

MIL-PRF-28876

Military Shipboard Fiber Optic Connectors



STRAN Technologies offers cylindrical multi-pin and socket fiber optic connectors manufactured and qualified to the design and interface requirements referenced in the MIL-PRF-28876E specification. This series of connectors provide multi-channel interconnects for 2, 4, 6, 8, 18 and 31* contacts (termini) in a single circular shell. The M28876 connectors offer the customer a very reliable, rugged interconnect product that is designed to provide low loss over 20+ years of life in harsh environments. Various configurations allow this series to accommodate many variables based upon the customers needs.



M28876 4ch Plug & Receptacle

Features:

- Corrosion resistant – some coatings up to 2000 hours salt spray resistance
- Singlemode/multimode operation
- High impact shock and thermally resistant
- Field maintainability
- Low loss (<0.5dB typically, SM or MM)
- Environmental and moisture sealed

- Sealed floating termini design
- Variety of backshells: Straight, 45 and 90 degree versions*
- Available in a variety of backshells:

*Straight, 45 and 90 degree versions, and in various materials and finishes which include Cadmium/Nickel over Al, Nickel/Boron and Hard-coat anodized over Al, and 303 or 316 stainless steel

*Note: Not all combinations, shell sizes or finishes are approved by the US Navy

Applications:

- Marine and Navy Shipboard Systems
- Corrosive Environments
- Petro-Chemical Environments
- Caustic Environments

Military Part Number:

For QPL items, please use the appropriate military part number referenced in the M28876 general specification.



M28876 8ch Plug & Receptacle

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MILITARY SHIPBOARD

ENERGY

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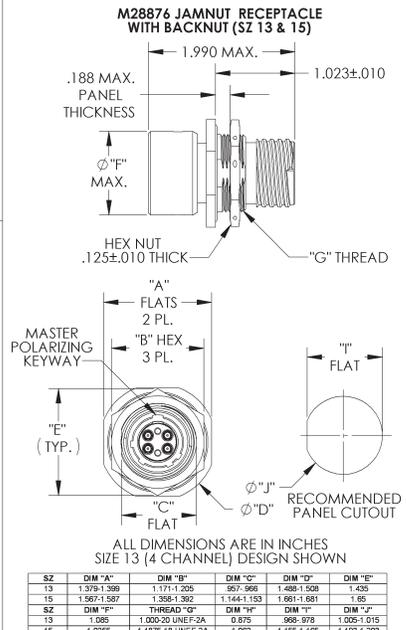
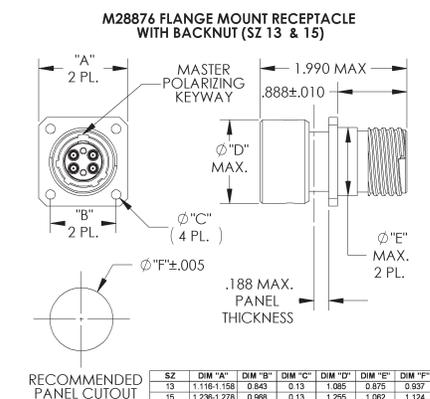
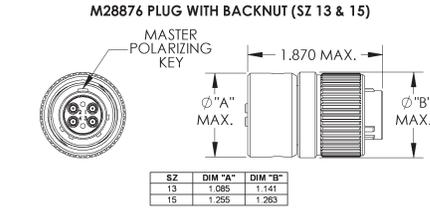
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Performance Criteria and Specifications:

Optical Loss	9/125: 0.75 dB _{max} , 0.35 dB _{typ} 62.5/125: 0.75 dB _{max} , 0.14 dB _{typ}
Return Loss	>30 dB MMF, >40 dB SMF with PC polish
Mating Durability	500 cycles per EIA-455-21
Vibration	Per EIA/TIA-455-11
Thermal Shock	40°C to +70°C per EIA-455-71
Cable Pull-Out Force	>162 lbs per MIL-PRF-28876, para 3.11.4
Shock	Per MIL-S-901D
Humidity	Per EIA-455-5, Type 2
Fluid Immersion	Per EIA-455-12A
Crush Resistance	218 lbs per MIL-PRF-28876E, para 4.6.5.7
External Bend Moment	300 in-lb per MIL-PRF-28876, para 4.6.5.2
Cable Seal Flexing	Per MIL-STD-1344, Method 2017
Impact	Per EIA-455-2
Temperature Cycling	Per TIA/EIA-455-3
Life Aging	Per MIL-PRF-28876E FOTP-4
Water Pressure	Per MIL-PRF-28876E, para 4.6.6.15