

AB05/6

Connectors

Mil-C-26482 Series 1 Style



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

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

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 -55°C to 125°C. 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.



Fast Facts

AB05, BS9522 F0017 DESIGN, MIL-DTL-26482 SERIES 1



This British Standard version offers additional design advantages to the MIL-DTL-26482 Series 1 connector type. An economic, lightweight solution for use in a broad range of military, industrial and commercial applications. These connectors feature 3 pin bayonet coupling or an alternative “push-pull” version in shell sizes 10 and 12 for quick release applications.

APPLICATIONS

- Basic military junction boxes to complex systems
- Radio, power and communication
- Soldier equipment
- Instrumentation
- Monitoring equipment / data logging
- Factory automation
- Oil and gas
- Utilities

FEATURES

- Mil-C-26482 Series 1 style, conforms to BS 9522 F 00017, CECC 75201003
- Miniature 3 pin bayonet lock (also push-pull types)
- Polychloroprene inserts, -55°C to + 125°C
- 1 to 61 contacts, 7.5 to 13 Amps
- Up to 5 shell to shell key options are available, to prevent mis-mating
- Insert orientations available upon request to match existing MIL-DTL-26482 types
- Option to use crimp contacts
- Option to use Halogen free insulation materials
- RoHS compliant plating options available

MARKET SEGMENTS

- Communications
- Industrial
- Land based military

OUR ADVANTAGES

- Product produced at UK and USA manufacturing sites, improving availability and aftersales support
- Ease of assembly and increased application flexibility with crimp removable contacts
- BS9522 F0017 design advantages
 - > Serrations at rear of connector shells offers improved grounding and backshell location
 - > Additional polarisation using keyways rather than only insert rotations, which avoids damaging contacts if mis-mated
 - > Plug can have the addition of grounding fingers for improved RFI shielding
 - > Optional course ribbed coupling nut to ease operator handling

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www.ttelectronics.com/connectors



HOW CAN I HELP?

AB05

Part number explanation

To illustrate the ordering procedure, part number AB05100010**PF00 is shown in the table below:

Product Range:	AB05	10	00	10	**	P	F	00
Shell Style:	<ul style="list-style-type: none"> 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:	<ul style="list-style-type: none"> 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 clamp 75 : Screen and heat shrink adaptor 2* : Screening heat shrink adaptor, sealing type (* Indicates Entry Size, see page 29) 3* : Screening heat sink adaptor 90° outlet, sealing type 							
Shell size:	08, 10, 12, 14, 16, 18, 20, 22, 24 (Increase in sixteenths of an inch)							
Contact layout:	** See pages 7-8							
Contact type:	<ul style="list-style-type: none"> P : Pin S : Socket 							
Orientation:	N, B, C, E & F (Insert orientation available only for replacement of MIL-C-26482 types. Please consult factory)							
Modification:	<ul style="list-style-type: none"> 00 : Solder contacts 01 : Crimp contacts. (Size 20, small bore, Ø 0.84) (Bore Ø 1.75, Size 16 only) 02 : Crimp 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 59 : Zinc Cobalt plating with Olive Drab passivate finish 100 : Zinc Cobalt plating with Black Drab passivate finish <p>(For additional modifications and special requirements please consult factory.)</p>							