



MKJ Warrior Series - Miniature, Harsh Environment Connector Family for Soldier Worn Systems



ITT Cannon's MKJ Warrior Series offers a reliable interconnect solutions that enable critical communication, navigation and USB data/power for modern soldier applications. Derived from Cannon's robust MKJ Connector Family, the MKJ Warrior Series provides a robust breakaway coupling system, designed per the US Nett Warrior* specification and qualified to the European GOSSRA and NATO STANAG 4695 standard.

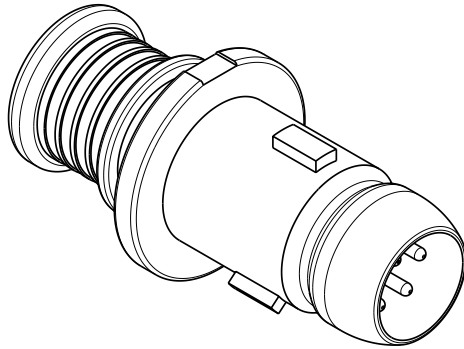
* Undergoing qualification - Nett Warrior

Features & Benefits

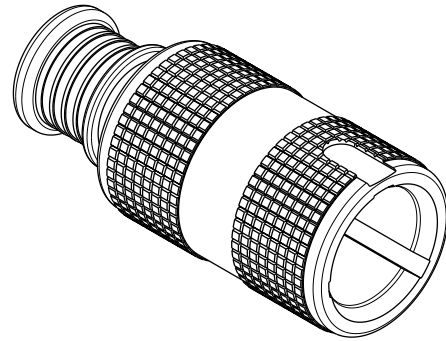
- GOSSRA and NATO STANAG 4695 Standard qualified. Nett Warrior qualification pending
- Robust coupling mechanism with Cannon Breakaway, a canted retention spring system
- "First-mate-last-break" pin ground for hot-swap USB requirement
- Plating: Black Zinc Nickel or Selective Plating
- Contact Types: Rear Crimp, Solder Cup, PCB Mount
- Standard or High Power Size 23 Contacts
- Durability: 2,000 mating Cycles
- Consult factory for higher amperage contact system or contact/shell grounding options

Specifications

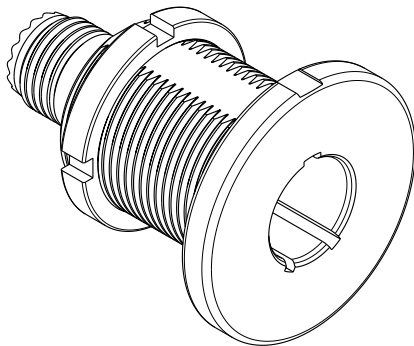
Contact Engagement and Separation	Per SAE AS39029, Table 9 for applicable values
Contact Retention	Size 23 Contacts – 6 lbs; Minimum axial load force shall not displace contacts more than .012 inches
Breakaway Force	12 +/- 3 lbs of tension before breaking connection
Mechanical Shock	300g, Peak, 3ms, 1/2-sine shock pulse. No electrical discontinuity > 1μs Random Vibration No electrical discontinuity > 1μs, 37g Peak Sinusoidal Vibration No electrical discontinuity > 1μs, 30g Peak
Random Vibration	No electrical discontinuity > 1μs, 37g Peak
Sinusoidal Vibration	No electrical discontinuity > 1μs, 30g Peak
Reflectance	Exposed Portions of connectors shall not expose shiny, reflective surfaces
Color	Exposed portions of connector shall be black
Chemical Safety	Materials shall not create a toxic health hazard
Marking	Each connector shall include clearly readable part number manufacturer information
Durability	2000 Mating cycles
Wire Accommodation	#22 - #28 AWG
Current Rating	5 Amps Max Standard Contact / 7.5 Amps Max High Power Contact
Materials	Shells - Aluminum Alloy with Black Zinc Nickel or Electroless Nickel Finish
	Insulators - Thermoplastic
	Seals - Fluorosilicone
	Contacts - Copper Alloy with gold over nickel plating



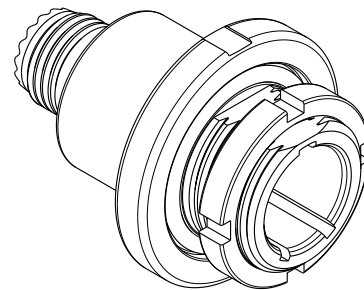
In-line Plug, Banded or Accessory Thread with Crimp Contacts*



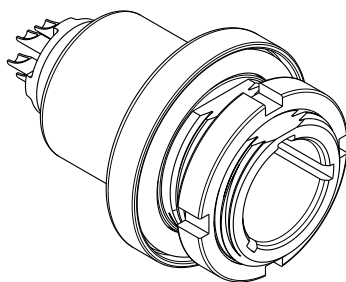
In-line Receptacle, Banded or Accessory Thread with Crimp Contacts*



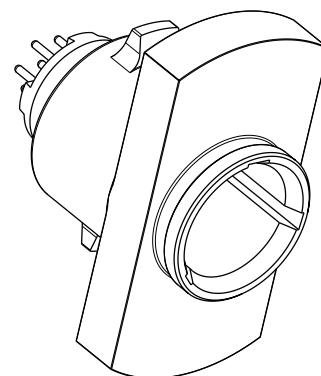
Jam Nut Receptacle, Banded or Accessory Thread



Jam Nut Receptacle Rear Mount, Accessory Thread



Jam Nut Receptacle Rear & Front Mount, PCB Solder Cup



Flange Mount Battery Receptacle - PC Tail

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