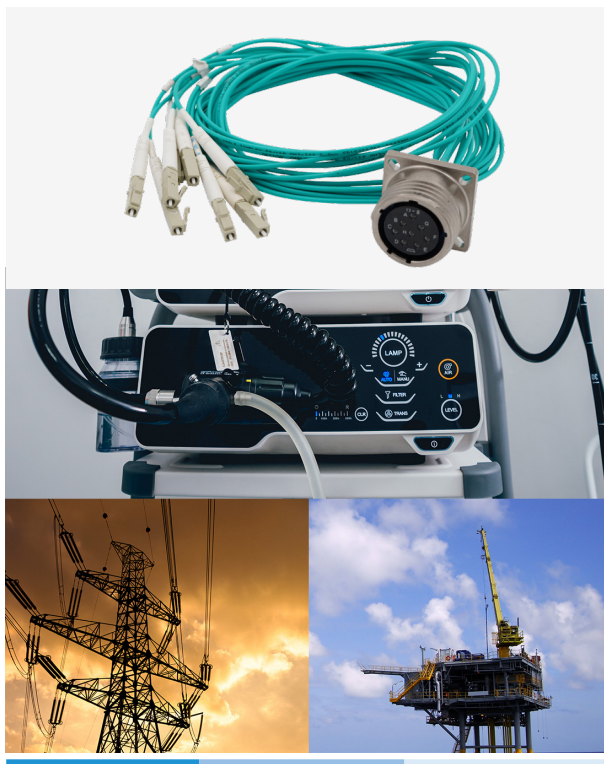


# Amphenol®



## Amphe-Lite Fiber Optic Termini

Amphenol Industrial Operations introduces fiber optic terminus to work with Amphe-lite size 16 cavity. These terminus are designed for transmitting optical laser with high speed, high reliability, EMI/RFI immune, digital data in harsh environment and cases require high reliability. This contact system provide low loss high reliability connection for mission critical applications. Applications including fiber optic sensor instrument, medical endoscopy, fiber detection & alarm system and fiber optic Laser equipment.

The contacts are designed for variable sizes cables, we have 2 options for  $\Phi 1.60\text{mm}$  and  $\Phi 2.00\text{mm}$  cables and we can customize for other cable size.

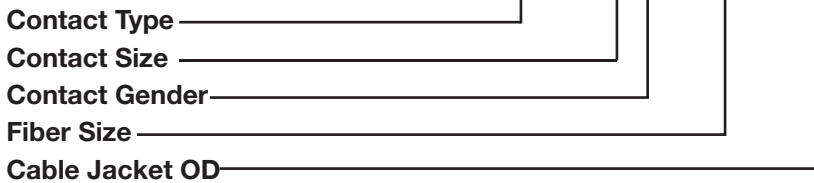
### Features:

- Drop in design for #16 cavity of Amphe-Lite
- Design and manufactured refer to MIL-PRF-29504/4&5
- Spring-loaded socket contacts ensure consistent mating
- Ceramic alignment sleeve insures accurate fiber to fiber alignment
- Socket has threaded protective shroud, manufactured from rugged plastics
- Maintains fiber optic/electrical hybrid capabilities

Technical Data	
<b>Fiber Types</b>	Multimode: 50/125, 62.5/125, 100/140, 200/230 Cable size: 1.6mm, 2.0mm
<b>Optical Performance</b>	Insertion Loss: 0.75dB typical Return Loss: -20dB typical
<b>Materials</b>	Ferrule: Ceramic Alignment Sleeve: Ceramic Protective shroud: Composite Spring: Alloy Steel
<b>Environmental / Mechanical</b>	Temperature Range: -55°C to +125°C Durability: 500 mating cycles Vibration: 20G, 20 to 2000Hz

### How to Order

ALFC - 16 P - XXX - 200



**Contact Type**  
ALFC----Amphe-Lite Fiber Optic Contact  
MIL-PRF-29504 Style

**Contact Size**  
16-----Size 16  
See table 1 for available size

**Contact Gender**  
P-----Pin  
S-----Socket

**Fiber Size**  
See suffix -XXX in table below for fiber size designations

**Cable Jacket OD**  
200-----1.60-2.00mm (Omit)  
250-----2.00-2.50mm (Coming soon)

**Table 1, Fiber Size**

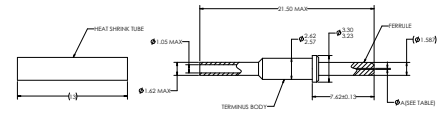
Suffix XXX	Fiber Size† Core/Cladding Dia (Microns)	A Dia Ref		Available Contact Size	Mode
		Inch	Micron		
127	50/125	.0050	127	Size 16	Multi-Mode
	62.5/125				
145	100/140	.0057	145		
236	200/230	.0093	236		

† Additional sizes available upon request: consult Amphenol Industrial Operations for availability.  
\*Refer to Amphe-Lite catalog for available D38999 shell size and insert patterns.

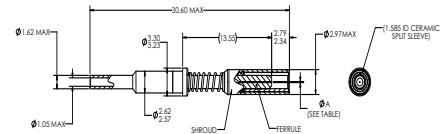
### Amphe-Lite Fiber Optic Termini



#### Mechanical specification of size16



#### Size 16 Pin



#### Size 16 Socket

#### Notes:

- Indicated dimension when fully assembled
- Alignment sleeves shipped unassembled
- All dimensions for reference only

### Termination tool kit

Part Number	Description
TOOL-766758-001	Termination tool, w/curing oven
TOOL-766758-000	Termination tool, w/o curing oven



For further information on your individual application requirements, contact: Amphenol Corporation

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