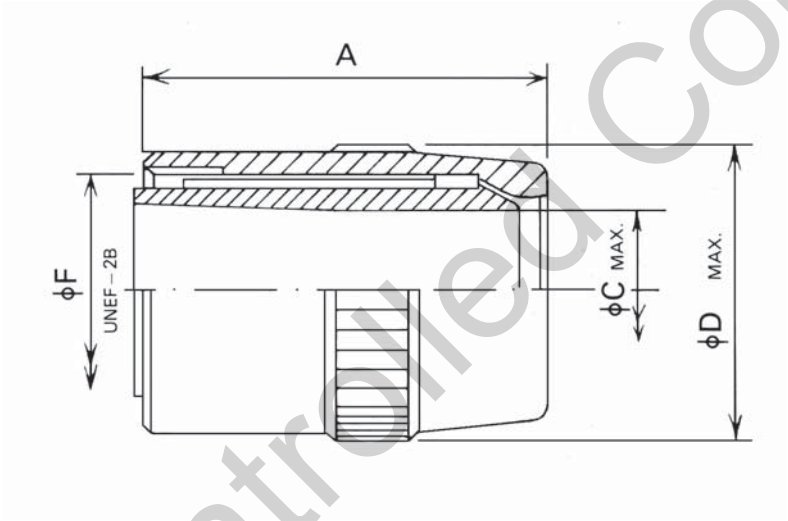
* Please consult factory

For Accessory Part Number Explanation, see page 18.

Thread measurement is imperial, all other measurements in mm.

AB05-0055
sealing gland
(no grommet necessary)





Uncontrolled Copy

Shell Size	F thread Ø	A	C Ø max.	D Ø max.
08	7/16 x 28	26.80	5.84	14.22
10	9/16 x 24	26.80	7.92	17.37
12	11/16 x 24	29.33	11.23	20.57
14	13/16 x 20	33.02	13.69	23.75
16	15/16 x 20	38.71	15.60	26.92
18	1 1/16 x 18	43.79	17.07	30.10
20	1 3/16 x 18	48.90	18.90	33.27
22	1 5/16 x 18	54.23	21.44	36.45
24	1 7/16 x 18	55.25	22.61	39.62

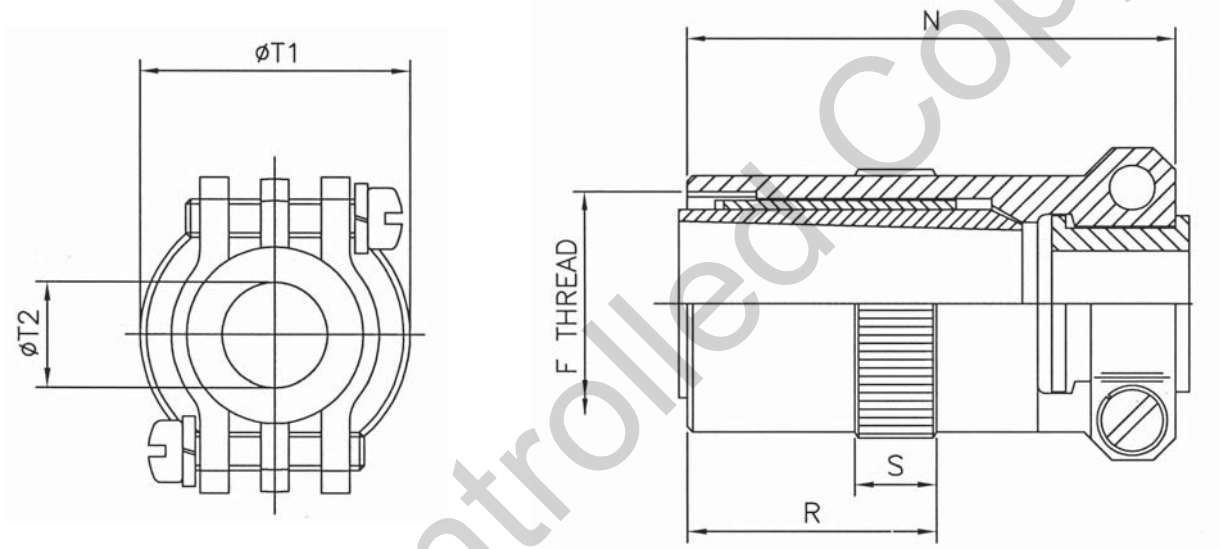
* Please consult factory

For Accessory Part Number Explanation, see page 18.

Thread measurement is imperial, all other measurements in mm.

AB05-0062
sealing gland with integral cable clamp





Uncontrolled Copy

Shell Size	F thread UNEF 2B	N max.	R max.	S max.	T1 Ø max.	T2 Ø max.	Closing Ø of sealing gland
08	7/16 x 28 UNEF	39.20	19.10	5.08	15.0	3.96	4.98
10	9/16 x 24 UNEF	39.20	19.10	5.08	18.30	4.93	5.06
12	11/16 x 24 UNEF	41.80	20.30	5.08	21.60	8.20	9.45
14	13/16 x 20 UNEF	44.70	22.90	7.62	24.90	9.68	11.30
16	15/16 x 20 UNEF	50.80	28.70	8.48	27.90	12.85	14.35
18	1 1/16 x 18 UNEF	55.10	27.40	8.48	30.70	16.03	15.44
20	1 3/16 x 18 UNEF	66.50	27.40	8.48	34.30	16.03	14.96
22	1 5/16 x 18 UNEF	71.90	27.40	8.48	37.60	19.20	15.24
24	1 7/16 x 18 UNEF	72.90	27.40	9.25	40.60	20.47	19.71

* Please consult factory

For Accessory Part Number Explanation, see page 18.

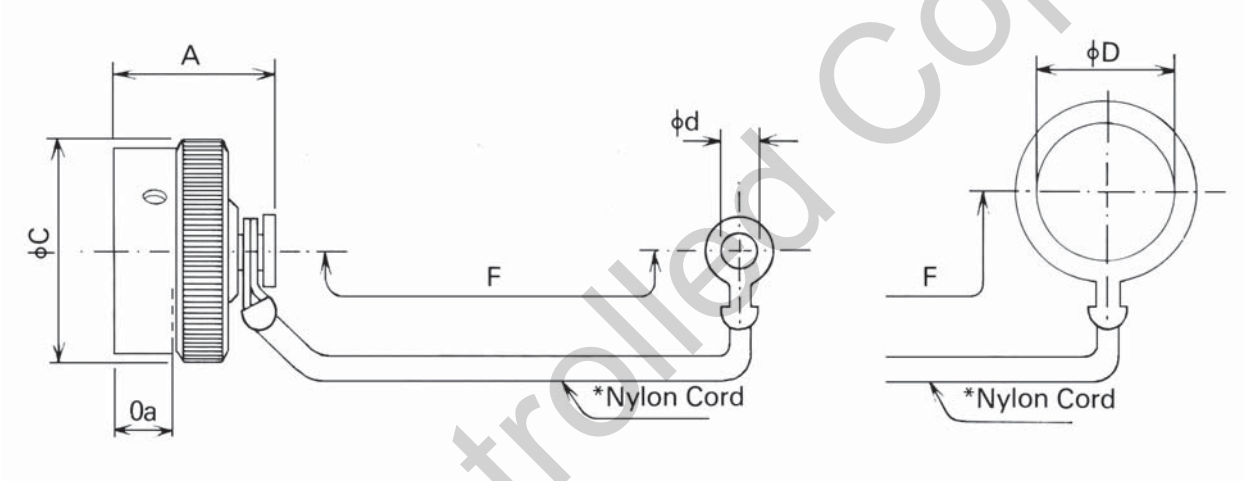
Thread measurement is imperial, all other measurements in mm.

AB05-0065
cover for square flange receptacle

AB05-0066
cover for jam nut receptacle



AB05-0065



AB05-0066

Uncontrolled Copy

* Part number fo cover with Ball Chain attachment is AB05 0067 or AB05 0068 respectively.

Shell Size	A max.	C Ø max.	d Ø min.	D Ø min.	F approx.	Oa min.	MASS max. G
08	20.10	19.10	3.05	14.50	76.0	7.30	10
10	20.10	21.80	3.05	17.80	76.0	7.30	11
12	20.10	26.40	3.05	22.40	89.0	7.30	14
14	20.10	30.0	3.05	25.70	89.0	7.30	16
16	20.10	33.30	3.05	28.70	89.0	7.30	18
18	20.10	35.60	3.05	32.0	89.0	7.30	20
20	21.60	39.10	3.05	35.10	102.0	7.30	24
22	21.60	42.20	3.05	38.40	102.0	7.30	25
24	22.40	45.20	3.73	41.40	102.0	8.90	29

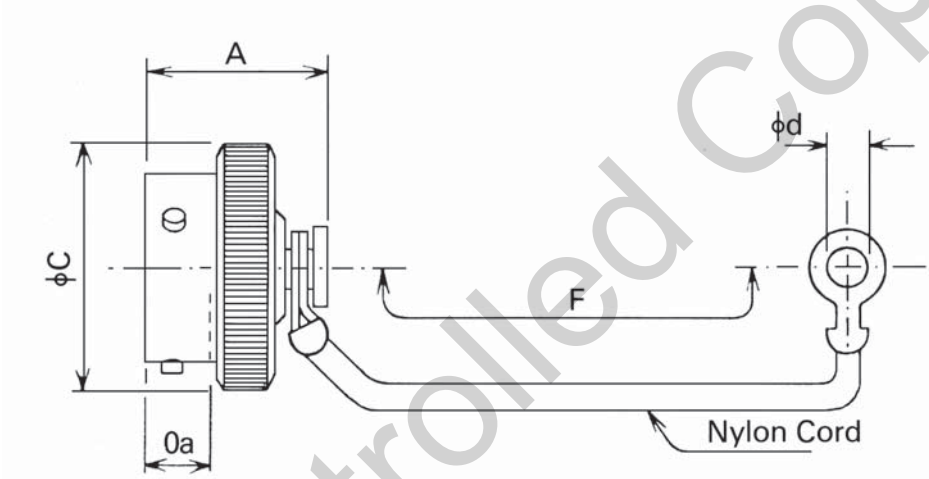
* Please consult factory

For Accessory Part Number Explanation, see page 18.

All measurements in mm.

AB05-0070
cover for plug





Uncontrolled Copy

* Part number for cover with Ball Chain Attachment is AB05 0072.

Shell Size	A max.	C Ø max.	d Ø min.	F approx.	Oa min. overlap	MASS max. G
08	20.10	19.10	3.05	76.0	7.30	8
10	20.10	21.80	3.05	76.0	7.30	9
12	20.10	26.40	3.05	89.0	7.30	11
14	20.10	30.0	3.05	89.0	7.30	13
16	20.10	33.30	3.05	89.0	7.30	15
18	20.10	35.60	3.05	89.0	7.30	17
20	21.80	39.10	3.05	102.0	7.30	24
22	21.80	42.20	3.05	102.0	7.30	27
24	22.40	45.20	3.73	102.0	8.90	30

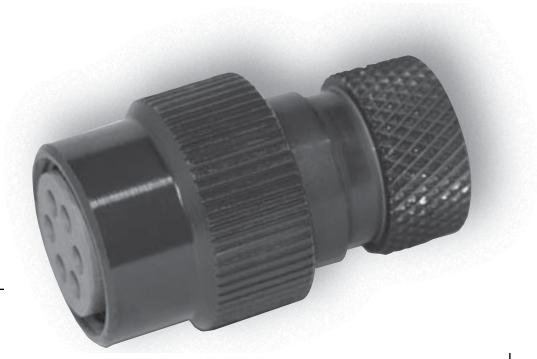
* Please consult factory

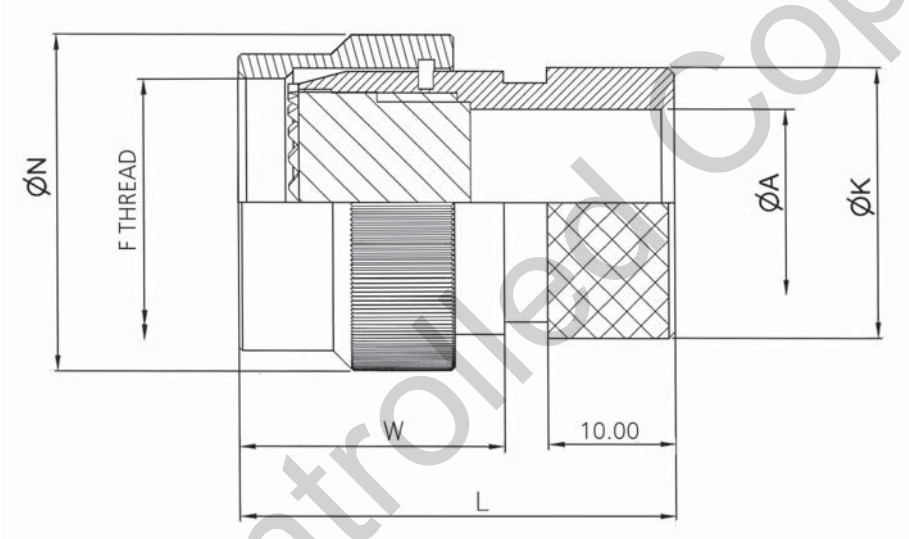
For Accessory Part Number Explanation, see page 18.

All measurements in mm.

AB05-0075

screen and heat shrink adaptor





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Shell Size	F thread UNEF 2B	A Ø max.	K Ø max.	N Ø max.	W max.	L max.
08	7/16 x 28	5.59	13.46	15.20	16.50	35.51
10	9/16 x 24	8.56	15.24	18.50	16.50	35.51
12	11/16 x 24	11.76	19.56	21.80	16.50	35.51
14	13/16 x 20	14.66	21.29	25.20	16.50	35.51
16	15/16 x 20	17.73	24.36	28.20	16.50	35.51
18	1 1/16 x 18	20.32	26.42	31.50	16.50	35.51
20	1 3/16 x 18	22.91	29.54	34.50	17.20	35.51
22	1 5/16 x 18	26.57	32.66	37.50	17.20	35.51
24	1 7/16 x 18	28.35	35.22	40.90	17.20	35.51

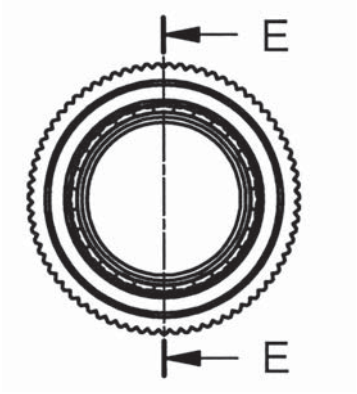
For Accessory Part Number Explanation, see page 18.
Thread measurement is imperial, all other measurements in mm.

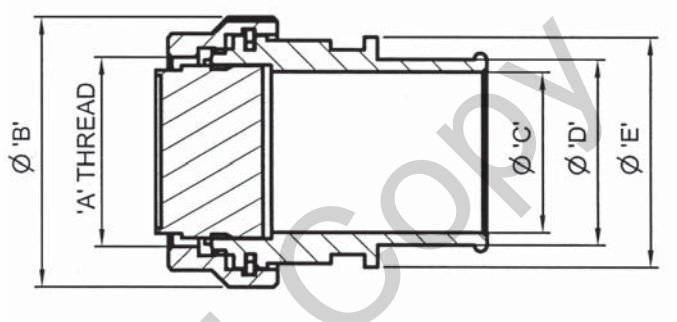
AB05-002*

screening heat shrink adaptor, sealing type

* Indicates Entry Size







Uncontrolled Copy

Shell Size	A thread UNEF 2B	B max.	Entry Range
08	7/16 - 8	22.0	03 - 07
10	9/ - 24	22.0	03 - 10
12	1/16 - 24	26.2	03 - 16
14	13/ - 20	29.20	03 - 18
16	5/16 - 20	32.20	03 - 20
18	1 1/16 - 18	35.20	03 - 22
20	1 3/16 - 18	39.20	03 - 24
22	1 5/16 - 18	42.20	03 - 24
24	1 7/16 - 18	48.20	03 - 24

Entry Dimensions:

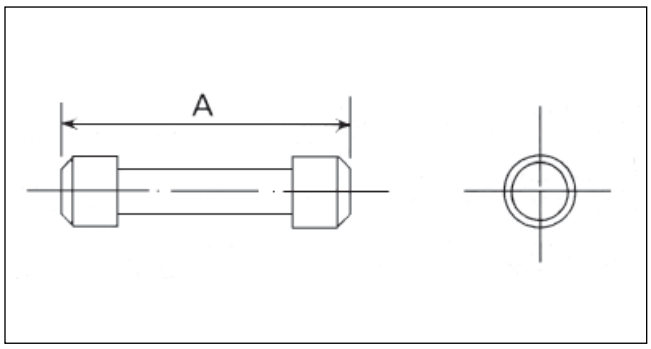
Entry Size	C	D Knurl	E max.
03	4.77	9.75	13.90
04	6.35	9.75	13.90
05	7.92	10.72	15.50
06	9.52	12.32	17.20
07	11.10	13.90	18.70
08	12.70	15.50	20.30
09	14.27	17.07	21.90
10	15.88	18.68	23.50
11	17.47	20.27	25.10
12	19.05	21.85	26.70
13	20.62	23.42	28.30

Entry Size	C	D Knurl	E max.
14	22.23	25.03	29.90
15	23.82	26.62	31.50
16	25.40	28.20	33.10
17	27.00	29.80	34.70
18	28.60	31.40	36.30
19	30.20	33.00	37.90
20	31.80	34.60	39.50
21	33.38	36.18	41.10
22	35.00	37.80	42.70
23	36.58	39.38	44.30
24	38.10	40.90	45.90

For Accessory Part Number Explanation, see page 18.

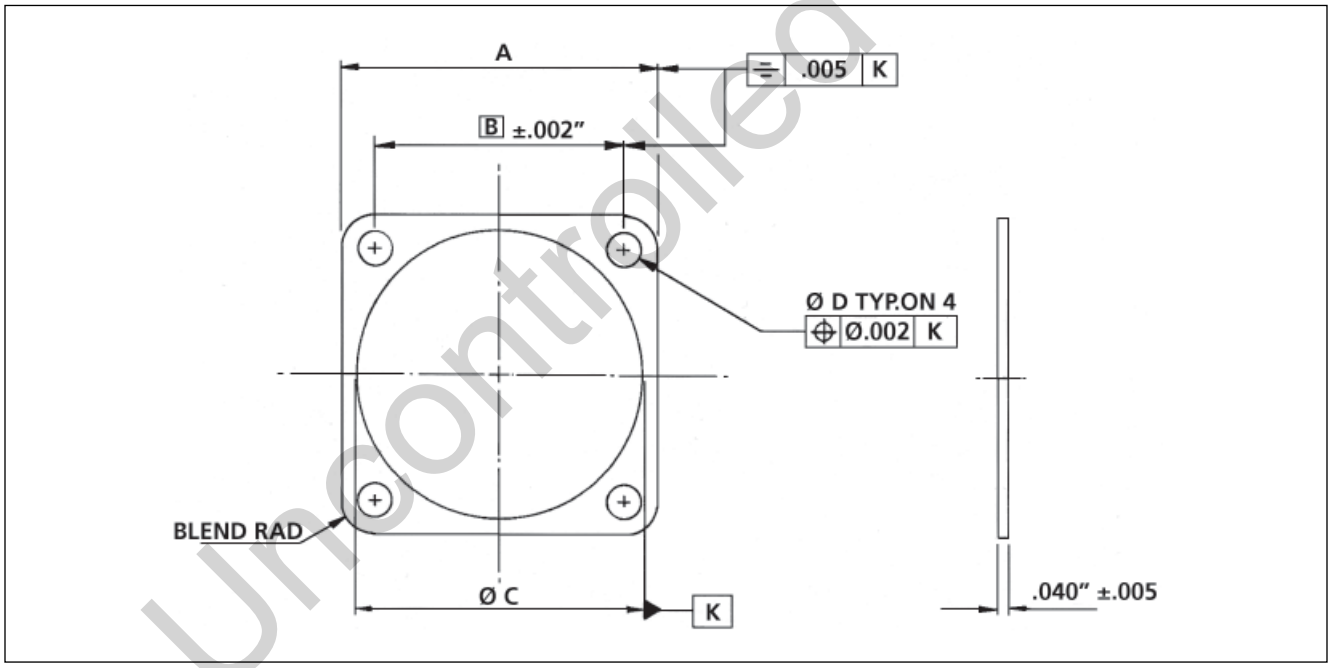
Thread measurement is imperial, all other measurements in mm.

AB05-size-240-000-AC
filler plug



Shell Size	Colour code	A max.	MASS g x 10
20	Red	9.90	0.40
16	Blue	12.20	1.0
12	Please consu fac ory		

AB05-size-382-000-AC
panel gasket

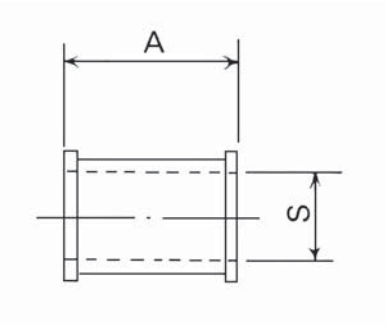


Shell Size	A	B	Ø C +0,15 -0	D Ø
08	20.98	15.08	11.12	3.42
10	25.40	18.26	14.30	3.42
12	27.78	20.62	17.47	3.42
14	30.17	23.01	20.65	3.42
16	32.53	24.61	23.82	3.42
18	34.92	26.97	27.00	3.42
20	38.10	29.36	30.17	3.42
22	41.27	31.75	33.35	3.42
24	44.45	34.92	36.52	4.14

All measurements in mm.

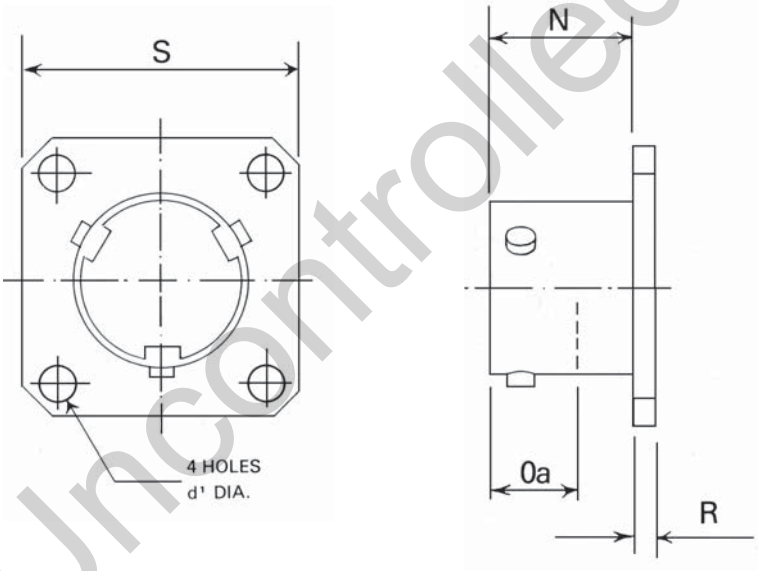
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AB05-size-430-000-AC
cable grommet



Shell Size	A max.	S Ø max.	MASS max. G
08	12.70	4.10	0.70
10	12.70	5.10	0.90
12	12.70	8.40	1.30
14	12.70	9.90	2.20
16	12.70	13.0	1.90
18	14.50	16.30	2.70
20	14.50	16.30	2.70
22	14.50	19.30	4.60
24	14.50	20.60	4.60

AB05-2300
square flange stowage receptacle

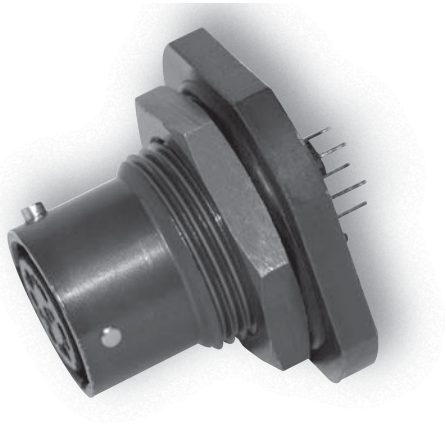


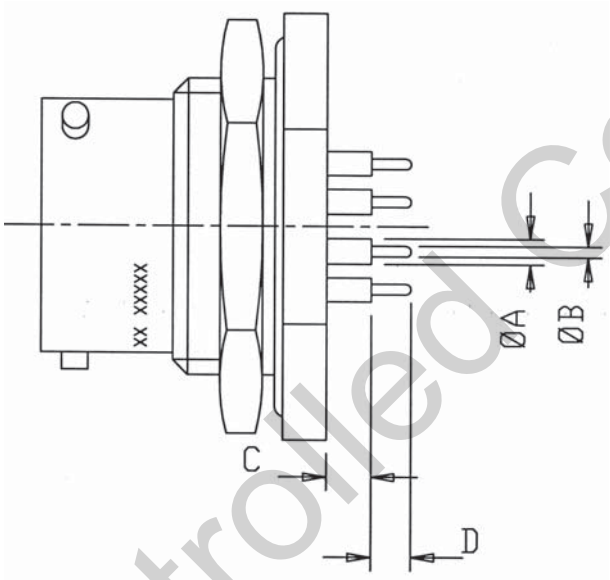
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Shell Size	N max.	Oa min.	R max.	V CRS (TP)	X CRS (TP)	S max.	d^1 Ø	d^2 Ø
08	12.50	7.50	2.0	22.60	15.09	21.10	3.05	3.12
10	12.50	7.50	2.0	25.40	18.26	24.40	3.05	3.12
12	12.50	7.50	2.0	29.70	20.62	26.70	3.05	3.12
14	12.50	7.50	2.0	33.0	23.01	29.20	3.05	3.12
16	12.50	7.50	2.0	38.10	24.61	31.50	3.05	3.12
18	12.50	7.50	2.0	40.90	26.97	33.80	3.05	3.12
20	14.90	9.10	2.80	43.90	29.36	37.0	3.05	3.12
22	14.90	9.10	2.80	46.70	31.75	40.10	3.05	3.12
24	15.70	9.10	2.80	50.0	34.93	43.40	3.73	3.81

All measurements in mm.

AB05
printed circuit board contacts



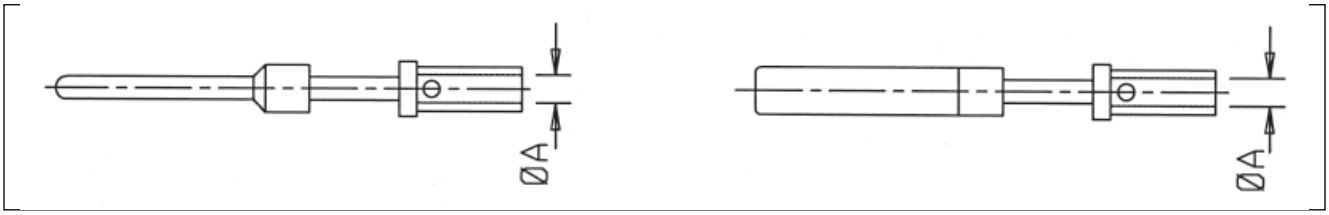


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Modification Code	She l Size	Ø A	Ø B	C	D ±0.10
03	08 - 18	1.50 ±0.05	0.74 ±0.03	3.05/1.52	2.00
03	20 - 22	1.50 ±0.05	0.74 ±0.03	2.84/1.32	2.00
03	24	1.50 ±0.05	0.74 ±0.03	1.93/0.48	2.00
04	08 - 18	1.50 ±0.05	0.74 ±0.03	3.05/1.52	5.00
04	20 - 22	1.50 ±0.05	0.74 ±0.03	2.84/1.32	5.00
04	24	1.50 ±0.05	0.74 ±0.03	1.93/0.48	5.00
05*	08 - 18	2.03 ±0.10	1.02 ±0.10	3.81/2.28	2.29
06*	08 - 18	2.03 ±0.10	0.69 ±0.03	3.81/2.28	2.29
46*	08 - 18	1.90 ±0.20	0.77 ±0.17	1.03/-0.50	2.50
62*	08 - 18	1.90 ±0.20	0.80 ±0.10	4.45/2.93	3.00
89*	08 - 18	1.50 ±0.05	0.74 ±0.03	3.05/1.52	3.00
91*	08 - 18	1.50 ±0.05	0.74 ±0.03	2.92/1.39	6.35
96*	08 - 18	2.03 ±0.10	0.69 ±0.03	2.55/1.02	5.00

* Please consult factory
N.B. Dimensions shown above are for AB05 3100 Style connectors only. For other styles please consult factory.
All measurements in mm.

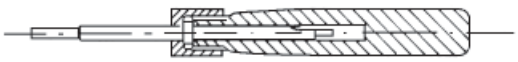
AB05
crimp contacts and assembly tools



Contact Size AWG	AB Part Number	Pin / Socket	A Ø	Conductor Sizes AWG	Shell Sizes
20	05-20-110-0-00-GM	Pin	0.84	28, 26, 24, 22	08 - 18
20	05-20-111-0-00-GM	Pin	0.84	28, 26, 24, 22	20 - 24
16	05-16-112-0-00-GM	Pin	1.75	16	08 - 18
20	05-20-112-0-00-GM	Pin	1.24	20	08 - 18
20	05-20-113-0-00-GM	Pin	1.24	20	20 - 24
20	05-20-114-0-00-GM	Pin	1.35	18	08 - 18
20	05-20-115-0-00-GM	Pin	1.35	18	20 - 24
20	05-151-20-00-00-0	Socket	1.83	14	08 - 18
20	05-103-20-00-00-0	Socket	0.84	28, 26, 24, 22	08 - 18
20	05-152-20-00-00-0	Socket	0.84	28, 26, 24, 22	20 - 24
16	05-103-16-00-00-0	Socket	1.75	16	08 - 18
20	05-104-20-00-00-0	Socket	1.24	20	08 - 18
20	05-153-20-00-00-0	Socket	1.24	20	20 - 24
20	05-154-20-00-00-0	Socket	1.35	18	20 - 24
20	05-156-20-00-00-0	Socket	1.35	18	08 - 18

Description	Part No.
Crimp Tool	M22520/1-01
Positioner size 20 Pin and Socket	ABBTH1A
Positioner size 16 Pin and Socket	ABBTP1251

Insertion and Extraction Tool

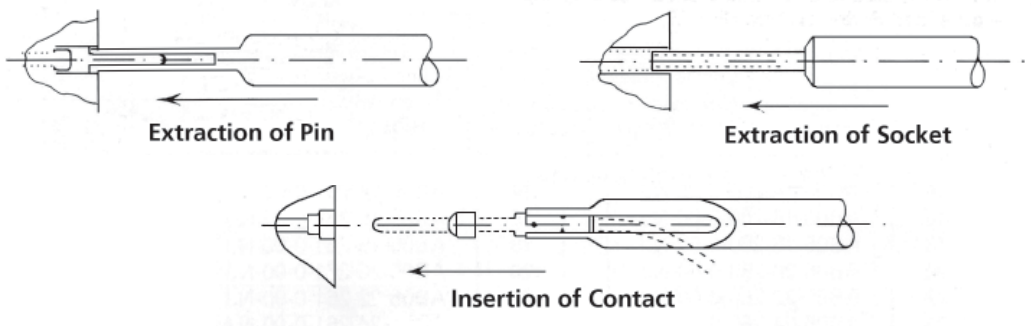


Part Number AB06-0042-00-0000-15

Crimp Tool & Positioner



Assembly



All measurements in mm.

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AB05 - 0029
assembly procedure for straight outlets

AB05-0029 Internally Screened Cable
Type C

1. 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. (Fig. 1).

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)

2. Strip 5.3 mm (0.210") to 6.1 mm (0.240") of insulation from each wire and Tin Ends. (Fig. 2).

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

4. Insert individual wires into Grommet. Slide Grommet back as far as possible. Insert Tinned Ends into Cont cts and solder. Slide Grommet over Contacts pushing firmly against rear of connector nsert. (ig. 4).

5. 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. 5).

Fig. 1

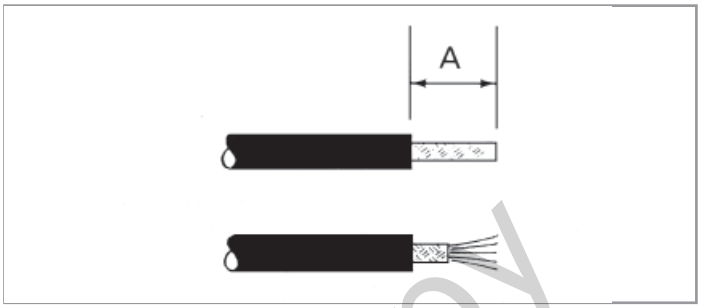


Fig. 2

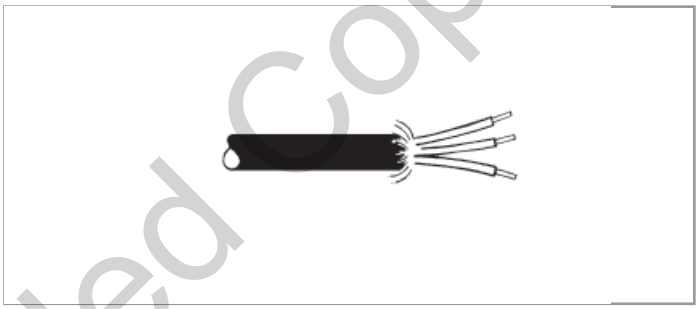


Fig. 3

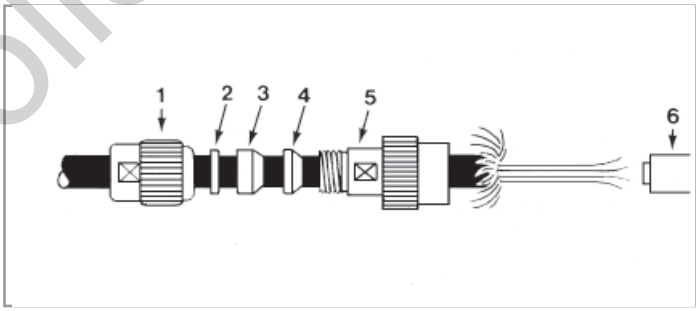


Fig. 4

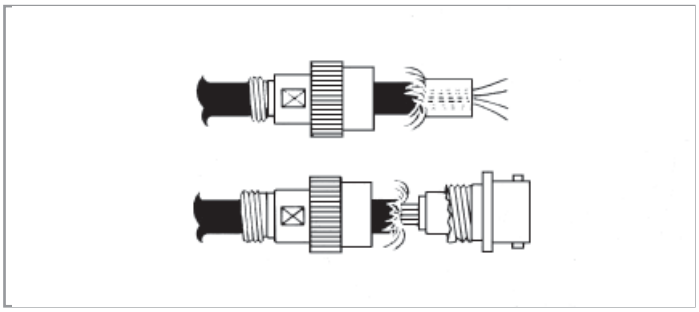
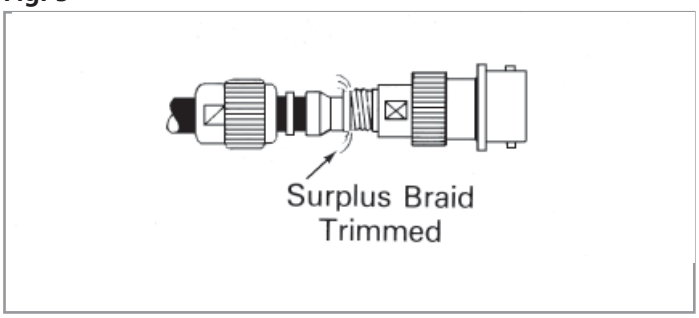


Fig. 5



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AB05 - 0030
assembly procedure for straight outlets

AB05-0030 Externally Screened Cable
Type B and Q

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

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. 2).

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

4. Insert individual wires into Grommet. Slide Grommet back as ar as possible. Insert Tinned Ends into Cont cts nd solder. Slide Grommet over Co tacts pushing firmly against rear of connector nsert. ig. 4).

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. 5).

Fig. 1

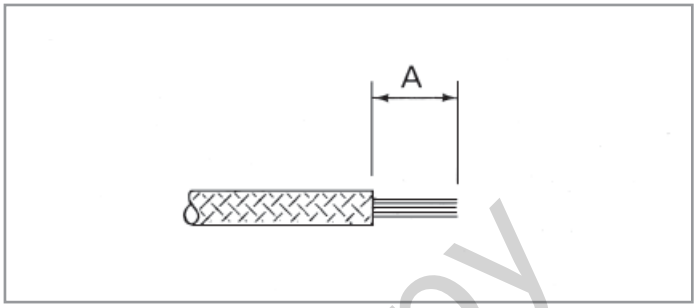


Fig. 2

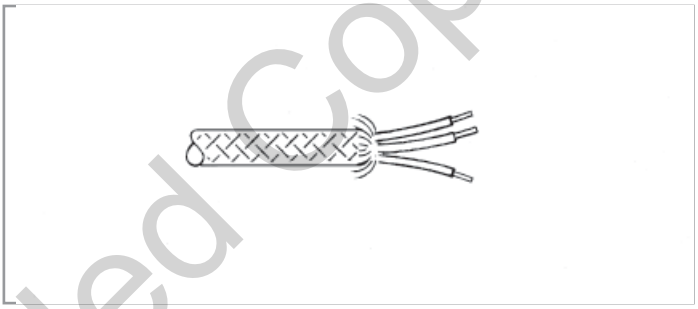


Fig. 3

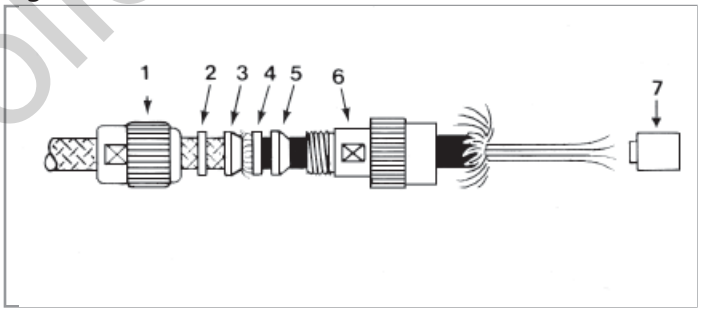


Fig. 4

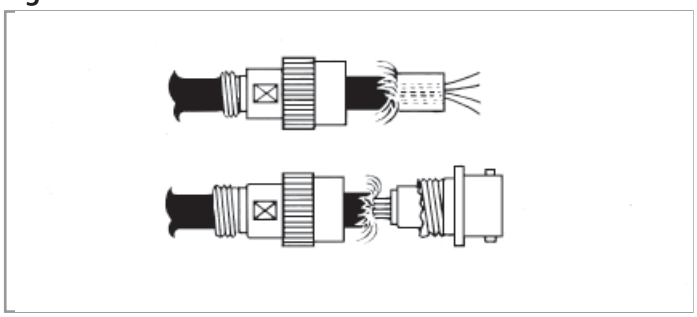
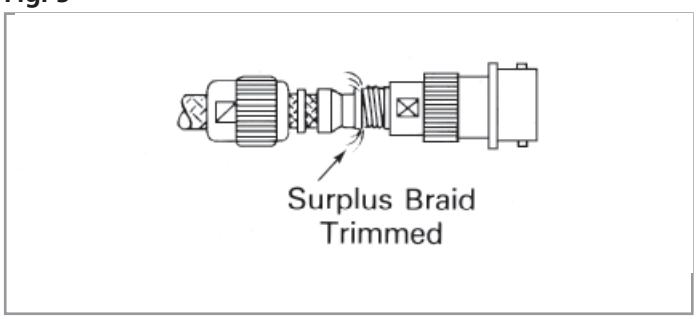


Fig. 5



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AB05 10-76
Miniature Bayonet Coupling Connectors

The AB05 10-76 Miniature Bayonet Coupling Connectors have been specifically designed to be backward compatible with the Clansman 10-07.

AB05 10-76 has a plating finish of zinc cobalt olive drab a benefit of this is a high resistance to corrosion which has been dictated on Bowman in the UK.

Shell size 10 is used throughout the connector range and contact arrangements consist only of 7 size 20 contacts and 6 size 22 contacts. Insulators are thermoplastic with an operating temperature range of -55ºC to 125ºC.

Shells are keyed to prevent miss mating between shells of different orientations. Designation F is for Radio Audio, N for Data and E for Ethernet. Other orientations available are B and C

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Contents: **Page:**

AB05 10-76 Miniature Bayonet Coupling Connectors **36-41**
Technical Information 37
Part No. Explanation 37
Receptacles;
AB06 3100 10 76 SF 152: receptacle, panel mo nting with PC printed circuit terminals 38
AB06 3100 10 76 SF 221: receptacle, panel cut out with solder contacts 39
Plugs;
AB05 5700 10 76 PF 217: plug, knurled coupling nut 40
AB05 8500 10 76 PC 220: plug, with over moulding back shell and solder contacts 41

AB06 Audio Miniature Bayonet Lock Connectors Range **42-60**

Safety Information **61**



AB05 10-76
technical information

Mechanical Features

Shell size:	10, measured in sixteenths of an inch
Coupling:	Three pin bayonet
Contact Termination:	Solder bucket, pin tails for P.C.B. applications.
Sealing:	Barrier, or barrier and panel seal Dynamic peripheral seal between mating shells

Materials

Shell:	Aluminium Alloy
Insulator:	Thermoplastic
Contacts:	Brass

Plating Finishes

Shell:	Zinc cobalt olive drab
Contacts:	Gold over nickel

Technical Data

Temperature Range: -55°C to +125°C

Environmental Ratings:

a) Shock severity: 981 m/s^2 (100g$_n$) for 6 milliseconds.
b) Vibration: 10Hz-5000 Hz, 0.75 mm/10g$_n$ duration; 30 hours (including 1 hour at -55°C nd 3 hours at 125°C).
c) Acceler tion: 490 m/s^2 (50g$_n$)
d) Hum dity everity: 44 millibars
e) Bump severity: 390 m/s^2 (40g$_n$), 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 mismating or cross-plugging, shell to shell, key to 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.

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AB05 10-76
part number explanation

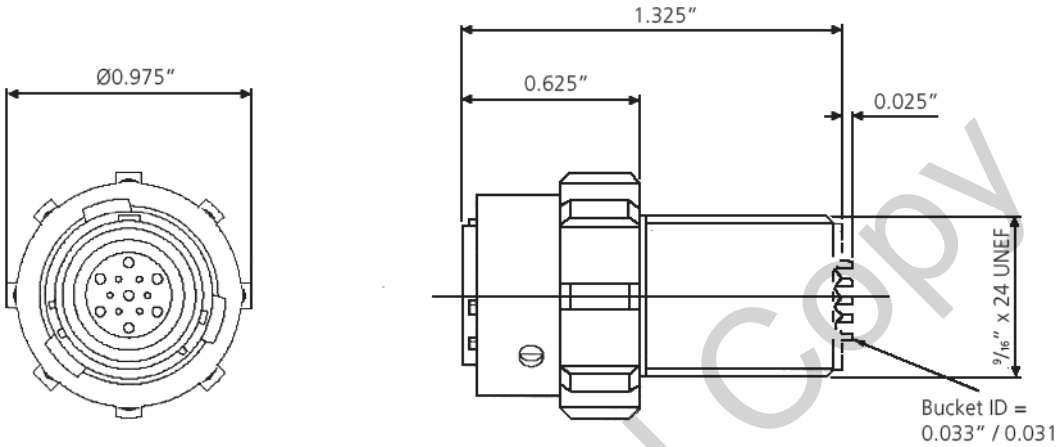
To illustrate the ordering procedure, part number AB0557001076PF217 is shown in the table below:

Product Range:	**AB****	**57**	**00**	**10**	**76**	**P**	**F**	**217**
Shell Style:	AB06 31 : Jam Receptacle (no accessory thread) AB05 57 : Plug with coarse ribbed coupling nut and extended accessory thread AB05 85 : Plug with coarse ribbed coupling nut spring grounding fingers extended for over moulding							
Accessory Class:	00 : No accessory							
Shell size:	10 (Increase in sixteenths of an inch)							
Contact layout:	76							
Contact type:	P : Pin S : Socket							
Orientation:	N, B, C, E & F (Insert orientation available only for replacement of MIL-C-26482 type . Please consult factory)							
Modification:	152 : Round flange shell. Rounded jam nut. 217 : Contact bucket. Heights all the same. 220 : Contact bucket. At different heights. 221 : Round flange shell hex.							

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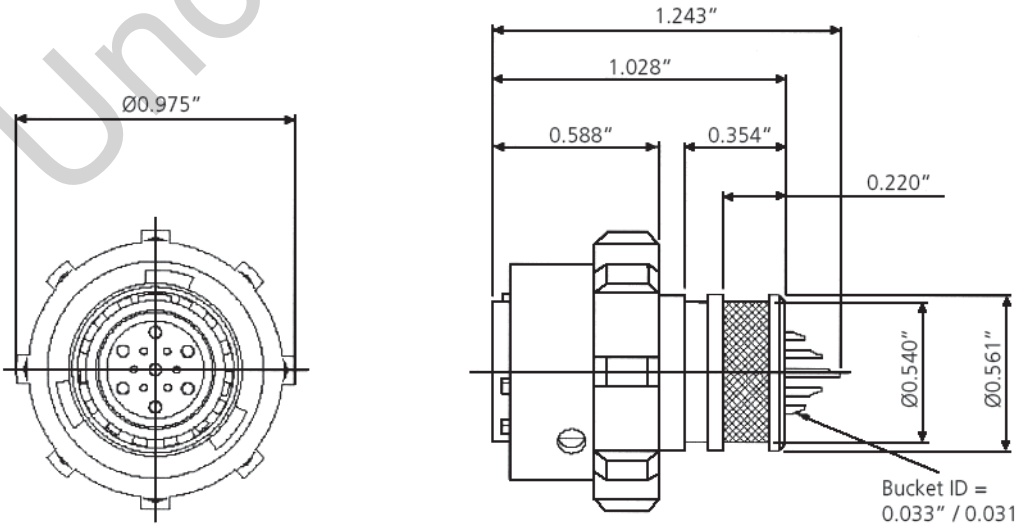
AB05-5700-10-76-PF-217

plug, extended rear shell with solder contacts



AB05-8500-10-76-PC-220

plug, with over moulding back shell and solder contacts

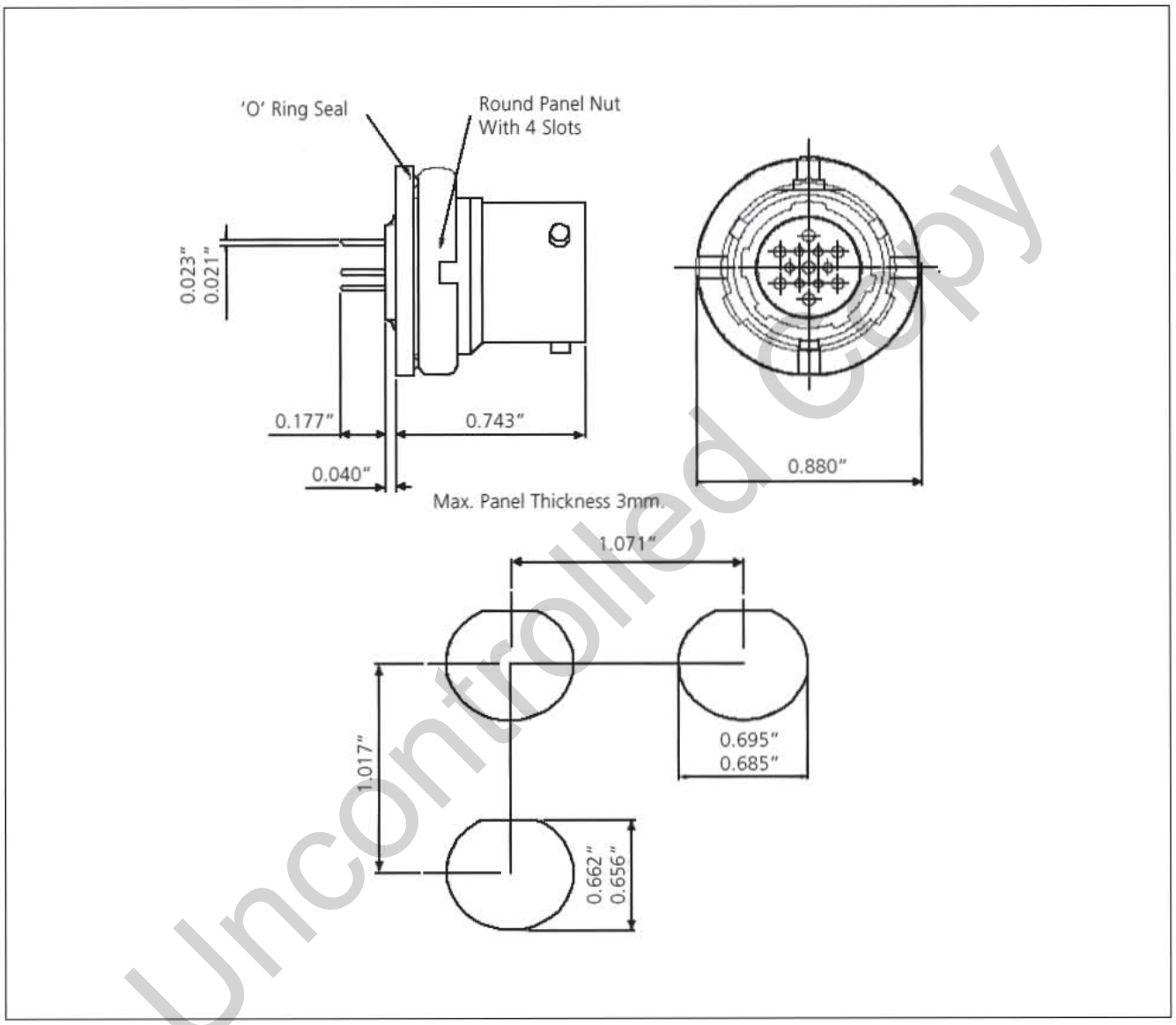


All measurements in mm.

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AB06-3100-10-76-SF-152

receptacle, panel mounting with PC printed circuit terminals

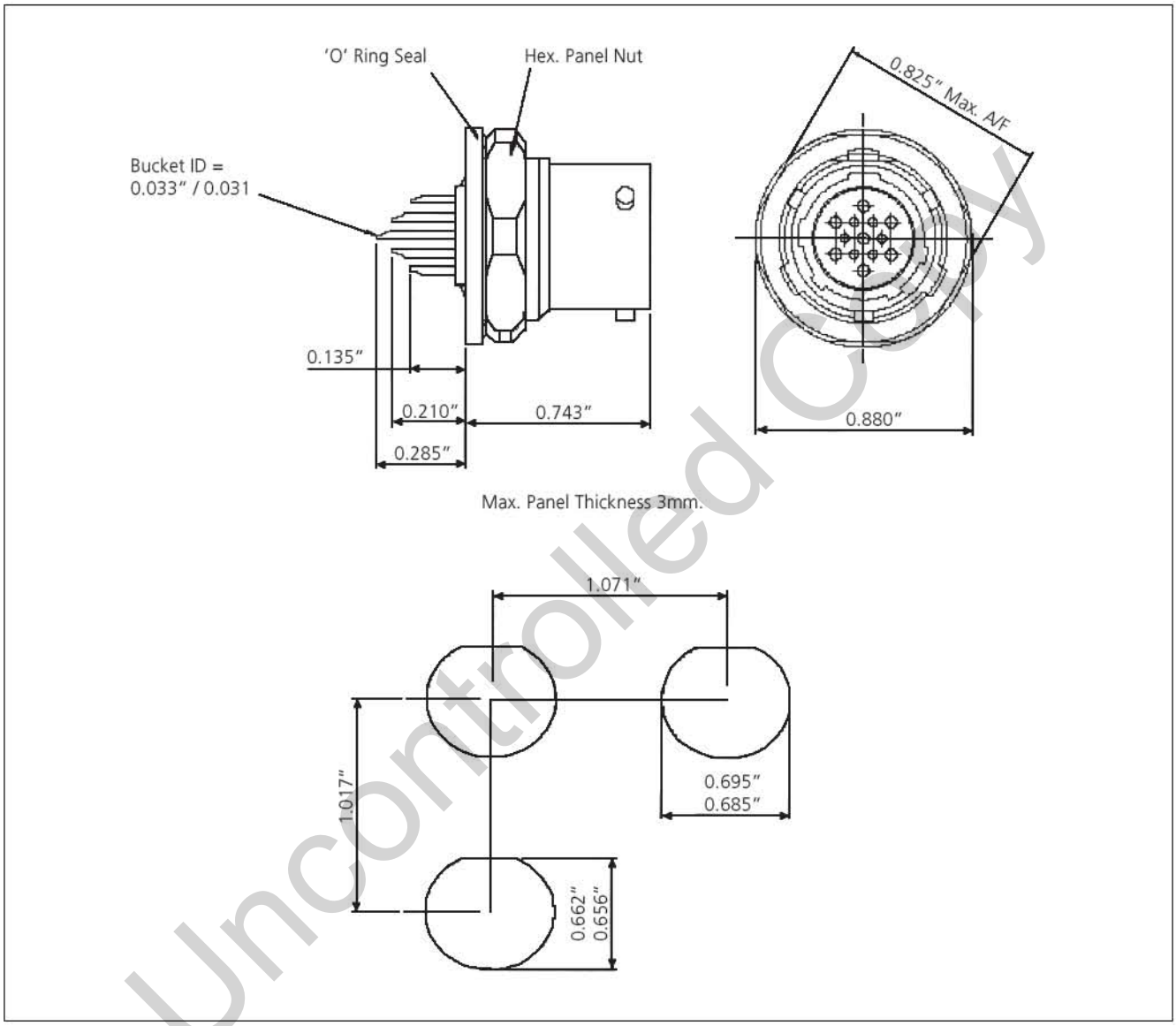


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All measurements in mm.

AB05-3100-10-76-SF-221

receptacle, panel cut out detail with solder contacts



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All measurements in mm.

AB06
Audio Miniature Bayonet Lock Connectors

AB06 connectors are a development of the established AB05 (Patt, 105) range and are particularly suitable for tinsel cordage applications in audio equipment.



Designed to requirements of the Royal Signals and Radar Establishment, AB06 connectors are available in shell sizes 8, 10 and 12, and offer all performance characteristics and design features of AB05 connectors. An alternative 'snatch' type coupling nut for quick release applications is available in shell size 10.
Shell styles available are: free cable mounted with course ribbed or 'snatch' coupling nut, fixed single hole mount. fixed single hole mount 'audio' (thinner mounting flange) and free coupler connector. Contact styles are solder bucket, crimp and p.c.b mounted.

Accessories include a straight outlet with a polychloropre e sleeve for tinsel cordage, 90° outlets and protective caps

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AB06
Audio Miniature Bayonet Lock Connectors

Contents: **Page:**

AB06 Audio Miniature Bayonet Lock Connectors **42-59**
Technical Information 44
Part No. Explanation 45
Arrangement Specifications 46
Contact Arrangements 46
Connectors;
AB06 1000: coupler connector with accessory thread 47
AB06 3100: fixed connector single hole mounting 48
AB06 3200: fixed connector single hole mounting with accessory thread 49
AB06 3300: fixed audio connector (thinner mounting flange) 50
AB06 3400: fixed connector single hole mounting (modified flange) 51
AB06 6200: free connector with coarse ribbed coupling nut 52
AB06 6400: free connector 'snatch' release coupling nut 53
Accessories;
Accessories Part. No. Explanation 54
AB06 0010: 90° angled outlet 55
AB06 0011: 90° angled outlet (non-standard, #10 accepts #12 cable) 56
AB06 0020: straight outlet, large bore short boot 57
AB06 0021: straight outlet, small bore short boot 58
AB05 0022: straight outlet, small bore long boot 59
Printed Circuit Tail Detail 60
Panel Piercing Detail 60

Safety Information **61**

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AB06
technical information

Mechanical Features

Shell Size:	8 to 12
Coupling:	Three pin bayonet (optional 'snatch' in size 10)
Contact Types:	Solder bucket, crimp, pin tails for P.C.B. applications and flexible printing wiring.
Sealing:	Barrier, or barrier and panel seal. Dynamic peripheral seal between mating shells.
Polarization:	Insulator or key/keyway
Contact Arrangements:	4 available, 2 to 10 contacts

Materials

Shell:	Aluminium alloy
Insulator:	Polychloroprene
Contacts:	Copper alloy
Accessories Hardware:	Aluminium alloy

Plating Finishes

Shell:	Cadmium/cadmium free plated choice of passivation colour
Contacts:	Gold plated
Accessory Hardware:	Cadmium/cadmium free plated, choice of passivation colour

Technical Data

Temperature Range:	-55ºC to +125ºC
Voltage Rating:	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: 700V (Voltage rating 1) Size 16 Contacts: 3000V (Voltage rating 2) he establishment of electrical safety factors when the connector is used at other than the working voltage is the responsibility of the user.
Electrical Data:	Max. current between 7.5 and 13 amps per contact

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AB06
part number explanation

To illustrate the ordering procedure, part number AB0662101007PN00 is shown in the table below:

Product Range:		**AB06**	**62**	**10**	**10**	**07**	**P**	**N**	**00**
Shell Style:	10 : Coupler connector with accessory thread 31 : Fixed connector single hole mounting 32 : Fixed connector single hole mounting with accessory thread. 33 : Fixed audio connector (thinner mounting flange) 34 : Fixed connector single hole mounting (modified flange) 62 : Free connector with coarse ribbed coupling nut 64 : Free connector 'snatch' release coupling nut								
Accessory Class:	10 : 90° angled outlet 11 : 90° angled outlet (non-standard, #10 accepts #12 cable) 20 : Straight outlet, large bore short boot 21 : Straight outlet, small bore short boot 22 : Straight outlet, small bore long boot								
Shell size:	08, 10, 12								
Contact layout:	See page 40								
Contact type:	P : Pin S : Socket								
Orientation:	N, B, C, E, F								
Modification:	(For modifications and special requi emen please consult factory.)								

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AB06
arrangement spec

Contact Arrangement Service Ratings

	Sea Level 1013 mbar		8,500 m (27800 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

Current Service Ratings

Contact Size	Max. Current	* Rated Cur ent
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.

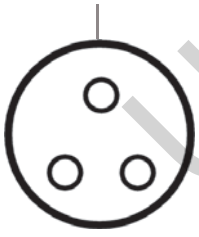
Contact Arrangement Alternative Orientations

Contact Arrangement	Availabl Orientations
08-33	**N, E, F**
10-02	**N, B, C, E, F**
10-07	**N, B, C, E, F**
12-10	**N, B, C, E, F**

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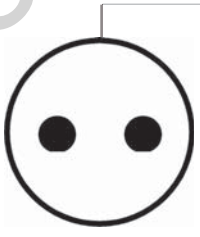
AB06
contact arrangements

Shell Size 08

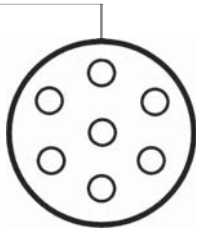


08-33
Service rating 1
3 Contacts,
Size 20

Shell Size 10



10-02
Service rating 2
2 Contacts,
Size 16



10-07
Service rating 1
7 Contacts,
Size 20

Shell Size 12



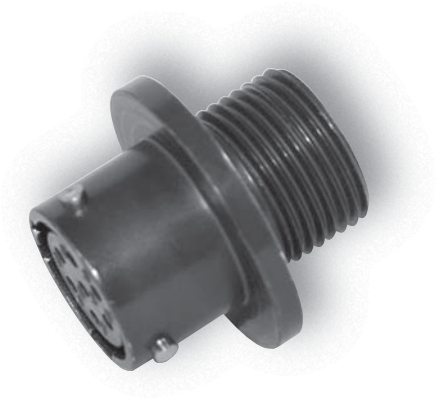
12-10
Service rating 1
12 Contacts,
Size 20

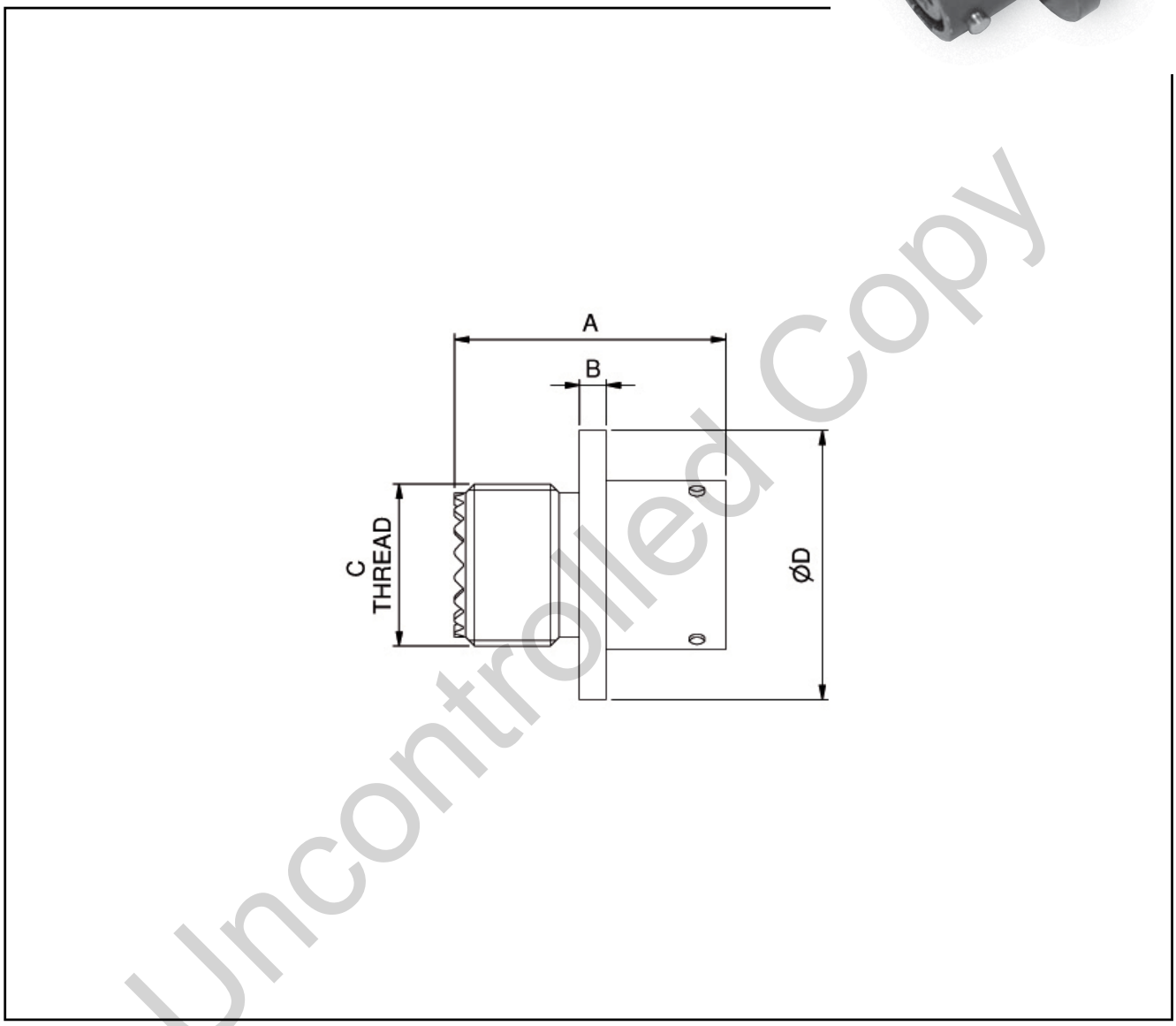
○ Size 20 Contacts

● Size 16 Contacts

AB06-1000

coupler connector with accessory thread





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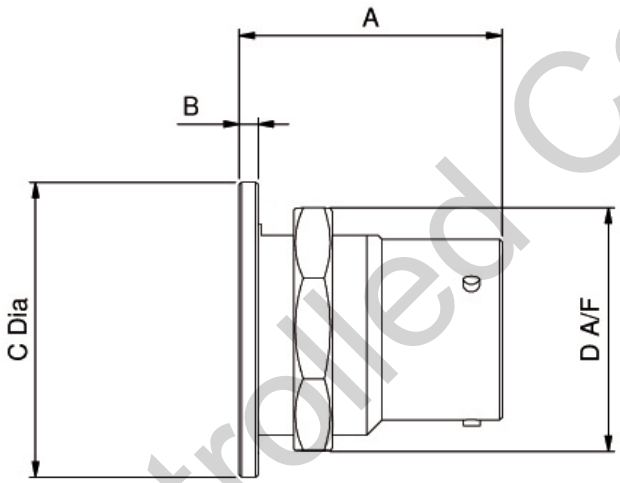
Shell Size	A	B	C thread UNEF 2A	D Ø
10	22.96	2.49	$^{9}/_{16}$ - 24	24.00
12	22.96	2.49	$^{11}/_{16}$ - 24	26.42

Thread measurement is imperial, all other measurements in mm.

AB06-3100

fixed connector single hole mounting





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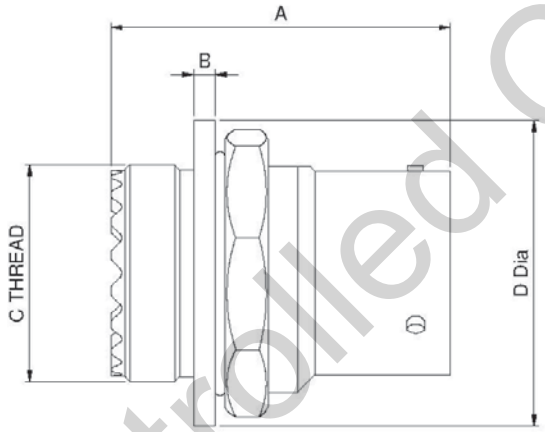
Shell Size	A	B	C Ø	D A/F
10	19.00	1.70	22.35	20.96
12	21.11	2.97	28.70	27.10

All measurements in mm.

AB06-3200

fixed connector single hole mounting
with accessory thread





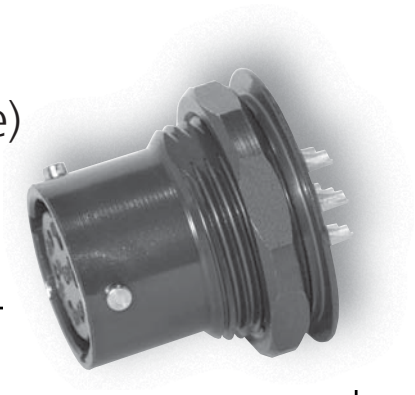
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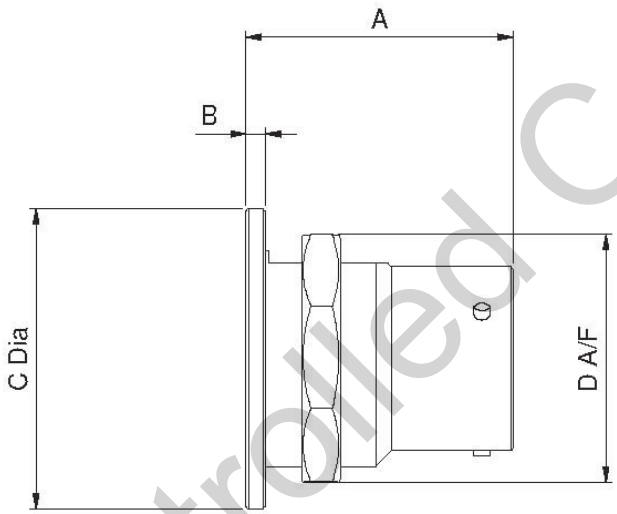
Shell Size	A	B	C thread UNEF 2A	D Ø
10	24.26	1.70	5/8" - 24	22.35

Thread measurement is imperial, all other measurements in mm.

AB06-3300

fixed audio connector (thinner mounting flange)





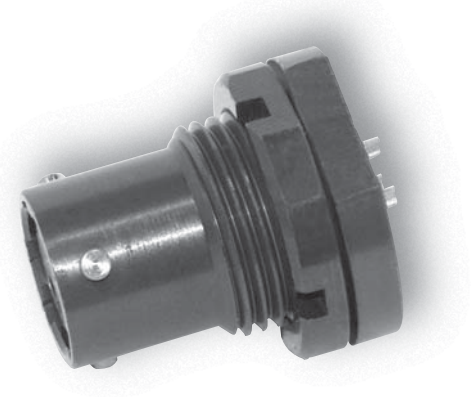
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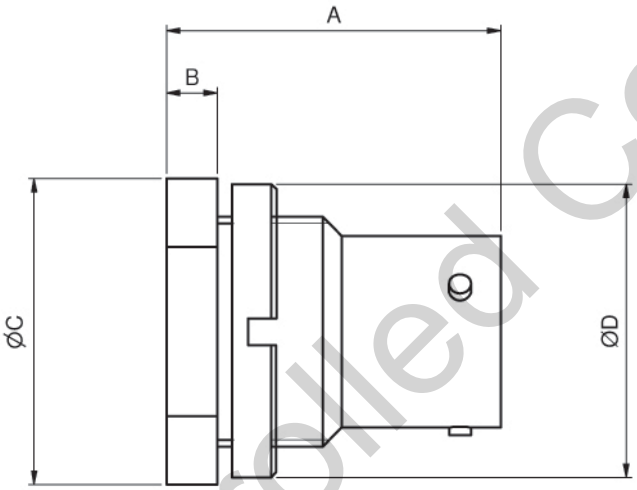
Shell Size	A	B	C Ø	D A/F
10	18.92	0.66	22.35	20.96

All measurements in mm.

AB06-3400

fixed connector single hole mounting
(modified flange)





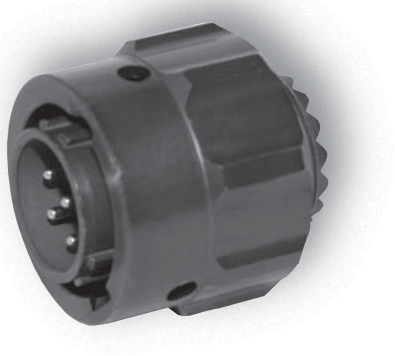
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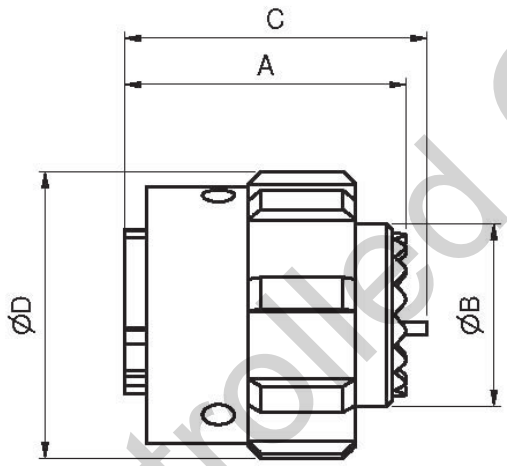
Shell Size	A	B	C Ø	D A/F
8	21.06	3.18	19.15	17.78

All measurements in mm.

AB06-6200

free connector with coarse ribbed coupling nut





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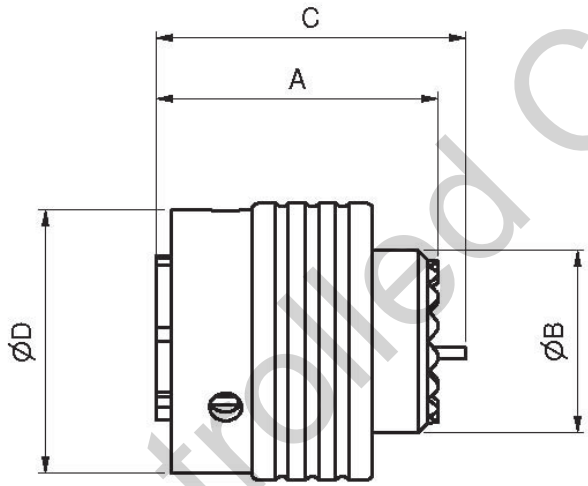
Shell Size	A	B thread Ø	C	D Ø
8	21.92	7/16 x 28 UNEF	23.27	21.94
10	21.92	9/16 x 24 UNEF	23.27	22.35
12	21.92	11/16 x 24 UNEF	23.27	28.58

Thread measurement is imperial, all other measurements in mm.

AB06-6400

free connector ‘snatch’ release coupling nut





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Shell Size	A	B thread Ø	C	D Ø
10	21.92	9/16” x 24 UNEF	23.27	21.59

Thread measurement is imperial, all other measurements in mm.

AB06
accessories part number explanation

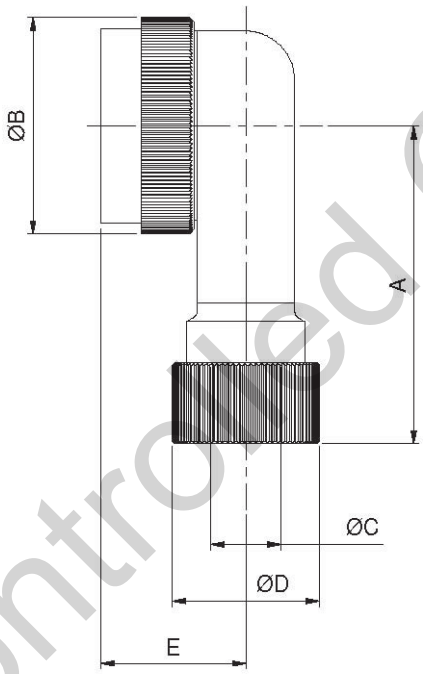
Accessories can also be ordered separately.
To illustrate the ordering procedure, part number AB06002010070021 is shown in the table below:

Product Range:		**AB06**	**00**	**20**	**10**	**07**	**00**	**21**
Shell Style:	00 No connector. Accessory only.							
Accessory Class	10 : 90° angled outlet 11 : 90° angled outlet (non standard, #10 accepts #12 cable) 20 : Straight outlet, large bore short boot 21 : Straight outlet, small bore short boot 22 : Straight outlet, small bore long boot							
Accessory Size:	08, 10, 12, (Increase in sixteenths of an inch)							
Contact Layout:	Refers to grommet where fitted. 00 No grommet supplied.							
Orientation:	00 No orientation.							
Modification:	21 Anodised black def 151 type 1.							

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AB06-0010
90° angled outlet





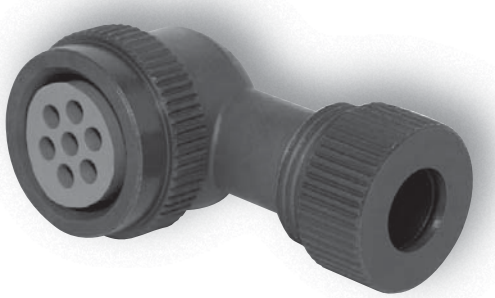
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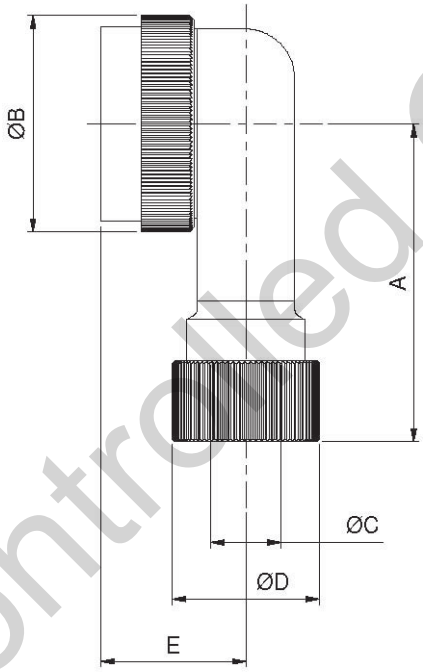
Shell Size	A	B Ø	C Ø	D Ø	E
10	25.25	20.32	7.74	13.72	13.56
12	26.51	21.23	8.03	16.64	15.08

All measurements in mm.

AB06-0011

90° angled outlet
(non-standard, #10 acccepts #12 cable)





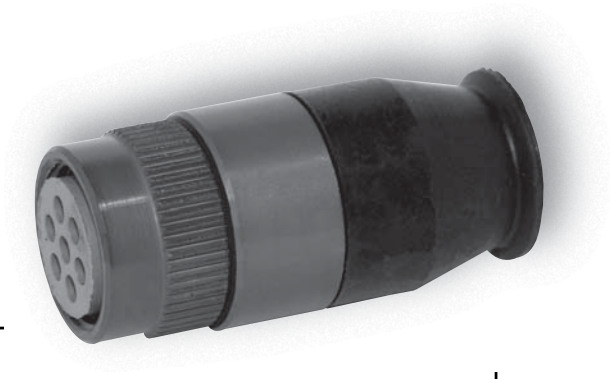
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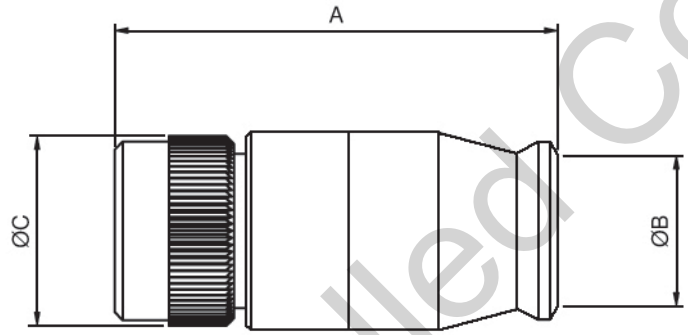
Shell Size	A	B Ø	C Ø	D Ø	E
10	25.25	20.32	8.03	16.64	13.56

All measurements in mm.

AB06-0020

straight outlet, large bore short boot





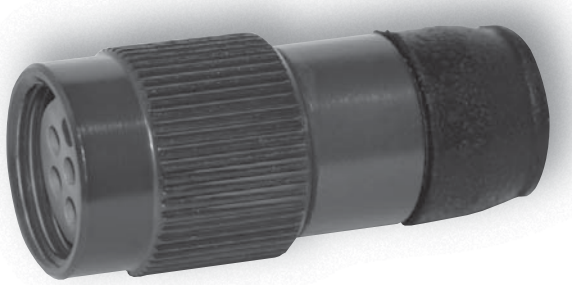
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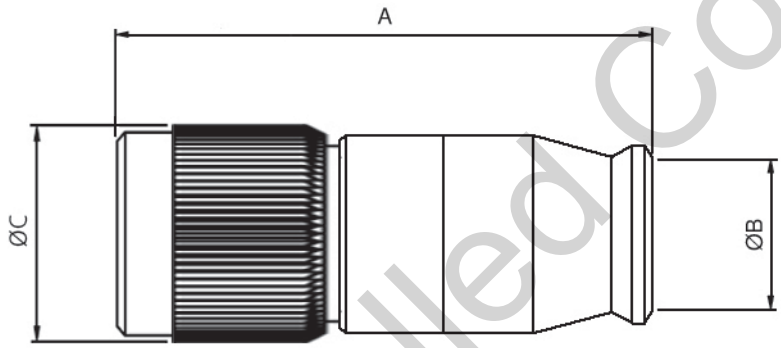
Shell Size	A	B Ø	C Ø
8	34.13	7.26	15.88
10	42.25	7.26	17.70
12	42.44	7.26	21.46

All measurements in mm.

AB06-0021

straight outlet, small bore short boot





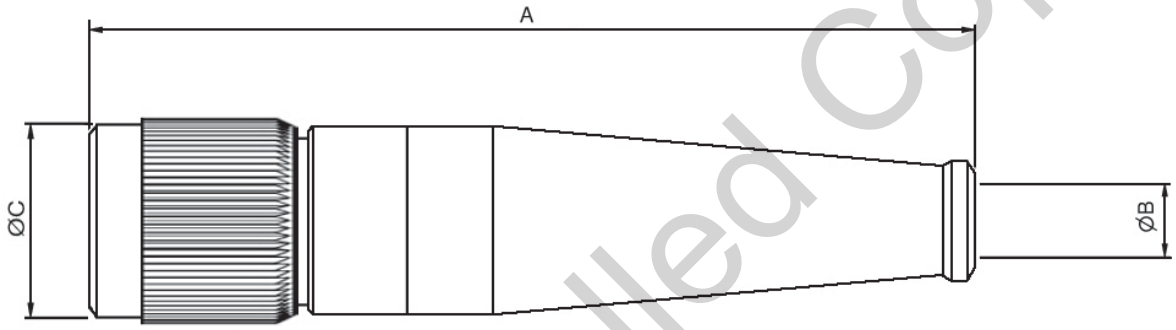
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Shell Size	A	B Ø	C Ø
8	34.13	5.08	15.88
10	42.25	5.08	17.70
12	42.44	5.08	21.46

All measurements in mm.

AB06-0022

straight outlet, small bore long boot



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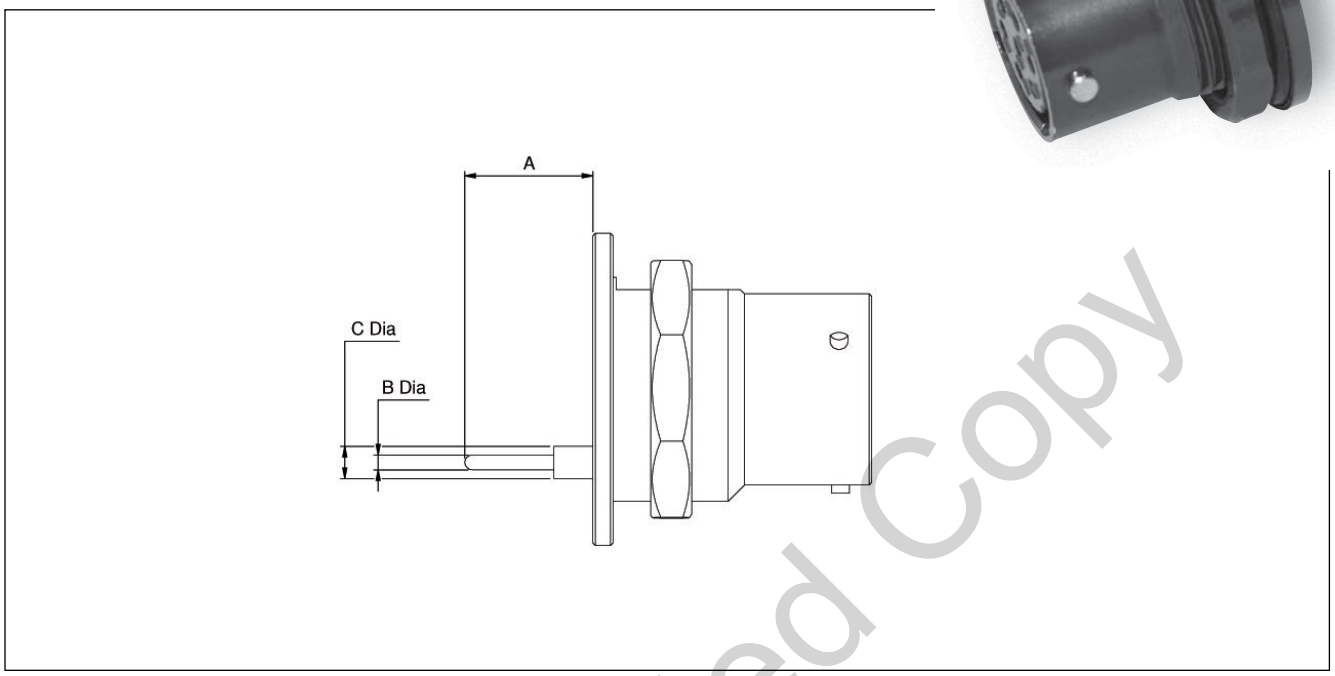
Shell Size	A	B Ø	C Ø
10	78.35	5.08	16.74

All measurements in mm.

AB06-Printed Circuit Tail Detail

receptacle, single hole mounting



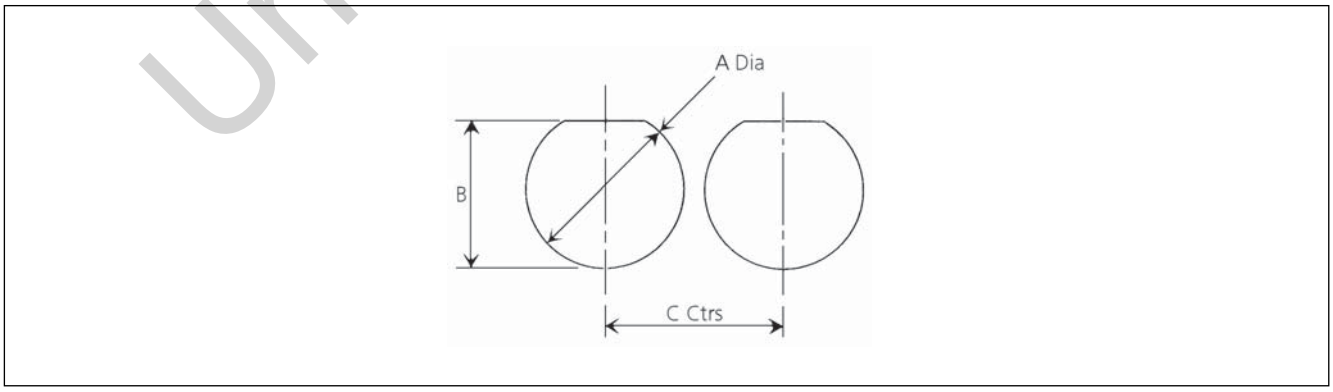


Shell Size	P.C.B Contact			P.C.B. Contact (non-standard)		
	A	B Ø	C Ø	A	B Ø	C Ø
10	3.48	1.98	0.94	7.24	2.13	0.71
12	1.45	1.98	0.94	5.21	2.13	0.71

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AB06-Panel Piercing Detail

receptacle, single hole mounting



Shell Size	A Ø	B	C
08	14.43	No flats	19.3
10	17.65	16.81	25.83
12	21.16	17.78	29.72

All measurements in mm.

Safety Information

This information is to be used in conjunction with the Product Catalogue and Product Specification. Products may be safely used in the applications for which they have been designed and within the specified ratings and environments. If products are exposed to conditions outside the performance ratings or specified environments they may constitute a hazard. In particular it should be noted that:

1) Material Content of Products

Circular connectors generally use metalwork parts made of copper, copper alloy, aluminium alloy, aluminium - bronze or steel, which, dependant on the particular application, may be passivated and protected with cadmium or zinc plate - in conjunction with chromated or anodised surface finishes. The insulating materials can be either natural or synthetic rubber, together with plastic or glass moulded parts. Contact materials vary with product type but are usually made of copper, copper alloy, nickel, phosphor - bronze, alumel chromel or steel.

2) Electric Shock, Burns and Fire

Hazard can occur if the product is used outside the specified parameters or if the product is damaged, wrongly wired or poorly assembled, or poorly integrated into larger equipments, or contaminated with conductive fluids. Live circuit terminations must be protected and live circuits never broken by demating products. Hotspots may be created when resistance is increased due to damage or incorrect integration particularly soldering, crimping or loose terminations. Overheating can cause breakdown of insulation, electric shot, burns or, ultimately, fire. In the event of fire noxious and/or toxic fumes may be eleased and, in these circumstances, any fire involving the product should be dealt with by personnel properly equipped.

Connector products with exposed termin tions or contacts should not be used on the current supply s de of a circuit with exposed contacts on an unmated product. Before making a circuit live, the p oduct a d wiring should be checked to ensure that there s no damage and no electrically conducting debris pres nt. Circ it resistance checks should also be conduct d b ore m king the circuit live. Always ensure that the co rect ools, (specified by AB Connectors Ltd.) are employed fo crimping and assembled and wired by properly tr ined pe sonnel.

3) Disposal or Products

Products should not be burnt.

4) Use, Transport and Storage of Products

Care must be taken to avoid damage to any part of the products during transportation, storage or use. The products as manufactured, are free of sharp edges. Abnormal transit or storage conditions and abuse during installation can give rise to damage. Products should not be used in a damaged condition.
Improper storage (particularly of damaged products) can give rise to additional hazards particularly corrosion. Your attention is specifically drawn to the need of proper storage of products containing cadmium and you are advised to see the Guidance Note from the Health and Safety Executive on Cadmium - Health and Safety Precautions.

Safety Rules

1. Ensure all conductor wires are capable of withstanding the electrical and environmental conditions of the application.
2. Always use the correct assembly tools for cables, contacts and connectors.
3. Make circuit resistance checks before making a circuit live.
4. Always protect live circuits and never demate a live connector.
5. Never use a damaged connector.
6. Never burn discarded connec ors or cable.
7. IF IN DOUBT, ASK.

N. B. Additional inf rmation on the products and the materials used in th m may be obtained from the Sales Department of AB Connect s Ltd.

Shelf Life for Rubber Components

AB Connectors incorporate a number of rubber components within their connectors. Most rubbers change in physical prop rties during storage e.g. excessive hardening, softening, cr cking or other surface degradation. These changes may be the result of particular factors or a combination of factors such as light, heat, humidity, oils or solvents.

With a few simple precautions the shelf life may be considerably lenghtened.

The storage temperature should be between +5° and +25°C. Direct contact with sources of heat such as boilers, radiators and direct sunlight should be avoided. It is advisable to cover any windows of storage rooms with a red or orange coating or screen. The relative humidity in the storeroom should be below 70%. Very moist or very dry conditions should be avoided. Condensation should not occur.

If the above recommendations are adhered to, then AB Connectors would warrant a shelf life of four years for its products.

N. B. The company reserves the right and may change or vary specification without prior written notice.

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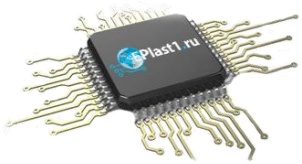
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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