Connectors MABAC Push Pull Series

Description

- A compact solution
 - The smallest connector (shell size 3)
 - Push Pull: quick disconnect
 - Integrated backshell:
 - Easy to wire and handle
 - Compatible with heat shrink boot and braid retention band
 - Compliant with overmolding

• A versatile solution

- 3 shells sizes: 3, 5, 7
- Plug; In line and jam nut receptacle
- 2 materials, 3 platings
- Crimp & PC tails (on request)
- Removable contacts #22D & #26
- 6 keyway orientations
- Harsh environment-resistant solution
 - Scoop proof (when sockets mounted into receptacle only)
 - Cavity to cavity sealed with interfacial seal and grommet
 - Fluid resistant

Technical Features:

Materials

Shell: Aluminum alloy Passivated stainless steel (for size 5 & 7)

- Shell plating:
 - Aluminum: . Zinc nickel (RoHS)
 - . Nickel (RoHS)
 - . Olive drab cadmium
 - Passivated stainless steel (RoHS)
- Insulator: Thermoplastic
- Contact body: Copper alloy
- Contacts plating: Gold over nickel plated
- Shell endurance: Aluminum:
 500 mating/unmating cycles Passivated stainless steel:
 1000 mating/unmating cycles
- Vibration: 30 grms ambient, 2 axes during 8 hours
- Shock: 300g, 3 ms

Electrical

• Wire size

Layout	Wire (AWG)
03-05	24-30
03-35	22-28
05-06	24-30
05-35	22-28
07-09	24-30
07-35	22-28

- Test voltage (at sea level): Size 22D: 1000 Vrms Size 26: 400 Vrms
- Contact resistance: Size 22D: <14.6 m Ω Size 26: <16 m Ω
- Contact rating: Size 22D: 5A Size 26: 3A
- Contact retention: Size 22D: 45N Size 26: 30N
- Shell to shell continuity (typical value)

Shell size	Aluminum version	Stainless steel version		
3		NA		
5	10 mΩ	60 mΩ		
7	10 m22	50 mΩ		

• EMI:

Aluminum: -70dB @ 1GHz Passivated stainless steel: -55 dB @ 1Ghz

Environmental

- Temperature range: -55°C to +175°C
- Water immersion: IP 67 on mated connector
 - 1 meter for 30 min minimum
 - > IP68 with appropriate cable termination
- Salt spray: Zinc nickel: 500 hours Nickel: 48 hours Olive drab cadmium: 500 hours Passivated stainless steel: 500 hours

Resistance to fluids

- According to MIL-DTL-38999 standard Gasoline: JP5 (OTAN F44) Mineral hydraulic fluid: MIL-H-5606 (OTAN H515) Synthetic hydraulic fluid: Skydrol 500 B4
- Compatible with de-icing fluids containing potassium acetate

www.ttabconnectors.com www.ttelectronics.com



General Note

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Dimensions





Shell size	А	B Max	C Max	Ø D Max
3	11	17.7	6.1	7.3
5	12.8	19.1	6.1	9
7	14.3	24	6.1	10

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Note: All dimensions are in mm.

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Note: All dimensions are in mm.

Connector weights

Weight

Aluminum version (in gram ±10 %)

Shall size & layout	Plug		In line receptacle			
Shell size & layout	Without contacts	With crimp contacts	Without contacts	With crimp contacts		
03-05	1.7	1.8	1.3	1.4		
05-06	2.6	2.8	2.9	3.1		
07-09	4.3	4.7	4.7	5.1		

Note: All dimensions are in millimeters (mm). Shell design vary according to shell size. For L contact (long PC tail) please consult us.

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99



Orientations



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3b





For other configuration (PC tail, specific jam nut, ...) please consult us.

Contact layouts



Note: For information only.

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3b



Ordering information

Push Pull Series	MABAC P	6	W	05	35	Р	Ν	xxx
Shell Style: 06 = Cable Plug 01 = In-line Receptacle 00 = Box Receptacle 4 hole 07 = Jam Nut Receptacle								
Material and Finish: W = Cad F = Electroless Nickel Z = Zinc Nickel K = Stainless Steel								
Shell size: 03, 05, 07								
Insert Arrangement: See contact layouts								
Contact type: P = Pin S = Socket								
Orientation : N = Normal Alternative A,B,C,D,E								
Modification code								

Modification code

General Note

