

# TAC CONNECTORS

## Miniature M55116-Type Connectors

New military and commercial applications are demanding a reduction in connector size and weight without a loss of performance. Amphenol NEXUS Technologies has met that demand with its new Miniature M55116-Type **TAC Connectors** for soldier-worn applications, radio systems, and ruggedized communications systems.

**TAC Connectors** are designed and manufactured to the exacting specifications of MIL-DTL-55116 requirements at half the size of the standard connectors.

Amphenol NEXUS Technologies **TAC Connectors** are the ideal choice to reduce size and weight and still maintain many of the same performance benefits wherever a M55116 connector is needed on a newly designed system.

### Features

- Both plug and receptacle are **50% smaller** than the standard M55116 connectors (M55116/4 and M55116/10, as a comparison)
- Plugs have rigid contacts; receptacles have spring-loaded contacts with solder cup terminals
- Molded-in spring-loaded contacts provide self-cleaning feature and eliminate issues with pin/socket open contacts
- Standard wire strain relief accommodates .125 & .250 cable diameter

### Options

- **NEW In-Line Receptacles now available**
- 6- or 7-contacts available. Standard M55116 connectors have 5 – and 6-contact versions, but increase in application options has created the need for a 7-contact version
- Solder-type contacts can also be used as a PC tail
- Wire strain relief can be supplied for larger/smaller size cable diameters. Standard strain relief is for .250 cable
- Special modifications, such as filtering and shielding, are available

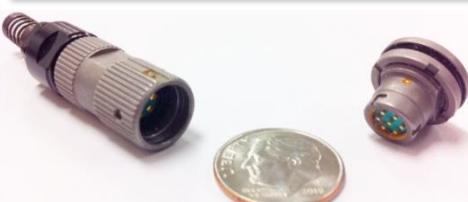
### Part Numbers

Part Number	Connector Style
MAP-56-30	6-Conductor Plug
MAP-57-30	7-Conductor Plug
MAP-56-50	6-Conductor Plug (for Overmolding)
MAP-57-50	7-Conductor Plug (for Overmolding)
MAJ-16-00	6-Conductor Panel Mount Receptacle
MAJ-17-00	7-Conductor Panel Mount Receptacle
MAJ-56-30	6-Conductor In-Line Receptacle - <b>NEW</b>
MAJ-57-30	7-Conductor In-Line Receptacle - <b>NEW</b>



**NEW!!! TAC In-Line Receptacle**

MAJ-56-30 compared to M55116/14



TAC / Standard M55116 size comparison



### Technical Specifications

Shell:	Stainless Steel, Passivated
Finish:	Sand Blast, finish type E300 IAW MIL-F-14072
Mating:	Bayonet Coupling
Temperature:	-55°C to +85°C
Insert Material:	Thermoset Plastic
Contacts:	Gold-plated Brass / Silver-plated BeCu (Springs)
Current Rating:	0.5 amperes
Voltage Rating:	60V max
Dielectric Withstanding Voltage; Sea Level:	500V
Insulation Resistance:	1000 megaohms min, except for connectors unmated after immersion test shall not be less than 100 megaohms
Contact Resistance:	.050 Ω max

Contact Amphenol NEXUS Technologies for pricing, availability, or other technical questions.