

SYSTIMAX® SOLUTIONS

SYSTIMAX® QPL Military ST® Connectors

SYSTIMAX® QPL Military ST® Connectors are rugged, field mountable connectors for highly durable tactical or commercial single fiber connections of singlemode or multimode fiber. The compact connectors are ideally suited for the harsh environments of aircraft, spacecraft shipboard and land-based applications. The connectors meet or exceed the requirements of military specification MIL-C-83522.

Rugged Hardware in Locking and Non-locking Designs

Systimax SM and MM QPL connectors are available in locking and non-locking designs. In the locking configuration, a locking ring helps prevent accidental optical disconnects, making the connectors less sensitive to cable movement and mechanical shock. The non-locking models have a stiff spring that reduces sensitivity to mechanical shock.

Systimax QPL ST Connectors are made from enhanced stainless steel and Elgiloy alloys to withstand harsh environments. A keyed bayonet cap automatically aligns the ferrule barrel to provide easy engagement. Pre-radiused zirconia ferrules simplify installation and help ensure loss stability and repeatability. Screw-on boots provide simple, reliable, strain relief. Boots are black for MM, blue for SM/MM connectors.

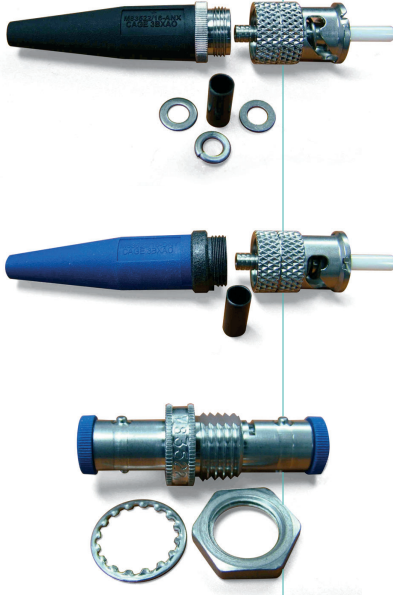
Advanced Materials and Processes

Advanced diamond coated tools and CNC multi-axis machines allow us to fabricate our new patent-pending Non-halogen, lead free, RoHS compliant, 300 series stainless steel connector components more accurately and with greater precision than previous generation metal injection molded (MIM) components. Stainless steel tolerances are held to within +/- 2.5 microns where necessary. The machined connector components are more consistent dimensionally and in density, producing connectors with less variation. Stainless steel components are machined, finished and assembled in the USA.

Halogenated materials decompose at high temperatures and emit toxic corrosive gases. Military applications frequently co-locate personnel and electronics in environments with recirculating ventilation. CommScope recognized the benefit of using halogen free materials and developed our new line of machined QPL connectors using non-halogen, lead free, fungus resistant, RoHS compliant materials. Our new non-halogen connectors are stocked for quick delivery.

CommScope non-halogen, lead free M83522/16 connectors protect your interests while you protect ours.

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Specifications		
	Multimode	Singlemode
Loss	62.5 μm	8.3μm
Mean	0.4 dB	0.35 dB
Standard Deviation	0.2 dB	0.26 dB
Temperature Operating	- 46 °C to + 85 °C	
Storage	- 62 °C to + 85 °C	
Temperature Cycle	0.5 dB max. change - 46°C to + 85 °C DOD -STD-1678 Method 4010	
Optical Decoupling	40 lb. (180 N) min. to cause decoupling (locking version)	
Tensile Loading	0.5 dB max change MIL STD 1344A, Method 2009 51.7 lb (230 N) for 1 minute	
Mating Durability	0.5 dB max. change for 500 cycles, EIA RS-455-21 (FOTP 21)	
Vibration	0.5 dB - 50 μs max signal discontinuity MIL-STD-1344, test cond, III and VI except III at 10 G, method 2005	
Shock	0.5 dB - 50 μs max signal discontinuity MIL -S -901. Grade A Type A Class 1	
Humidity	0.5 dB max change 65 °C at 95 % RH Method 4030 DOD -STD-1678 10 Cycles	
Flex Life	0.5 dB max change - flexed in two planes MIL-STD-1344, Method 2017 1000 cycles each plane	
Twist Life	0.5 dB max change 1000 cycle + / - 90° twist about neutral axis EIA RS-455-36 (FOTP 36)	
Salt Spray	MIL-STD-1344 Condition A Method 1001	
Dust	MIL-STD-202 Method 110	
Thermal Shock	0.5 dB max change MIL-STD-202 Method 107	
Weight	< 20 grams	

Ordering Information			
Material ID	Product	Military Part #	Strain Relief Material
MM QPL Non-Locking ST Connectors			
107629602	P2050A-Z-125	M83522/16-DNX	Fluroelastomer
760034447	P2055B-Z-125	M83522/16-DNX	Non-Halogen Thermoplastic
MM QPL Locking ST Connectors			
107259665	P2052A-Z-125	M83522/16-ANX	Fluroelastomer
760034454	P2054B-Z-125	M83522/16-ANX	Non-Halogen Thermoplastic
SM QPL Non-Locking ST Connectors			
107259673	P3050A-Z-125	M83522/16-DNY	Fluroelastomer
760034462	P3055B-Z-125	M83522/16-DNY	Non-Halogen Thermoplastic
SM QPL Locking ST Connectors			
760034470	P3054B-Z-125	M83522/16-ANY	Non-Halogen Thermoplastic
SM/MM QPL ST Adapter			
760034496	C3051B-2	M83522/17-NY	
Captive Dust Covers			
107397861	Dust Cover	M83522/16-EN	

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SOLUTIONS

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