

8STM Connectors



Description

- **A compact solution**
 - The smallest connector available on the market (shell size 02)
 - Miniaturization of standard MIL-DTL-38999
 - Quick bayonet locking: the smallest easy to mate circular
 - Integrated backshell: easy to wire and handle
- **A high density solution**
 - 3 shells sizes: 02, 04, 06
 - Layouts: 02-05; 02-35; 04-05; 04-06; 04-35; 06-05; 06-35
 - In line receptacle, square flange receptacle and jam nut receptacle; plug
- **A versatile solution**
 - Crimp, PC tails
 - Integrated backshell compatible with heat shrink boot and braid retention band
 - Removable contacts #22D & #26
 - 6 mechanical keys
- **A MIL - DTL - 38999 environmental resistant solution**
 - Scoop Proof
 - Cavity to cavity sealed with interfacial seal and grommet
 - 500 mating / unmating cycles
 - Salt spray:
 - . Olive drab cadmium plating: 500 hours
 - . Electroless nickel: 48 hours
 - Fluid resistant

Applications

- Solutions for land warrior
- UAV
- Armoured vehicle
- Missiles
- Helicopters

Technical Features

Mechanical

- **Shell:** Aluminium alloy
- **Shell plating:** Olive drab cadmium; Nickel
- **Insulator:** Thermoplastic
- **Contact body:** Copper alloy
- **Endurance:** 500 mating / unmating operations

Electrical

• Wire size

Layout	Wire (AWG)
02-05	24-30
02-35	22-28
04-05 / 04-06	24-30
04-35	22-28
06-05	24-30
06-35	22-28

- **Test voltage:**
 - Size 22D: 1000 Vrms
 - Size 26: 400 Vrms
- **Contact resistance:**
 - Size 22D: <14.6 mΩ
 - Size 26: <16 mΩ
- **Contact rating:**
 - Size 22D: 5A
 - Size 26: 3A

• Shell to shell continuity

Shell size	Standard
02	100 mΩ
04	
06	

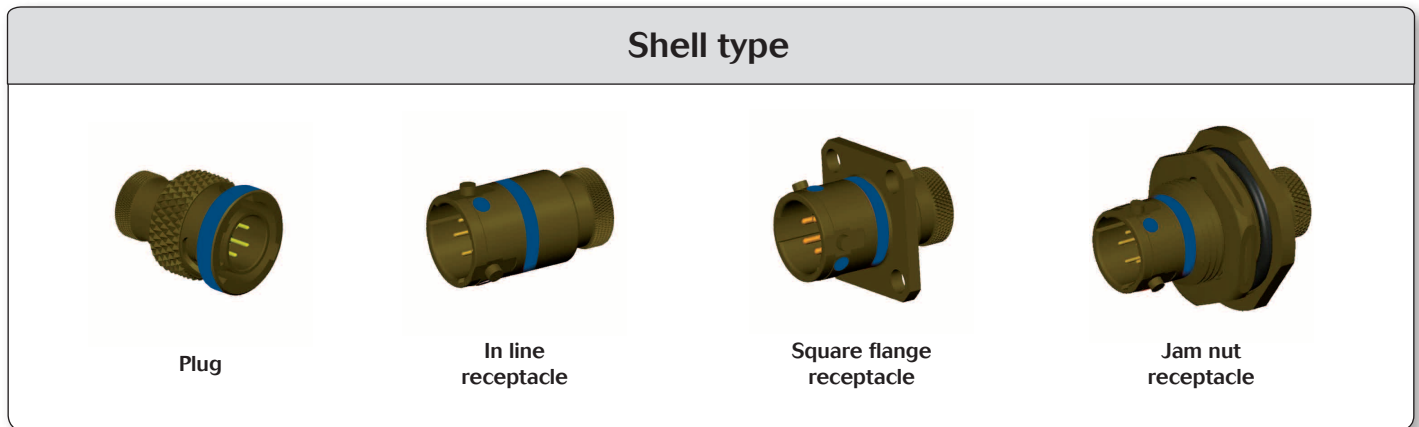
- **EMI:** 45dB at 100MHz

Environmental

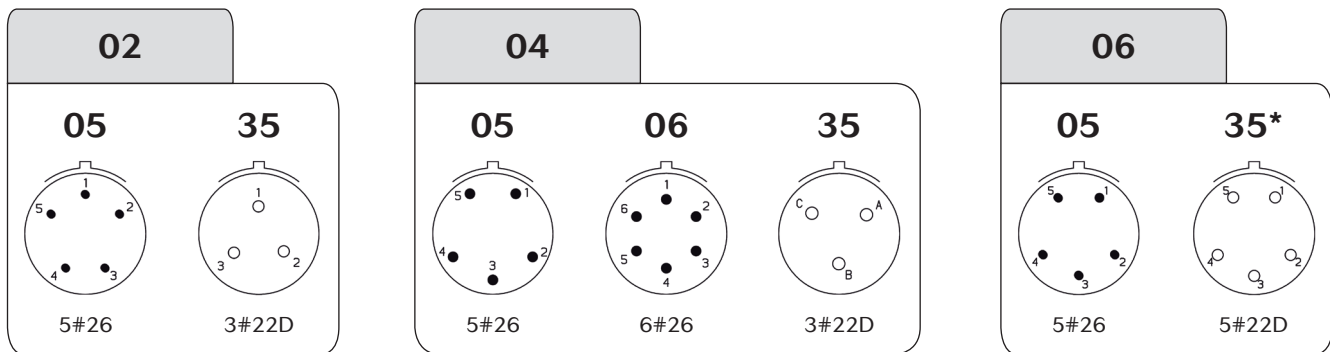
- **Temperature range:**
 - Olive drab cadmium: -65°C to +175°C
 - Nickel: -65°C to +200°C
- **Water immersion:** IP 67 -1 meter for 30 min mini
- **Salt spray:**
 - Olive drab cadmium: 500 hours
 - Nickel: 48 hours



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Contact layouts












* For PC tail contacts, please consult us.

Ordering information

Basic Series	8STM	0	C	02	W	05	P	N	...
Shell type:									
0: Square flange receptacle with conductive gasket									
1: In line receptacle with conductive gasket									
6: Plug without conductive gasket									
7: Jam nut receptacle with conductive gasket									
Style:									
None: Connectors with standard crimp contact									
C: Receptacle with PC tail contacts (shell styles 0 and 7 only)									
Shell size: 02 - 04 - 06									
Plating :									
W: Olive drab cadmium									
F: Nickel									
Contact layouts: See table in the beginning									
Contact type:									
P: Pin									
S: Socket									
Orientation:									
N, A, B, C, D, E, U: Blue									
Specification:									
None: Standard version									
022: Fuel tank version									



Shell size comparison

	Plug		Square flange receptacle
Shell size 2	 10.4 mm	 16.15 mm	 16.15 mm
Shell size 4	 13.3 mm	 18.3 mm	 18.1 mm
Shell size 6	 15.2 mm	 22.0 mm	 23.0 mm

Weight comparison (in gram)

	Plug (female)		Receptacle (male)	
	Without contacts	With contacts	Without contacts	With contacts
02-35	1,71	1,93	1,83	2,05
04-35	2,99	3,21	2,55	2,77
06-35	4,57	4,94	4,06	4,43

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