



Fiber Optic Cable Solutions

Military & Commercial Aerospace



Capabilities

Winchester Electronics' Advanced Optical Fiber group is your source for Fiber Optic Cable Assemblies for the Military and Aerospace market. From Aerospace to Shipboard to Tactical Communications applications, we can assist you in the design of complex military-grade cable assemblies; or submit your drawing and we can produce assemblies with a manufacturing and test process that assures top performance even in the harshest environments.

With a vast array of polishing fixtures, interferometer adapters, test equipment adapters, and over 100 years combined termination expertise, Winchester is ready to help you with your Fiber Optic requirements.

In addition to our Fiber Optic Cable Assembly expertise, Winchester offers its innovative EL Series™ Expanded Beam termini. Active alignment/protected lens technology provides significant advantages over traditional EB systems, including no-clean and excellent return loss – greater than 55 dB. Currently available for D38999 and compatible 29504-style connectors, ARINC404, MIL-DTL-5015, Standard SC connector housing, Winchester's Clements National division MOG and RMT connectors, Mac Panel Receiver/ITA, and others.

Military/Aerospace Approved Vendor

Winchester Electronics is an approved vendor for major military contractors with capabilities to terminate hybrid copper/fiber assemblies, as well as ANY available on-the-market military fiber optic connectors.



	Connector Series	Connector Type	Termini/ Ferrule	Application
Aerospace  Cable options include: MIL-PRF-85045 LITEflight GSC FlightGuide Series	ARINC 404	Hybrid Fiber-Copper	M29504/6, /7	Avionics Equipment
	ARINC 600	Hybrid Fiber-Copper	M29504/6, /7, ELIO ABS-1379, ARINC 801**	Avionics, In-Flight Entertainment (IFE), Onboard Communications/Displays Sensors, RF over Fiber
	ARINC 809***	Multi Channel	ARINC 801	Avionics, In-Flight Entertainment (IFE)
	D38999	Hybrid Fiber-Copper	M29504/4, /5, ELIO ABS-1379, ARINC 801** Winchester EL2	General Purpose Aerospace Applications
	M83522	Simplex	M29504, ST	Electronic Warfare, Tactical Communications Shipboard Electronics
	MC5	Multi Channel	Deutsch 1.25MM	Avionics, In-Flight Entertainment (IFE) Onboard Communications/Displays Sensors, RF over Fiber
	MC6	Multi Channel	MT	Avionics, In-Flight Entertainment (IFE) Data Bus
Shipboard  Cable options include: MIL-PRF-85045, Shipboard LSZH and Pierside	PHD	Multi Channel	M29504/4, /6	Shipboard Electronics
	D38999	Hybrid Fiber-Copper	M29504/4, /5, ELIO ABS-1379, ARINC 801** Winchester EL2	General Purpose Naval Applications
	M83522	Simplex	M29504, ST	Shipboard Electronics
	M28876	Multi Channel	M29504/3, /14, /15	Shipboard Electronics
	M64266	Multi Channel	M29504/18, /19, /20	Shipboard Electronics
	Pierside	Hermaphroditic	M29504/14, /15	Ship-to-Shore Communications
	EZ-Mate	Hermaphroditic	COTS M29504	Ship-to-Shore Communications
Tactical Communications  Cable options include: MIL-PRF-85045 A3159879E (US Army CECOM) Mil Tac	PHD	Multi Channel	M29504/4, /7	Tactical Communications
	D38999	Hybrid Fiber-Copper	M29504/4, /5, ELIO ABS-1379, ARINC 801** Winchester EL2	General Purpose Military Applications
	M83522	Simplex	M29504, ST	Tactical Communications
	Mighty Mouse	Hybrid Fiber-Copper	Series 80	Tactical Communications
	M83526	Hermaphroditic	M29504/16, /17	Tactical Communications
	TFOCA	Hermaphroditic	M29504/16, /17	Tactical Communications
	TFOCA II	Hermaphroditic	MTFP, M29504/16, /17	Tactical Communications
	HMA	Hermaphroditic	HMA	Tactical Communications
PRO BEAM/ TAC BEAM	Expanded Beam	PRO BEAM	Tactical Communications	
Test Assemblies	M83522/ST	Simplex	M29504, ST ARINC 801	Measurement Quality Jumpers (MQJ) NavSea Spec 6877804

*Also known as EPX, EN4644, BACC65, Galley Connector | **Also known as LuxCis, BACC64 | ***Also known as Deutsch DMC Amphenol SIM and EN4165



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