Amphenol Alden

MEDI LIGHT SERIES

connectors and cable assemblies

MEDI\LIGHT FEATURES

Designed specifically for patient monitoring and endoscopy vision system applications, our medillight series offers an ergonomic and cost effective package integrating electrical and optical interconnects into a single assembly

Overview (intuitive, compact, efficient)

- Pulse-Lok® auto-latching mechanism for assured connections
- Available with ceramic LC- or MT-termini for precise F/O alignment Customize your cable bundle
- · Ergonomic size fits comfortably in the hands of the user
- · Multiple keying options available

Order as a full cable assembly

- (Consult Factory) · Single or double ended
- Overmolded strain relief

Material

Connector Housing: Polyamide Molded Core Insulator: LCP

Electrical Contacts: Brass/Phosphor Bronze

• Termination: Solder-cup

• Plating: 30µ" Gold over 50µ" Nickel Flammability Rating

- Housing/Coupler Assembly: 94HB
- Molded Contact Insulator (core): UL94 V-0

Mechanical

Mating Cycles: 500 min.* Mating Force:

- Mate: 7.5lbs. Max
- Un-mate: 1.6 lbs. Max
- Unintended extraction: 30 lbs. Min.
- Backshell Withdrawal: 5.0lbs.

Min.***

- · Add components to fulfill requirements

SPECIFICATIONS

Environmental

- Operating Temp: -20C to +85C**
- Dust Resistance: to IP-50 (mated)
- Sterilizable: gamma & EtO**
- · Chem. Resistance: common OR cleaning solvents

* ML900 only **Dependent on overmold material

***Backshell sold separately

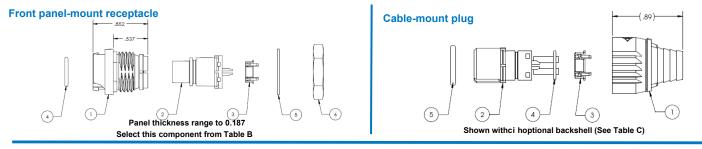
STANDARD CONTACT CONFIGURATIONS & SPECIFICATIONS TABLE A:

Series	Contact Type Pin φ	Wire	Operating	Loss performance
ML700	2x 1.25mm LC-termini 4x 0.5mm electrical	0.9mm buffer, nominal 26 AWG, max.		IL - 0.75 dB <50 mΩ resistance
ML900	1x E-beam MT 6x 0.7mm electrical	0.125mm cladding, nominal 22 AWG, max.	PC / APC / E-beam polish; 850 / 1300 / 1510 nm 300 V RMS @ 3A (max.¹)	IL - 0.5 dB² <50 mΩ resistance

1 30C Heat Rise Limit 2 Post-cleaning

STANDARD HOUSING OPTIONS

ML700 CONNECTOR KITS

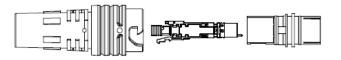


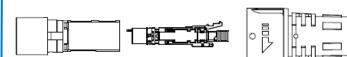
Note: Th¦^a#^å/@{`•3 * Anay be panel-mounted or mounted within a hand piece or electronic accessory

ML900 CABLE ASSEMBLIES

Plug cable assembly

Front panel-mount receptacle assembly





*All dimensions shown in inches (unless otherwise noted)

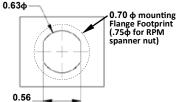
MEDI LIGHT SERIES Hybrid fiber optic & electrical connectors and cable assemblies

TABLE B:

STANDARD PART NUMBERS

ML700SM-N	Plug Connector Kit Cable-mount		Receptacle Connector Kit Front Panel-Mount (FPM)	
Color	Black	Grey	Black	Grey
Key 1	305910	305911	305940	305941
Key 2	305912	305913	305942	305943

Panel-Mount, Cut-Out Template



Applies to Disposable Receptacle



Housing Color Options Mating Key Options Panel-Mount Thickness

Black (std.), Gray, White, Blue, Red, Green, Yellow 2 Standard Keys, Proprietary Keys Available Up to 0.187" (standard)

ML900 Options Include: Housing Color Options **Distal Termini Options** Panel-Mount Thickness

Black (std.), Gray, White, Blue, Red, Green, Yellow Simplex LC-termini (std.), COTS simplex, duplex, MT termini optional Up to 0.187" (standard)

Let us streamline your assembly process by providing fully assembled, and tested, Medi|Light cable assemblies

ML700SM-N FPM Receptacle	ML700SM-N Backshell	TABLE C:		ACCESSORIES			
Dust Cover	ML/005M-N Backshell	Dimension A	Par	rt #			
		(Inches)	(Black)	(Gray)			
		0.053	300350	300351			
	A	0.064	300352	300353			
		0.075	300354	300355			
		0.086	300356	300357			
P/N 300390		0.096	300358	300359			
	1.10	0.104	300360	300361			
	· · ·	0.120	300362	300363			
ML700SM-N Plug Soaking Cap		0.129	300364	300365			
	The PL-700 plug housing is designed to accept	0.142	300366	300367			
	Amphenol Alden's one piece, Press & Seal PVC	0.153	300368	300369			
	Backshell. This unique backshell simply snaps into place providing an IP-67 rated seal to the plug	0.162	300370	300371			
	housing and cable exit without hardware resulting in	0.170	300372	300373			
-	clean overmolded look. For optimum sealing we	0.186	300374	300375			
P/N 300391	suggest selecting a wire exit i.d. that is at least .005"	.204	300376	300377			
1 // 300331	smaller than your nominal cable diameter .	0.215	300378	300379			
		0.225	300380	300381			
		0.235	300382	300383			
		0.249	300384	300385			
		0.264	300386	300387			
Note: Black (std.) Gray (optional) & accessories	0.300	300388	300389				
Receptacle Instructions: Cable Mount Plug Instructions ASSEMBLY INSTRUCTIONS							

AI-ML700SMN-PMR05

AI-ML700SMN-P05

sories sold separate

Note: recommended tooling included in assembly instructions

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