

# 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 megaohr
Contact Resistance:	.050 Ω max

