

QPL AND COMMERCIAL MIL-PRF-28876

Fiber optic connection system

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



M28876/11 jam nut receptacle



- Connectors qualified to the complete requirements of mil-prf-28876 including plugs, wall-mount receptacles, jam-nut mount receptacles and in-line receptacles
- Multiple shell sizes and insert arrangements, including 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

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Connector/Backshell Types					
Connector Type	Backshell Type	MIL-Spec	Commercial Connector Type Code		
Wall Mount Receptacle	None	M28876/1	03		
	Straight	M28876/2	13		
	45°	M28876/3	23		
	90°	M28876/4	33		
In-Line Receptacle	Straight	M28876/5	15		
Plug	None	M28876/6	06		
	Straight	M28876/7	16		
	45°	M28876/8	26		
	90°	M28876/9	36		
Jam Nut Receptacle	None	M28876/11	04		
	Straight	M28876/12	14		
	45°	M28876/13	24		
2	90°	M28876/14	34		

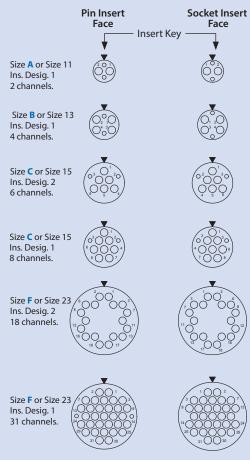
Qualified Fiber Optic Termini					
Туре	Military Part Number	A Dia (Microns)	Typical Fiber Type		
	M29504/14-4131C	126.0	Multi Mode		
Pin Termini	M29504/14-4132C	127.0	Multi Mode		
	M29504/14-4135C	142.0	Multi Mode		
	M29504/15-4171C	126.0	Multi Mode		
Socket Termini	M29504/15-4172C	127.0	Multi Mode		
	M29504/15-4175C	142.0	Multi Mode		
Dummy Terminus	M29504/03-4038				

Crimp sleeve is supplied with terminus assembly and may be ordered separately (see Table II). For terminus less crimp sleeve, omit C from end of part number. Consult factory for additional sizes.

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



Insert Arrangements



Qualified QPL-29504 pin and socket termini

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.			

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