SIZE 12 SMPM CONTACTS

SUPPORTS SIGNAL TRANSMISSION UP TO 65 GHZ

TE Connectivity's (TE) latest size 12 SMPM contacts will support up to 65 GHz, enabling usage in many new applications. This product was adopted in the SOSA™ technical standard released in 2021, which is being widely adopted in every military branch. This standard includes the option for high density, high frequency RF: the J8 connector per MIL-DTL 38999 standard with our size 12 SMPM contacts will admirably address this requirement.

FEATURES AND BENEFITS

- **High-Frequency Ready**: Engineered for seamless integration with MIL-DTL-38999 connectors and DMC-M Series III connectors, our Size 12 SMPM supports signal transmission up to 65 GHz and is ideal for expanding high-speed RF systems.
- Impedance matching (50 Ohm) enables support for up to 65 GHz
- Addresses emerging need for high frequency, high density RF outside the box
- Aligned with the SOSA™ standard helps ensure broad acceptance in many military markets
- Designed for standard MIL-DTL-38999 housings and inserts

TARGET MARKETS

- Military Marine
- Missile Defense
- Ground Defense
- Military Aerospace
- Radar

TE connectivity

ELECTRICAL

- **Contact:** RF size 12 coax
- **Connector:** 38999 Series III and DMC-M Series III
- **Frequency:** DC - 65 GHz
- **Impedance:** 50 Ohms
- **Insertion Loss:** 0.12√ frequency (GHz) dB

ENVIRONMENTAL

- **Temperature Range:** -65°C to +165°C
- **Durability:** Up to 500 cycles

MATERIAL

Pin

- **Shroud and Sleeve:** Stainless steel
- **Body and Center Contact:** Copper alloy
- **Insert:** Brass
- **Insulator:** PTFE
- **Spring:** Stainless steel

Socket

- **Body and Center Contact:** Copper alloy
- **Insert:** Brass
- **Insulator:** PTFE

FINISH

Pin

- **Shroud, Sleeve and Spring:** Passivated
- **Body, Insert and Center Contact:** Gold plate, per ASTM B488 over nickel plate per SAE-AMS-QQ-N-290

Socket

- **Body, Insert and Center Contact:** Gold plate, per ASTM B488 over nickel plate per SAE-AMS-QQ-N-290

SPECIFICATIONS

- MIL-DTL-38999
- SOSA Technical Standard

ALIGNED TO SOSA™ HIGH DENSITY RF CONNECTORS

						Panel Interconnect		I/O Cable Interconnect	
Connector Designation	Connector Type	Shell Size	Keying	Insert	Cable Dia.	Connector Part Number	Contact Part Number	Connector Part Number	Contact Part Number
J8	MIL-DTL-38999 Series III	25	N	25-19	0.86"	D38999/20*J19BN	2389333-1	D38999/26*J19AN	2389332-1
J8	MIL-DTL-38999 Series III	25	N	25-19	0.47"*	D38999/20*J19BN	2500687-1	D38999/26*J19AN	2500686-1
J8	MIL-DTL-38999 Series III	21	N	21-11	0.86"	D38999/20*G11BN	2389333-1	D38999/26*G11AN	2389332-1
J8	MIL-DTL-38999 Series III	21	N	21-11	0.47"*	D38999/20*G11BN	2500687-1	D38999/26*G11AN	2500686-1

* Coming soon

For more information on specific product offerings, technical information, availability and customization, please contact your TE Application Engineer or Account Manager

te.com/rf

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