

CORNING

TACLight™ Hermaphroditic Fiber Optic Connector



The Corning's 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 Corning'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 products

Features and Benefits

Standard hermaphroditic, or genderless, configurations include: 4, 8 and 12 channels

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

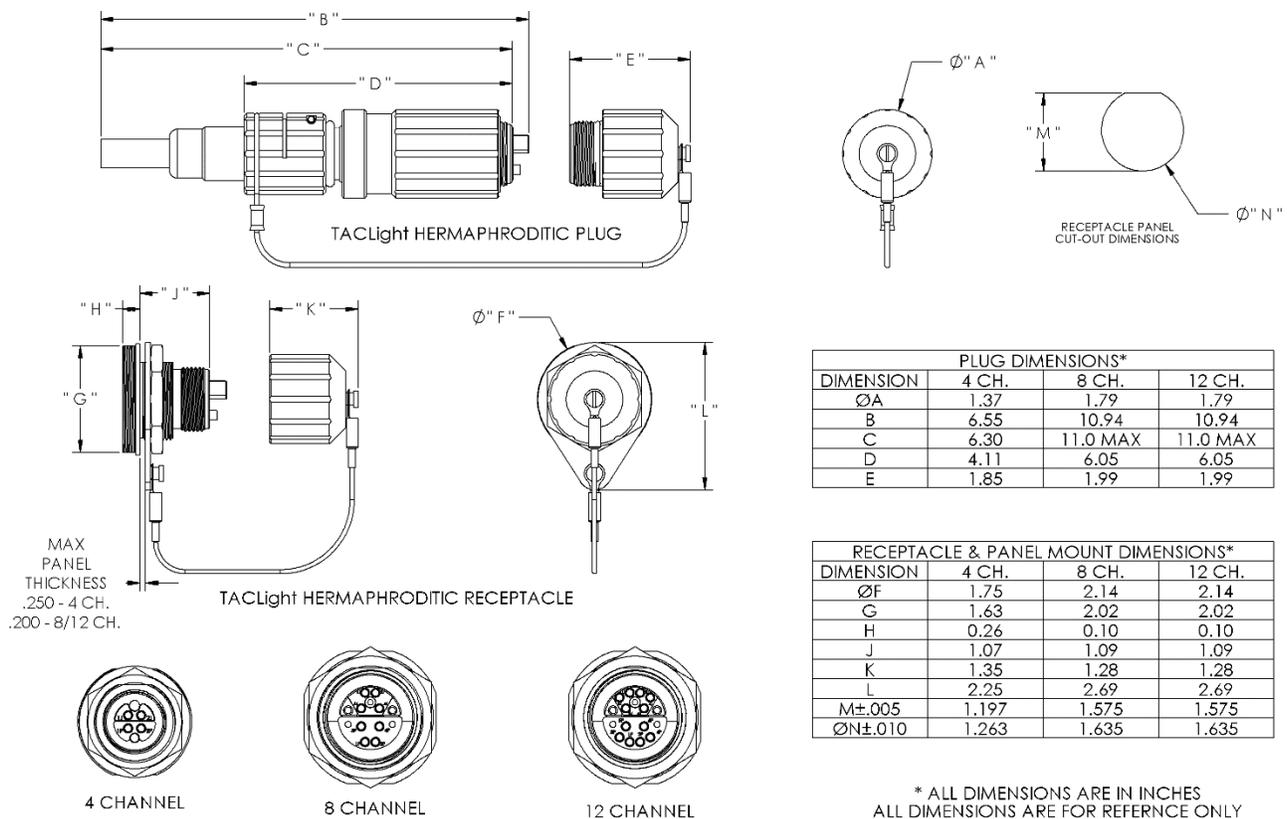
Both single-mode and multimode fibers are compatible in the same connector without part sub-component substitution

Captured split alignment sleeves for enhanced insertion loss performance

PC polish

Assemblies available on custom reels

TACLight Plug and Receptacle Dimensions



Technical and Performance Characteristics

Optical Insertion Loss	Single-mode 9/125: 0.75 dBmax, 0.35 dBtyp Multimode 50, 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

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