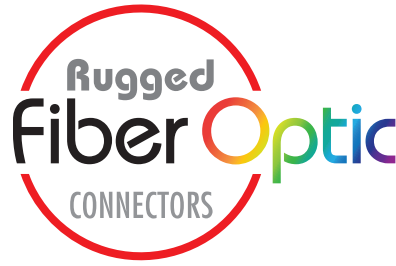


GLENAIR
SIGNATURE
FIBER OPTIC
CONNECTION
SYSTEMS



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

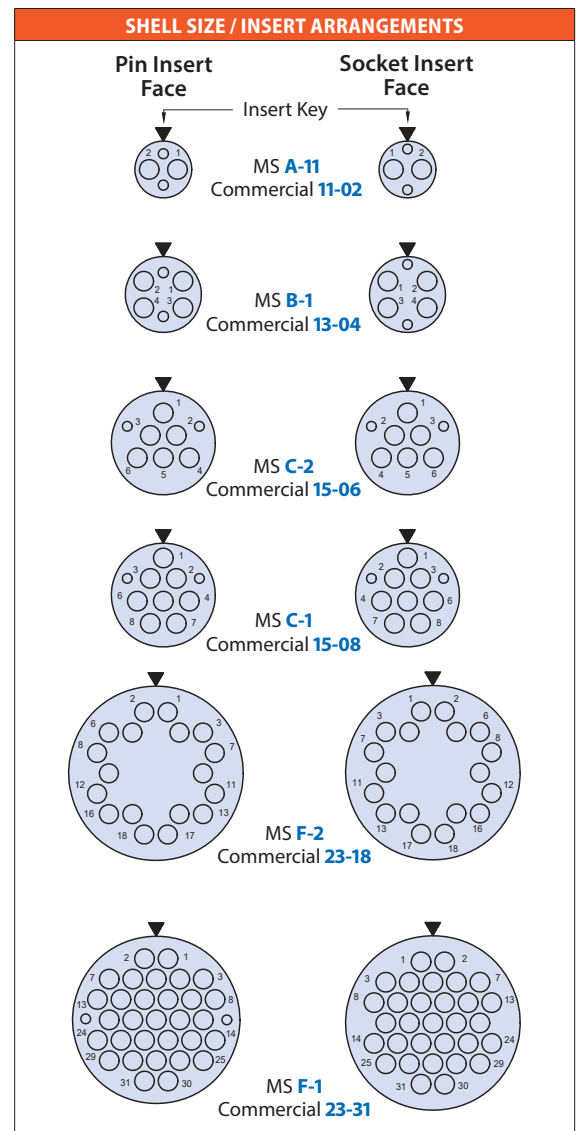
M28876/2 receptacle
with backshell

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