

# TACLIGHT™ Hermaphroditic Fiber Optic Connector



TACLIGHT PLUG

The TACLIGHT™ hermaphroditic fiber optic connector family provides rugged, reliable performance in harsh environments where high cycle mating is of concern. Yet, its design allows for easy field maintenance, and its flexibility allows the plugs to function as both plug and receptacle. These connectors provide a robust connectivity solution resistant to corrosion, shock and thermal shock environments. Some of the applications currently employing STRAN's Hermaphroditic connector family include:

- Outdoor fiber optic connectors
- Deployable military tactical systems
- Emergency restoration systems
- Ship to shore communications
- Outside Broadcast
- Homeland security and surveillance

Fully compatible with legacy product, some of the key features of this connector family include:

- Standard hermaphroditic, or genderless, configurations include: 4, 8 and 12 channel
- Field maintainable design allows for cable cleaning re-works, re-polishing, and re-terminating
- Multiple plating options: Black Anodize, Black Anodize Matte, Cadmium, and Passivated Stainless Type 303
- Both singlemode and multimode fibers are compatible in the same connector without part sub-component substitution
- Captured split alignment sleeves for enhanced insertion loss performance
- PC polish
- Hermaphroditic and standard dust caps
- Assemblies available on custom reels



TACLIGHT RECEPTACLE

MILITARY TACTICAL

MILITARY SHIPBOARD

ENERGY

MINING

AEROSPACE

COMMERCIAL

# TACLight™ Hermaphroditic Fiber Optic Connector



MILITARY TACTICAL

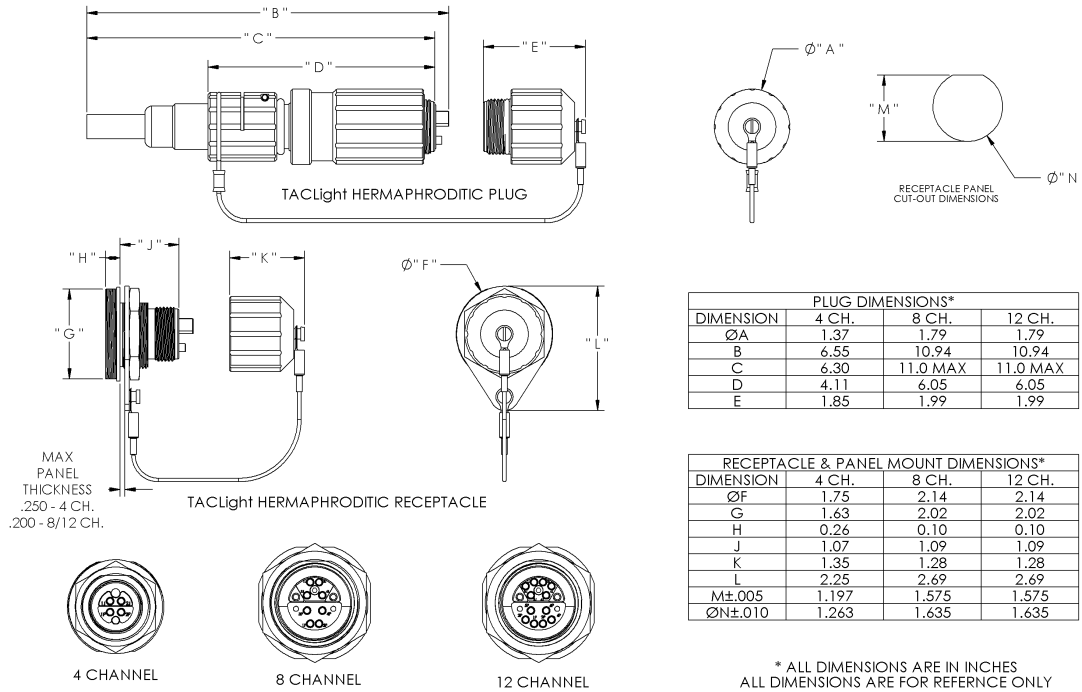
MILITARY SHIPBOARD

ENERGY

MINING

AEROSPACE

COMMERCIAL



## Connector Performance Criteria:

Optical Insertion Loss	9/125: 0.75 dBmax , 0.35 dBtyp 62.5/125: 0.75 dBmax , 0.14 dBtyp
Mating Durability	1000 cycles per EIA-455-21
Corrosion Resistance	EIA-455-16, salt spray, test condition C
Temperature Life	Per EIA-RS-455-4
Thermal Shock	-54°C to +85°C per EIA-455-3, Test Cond. 3
Humidity	Per EIA-455-5, Type 2
Temperature Life	85°C for 250 hours per EIA 455-4
Vibration	Per MIL-STD-1344, Method 2005
Cable Retention	> 400Lbs per EIA 455-6
Fluid Immersion	Per EIA-455-12
Impact	EIA-455-2, method C, severe
Crush	225 lbs per EIA-455-26
Cable Seal Flexing	Per MIL-STD-1344, Method 2017
Return Loss	>30 dB MMF, >40 dB SMF with PC polish