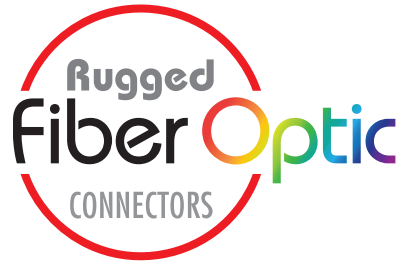


GLENAIR
SIGNATURE
FIBER OPTIC
CONNECTION
SYSTEMS



NAVSEA-qualified
MIL-PRF-28876
connectors and
M29504/14 and /15
termini

Terminated and tested
MIL-PRF-28876 fiber optic
cable assembly



Qualified and Glenair commercial
MIL-PRF-28876 fiber optic connectors and
MIL-PRF-29504 termini—Navy approved,
in stock, and ready for immediate shipment

- Connectors qualified to the complete requirements of MIL-PRF-28876
- 2, 4, 6, 8, 18 and 31 channel layouts
- Backshells in straight, 45° and 90° configurations
- Corrosion-resistant and environmentally sealed
- Qualified mil-prf-29504/14 and /15 pin and socket termini and /03 dummy terminus
- Connectors, backshells and protective covers available for immediate, same-day shipment



M28876/11 jam nut
receptacle

M28876/7
plug with backshell

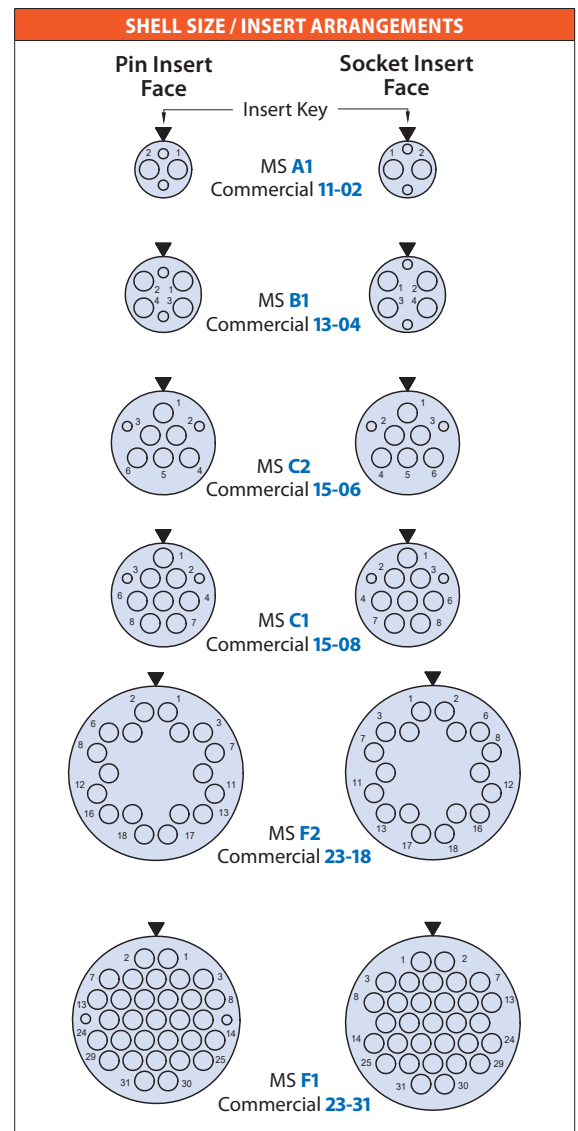
M28876/2 receptacle
with backshell

Qualified MIL-PRF-28876 Shipboard Fiber Optic Connection System

| AVAILABLE CONNECTOR AND BACKSHELL ASSEMBLIES | | | |
|--|----------------|-----------|---------------|
| Connector Type | Backshell Type | MIL-Spec | Commercial |
| Wall Mount Receptacle | None | M28876/1 | 180-040 (030) |
| | Straight | M28876/2 | 180-040 (13) |
| | 45° | M28876/3 | 180-040 (23) |
| | 90° | M28876/4 | 180-040 (33) |
| In-Line Receptacle | None | N/A | 180-040 (05) |
| | Straight | M28876/5 | 180-040 (15) |
| Plug | None | M28876/6 | 180-040 (06) |
| | Straight | M28876/7 | 180-040 (16) |
| | 45° | M28876/8 | 180-040 (26) |
| | 90° | M28876/9 | 180-040 (36) |
| Jam Nut Receptacle | None | M28876/11 | 180-040 (04) |
| | Straight | M28876/12 | 180-040 (14) |
| | 45° | M28876/13 | 180-040 (24) |
| | 90° | M28876/14 | 180-040 (34) |

| TEST DESCRIPTION | PERFORMANCE REQUIREMENTS/SPECIFICATIONS |
|--|---|
| Optical Insertion Loss, Multimode | -0.3 dB Typical (62.5/125) |
| Optical Insertion Loss, Singlemode | -0.3 dB Typical (9/125) |
| Optical Back Reflection, Singlemode | Better than -40 dB - PC Polish • Better than -50 dB - Enhanced PC Polish |
| Operating Temperature | -28°C to +65°C (MIL-Spec Epoxy and Cable) -55°C to +125°C (alternative Epoxy and Cable) |
| Temperature (Thermal) Shock | -40°C to +70°C, 5 Cycles |
| Temperature Cycling | -28°C to +65°C, 5 Cycles |
| Temperature/Humidity Cycling | -10°C to +65°C, 10 Cycles, 240 hours, 98% RH |
| Temperature Life Aging | +110°C, 240 hours, Dry Air |
| Mating Durability | 500 cycles |
| Vibration - Sinusoidal | 10 g Peak, 5-500 Hz sin./ 10.2 g RMS, 50-2000 Hz random |
| Impact | 8 Drops from 8 feet |
| Crush Resistance | 281 lbs, 7 Cycles |
| Cable Pull Out Force - Termini | Termini: 22 lbs min for 1 minute Connector: 162 lbs min for 10 minutes |
| Fluid Immersion | Turbine Fuel, Isopropyl Alcohol, Hydraulic Fluid, Lubricating Oil, Coolant, Tap- and seawater, 24 hrs |
| Water Pressure | 32 feet for 48 hours at +10°C to +35°C |
| Mechanical Shock (High Impact) | MIL-S-901, Grade A, Type B, Class I |
| Corrosion Resistance (Salt Spray) | 500 hours |
| Sand and Dust | 12 hours |
| Flammability | 0.75 inch flame for 10 sec. mated, 1.50 inch flame for 60 sec. unmated |
| *Performance Specifications/Requirements based on the use of MIL-PRF-24792 Epoxy and MIL-PRF-85045 Simplex and Breakout Shipboard Optical Fiber. | |

| QUALIFIED FIBER OPTIC TERMINI | | | |
|-------------------------------|----------------------|-----------------|--------------------|
| Type | Military Part Number | A Dia (Microns) | Typical Fiber Type |
| Pin Termini | M29504/14-4131C | 126.0 | Multimode |
| | M29504/14-4132C | 127.0 | Multimode |
| | M29504/14-4135C | 142.0 | Multimode |
| Socket Termini | M29504/15-4171C | 126.0 | Multimode |
| | M29504/15-4172C | 127.0 | Multimode |
| | M29504/15-4175C | 142.0 | Multimode |
| Dummy Terminus | M29504/03-4038 | | |



NAVSEA / Underwater Fiber Optics