InfiniBeam®
Expanded Beam Fiber Optic Connector

INFINIBEAM® PLUG

STRAN InfiniBeam® expanded beam connectors provide the ultimate in reliable performance in harsh environments where water, mud, dust and fluid exposure are a concern. Utilizing expanded beam technology, the design and packaging of these connectors provide a robust connectivity solution resistant to corrosion, mechanical and thermal shock while inherinently providing easy field cleaning. Available in a variety of configurations, number of channels and sizes, some of the applications suitable for STRAN's expanded beam technology include:

- Oil and Gas surface applications
- Deployable military tactical systems
- Video/data transmission
- Homeland security and surveillance
- Outside Broadcast
- Underground and surface mining operations

Some of the key features of this connector:

- Expanded beam inserts that expand the signal 200x reducing the effect of dust, dirt and other contaminants on the optical path
- Multiple plating options: Hard Anodize (Clear, Drak Green or Bronze) and Molded Rubber Grip on plug connector
- 4 & 12 channel options for plug and receptacle
- Easy field cleaning without tools
- Hermaphroditic interface
- Custom deployment reels for plug to plug assemblies
- Available for all fiber types and sizes
- ISO9001-2000 since '03 and AS9100B since '05

INFINIBEAM® CONNECTORS

MILITARY TACTICAL
MILITARY SHIPBOARD
ENERGY
MINING
AEROSPACE
COMMERCIAL

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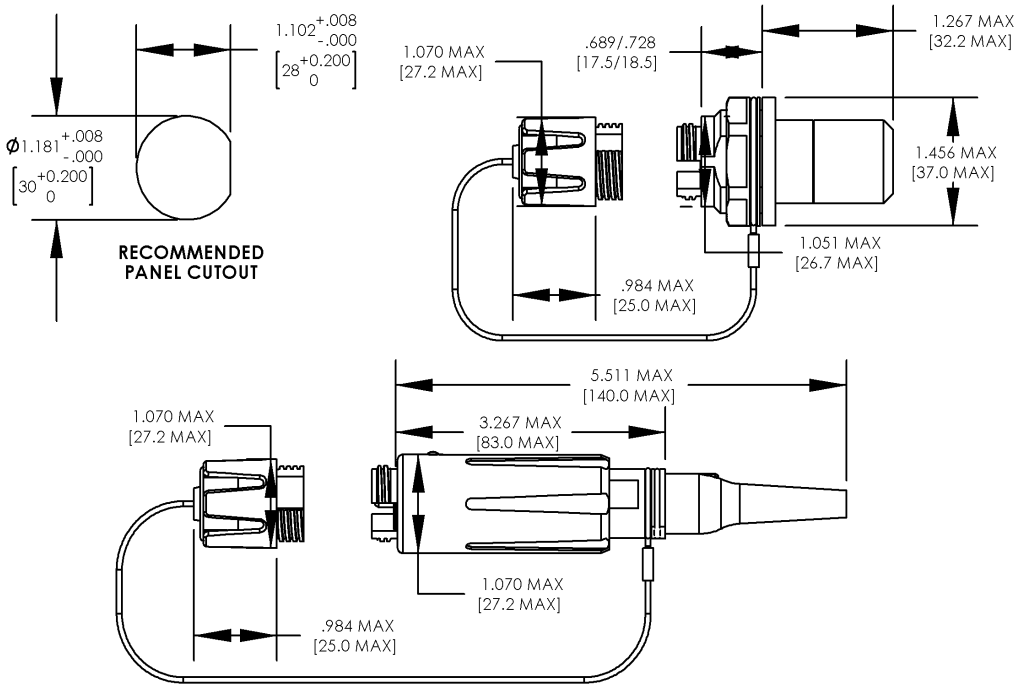

Connector Performance Criteria:	
Optical Insertion Loss	62.5/125 µm: 1.5 dB_{max}, 1.0 dB_{typ} @850nm and 1300nm
Mating Durability	3000 cycles per EIA-455-21
Corrossion Resistance	EIA-455-16, salt spray, test condition C
Temperature/Humidity	-10° C to +65° C, 10 cycles per EIA-455-5 method B
Physical Shock	EIA-455-14 condition C
Temperature Cycle	-46°C to +71°C, 5 cycles
Temperature Life	85°C for 250 hours per EIA 455-4
Vibration	EIA-455-11 condition III at 10g, condition VI C for 1.5hrs
Cable Retention	> 400Lbs per EIA 455-6
Temperature	-46°C to +85°C operating -52°C to +85°C storage
Impact	EIA-455-2, method C, severe
Crush	EIA-455-26, 6.7kN (1,506lbf)
Thermal Shock	EIA-455-71, schedule C, 10 cycles, 85°C to -57°C