

STRAN Technologies Capabilities Military Tactical Market



Military Truck

STRAN Technologies is dedicated to supporting the Military Land Tactical needs of today's highly advanced communications systems used by our armed forces deployed throughout the world. STRAN has been at the forefront of interconnect design starting with the first tactical connector to the new modern generation of connectors, the TFOCA GenX, which is currently being integrated in all the new communication systems used in tactical environments. STRAN Technologies is approved as a supplier to most of the major systems integrators as well as directly to the military, its subsidiaries and contractors.

Military Tactical Products:

- TFOCA GenX (MIL-PRF-83526/16 & /17) Multimode and Singlemode connectors and cable assemblies
- TFOCA I (Qualified to A3102608) connectors and cable assemblies
- InfiniBeam™ (MIL-PRF-83526/20 & /21) Expanded beam connectors and cable assemblies
- Flexible Splice Enclosures for Emergency Restoration

STRAN Technologies' operations strive daily to design and deliver the data transfer industry's most technically competent connectors and cable assemblies for use in the harshest environments where failure and down time is simply not an option. Our customers require reliability above all else to ensure no loss of data or compromises in safety. Some of the applications currently employing STRAN's Military Tactical products include:

- Deployable military tactical systems
- Outdoor fiber optic networks
- Emergency restoration systems
- Video / data transmission
- Homeland security and surveillance

Key features of the connectors & cable assemblies:

- Standard hermaphroditic, or genderless interface
- Field maintainable connectors and cable assemblies
- Custom deployment reels for plug to plug cable assemblies



TFOCA I Plug

MILITARY TACTICAL

MILITARY SHIPBOARD

ENERGY

MINING

AEROSPACE

COMMERCIAL

STRAN Technologies Capabilities Military Tactical Market



MILITARY/TACTICAL

MILITARY SHIPBOARD

ENERGY

MINING

AEROSPACE

COMMERCIAL



InfiniBeam™ Plug
and Receptacles



Self-Supporting
Reels

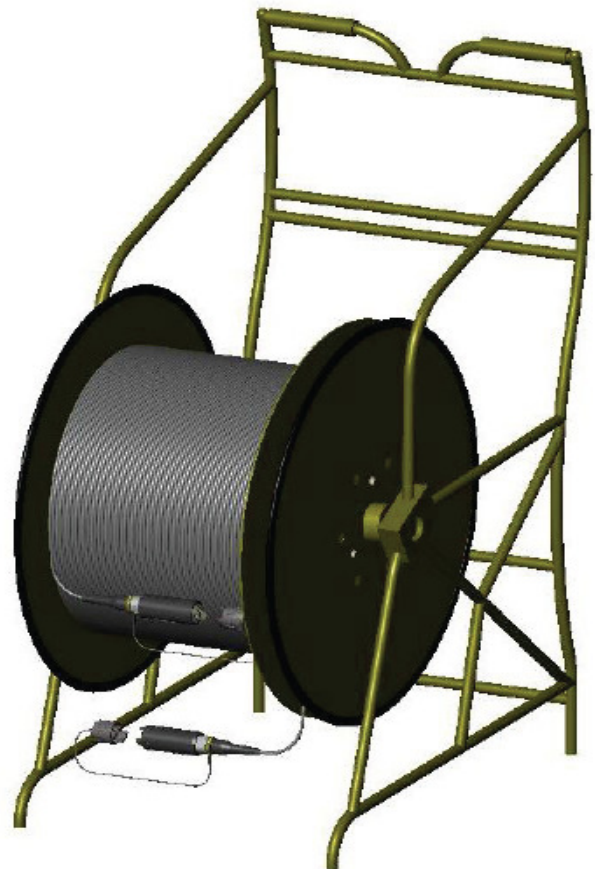
Self-Supporting Reel

For semi-permanent installation and/or cable assemblies requiring vehicular deployment, STRAN offers a number of ruggedized Self-Supporting Reel solutions in a variety of base materials and finishes including:

- Steel, Aluminum, Stainless Steel
- CARC, Powder Coat, Anodized
- Black, Green, Tan and natural (SS)

Backpack with Reel

- Backpack frame anodized aluminum green, equipped with brake and handcrank
- Removable triple flange reel with retractable axel for ease of storage
- Storage space for connectors between 2nd and 3rd flange
- Weight of backpack: 6.1kg
- Weight of reel (NATO-380): 4.1kg
- Includes accessory pouch and padded shoulder and waist straps; and protective covers for cable and stowed connectors



InfiniBeam™ Plug to Plug
on backpack cable reel

STRAN Technologies Capabilities Military Tactical Market

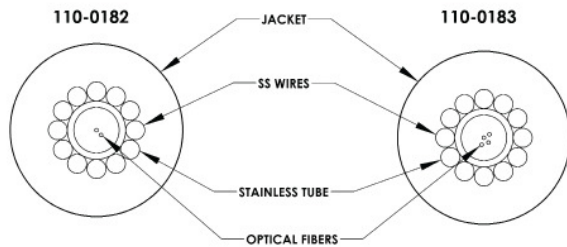


Flexible Splice Enclosure

Flexible Splice Enclosure

For emergency restoration of tactical cable in the field, the reusable Flexible Splice Enclosure accommodates up to 8 fiber splices. Its design and construction restores a cable's full tensile strength yet is still flexible enough to coil around a field deployable reel.

- Minimum Bend Radius: 60mm
- Corrosion Resistant: 500 hr Salt Spray
- Operating Temperature: -54°C to +85°C
- Water Tight: 10m water 24hrs



DNS-0924 1.32/1.07mm 316SS TUBE, GEL, TWO 50µm MM FRPE JACKET TO 3.8mm

DNS-1634 1.32/1.07mm 316SS TUBE, GEL, FOUR 62.5µm MM NYLON JACKET TO 3.8mm

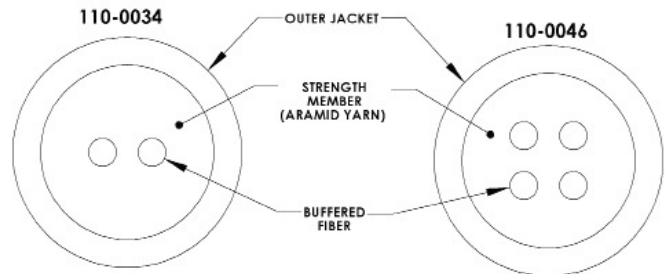
PROPERTIES	METRIC	ENGLISH
WEIGHT	24 kg/km	16 lb/kft
BREAKING STRENGTH	316 kg	710 lbf
MAXIMUM TENSILE LOAD (SHORT)	153 kg	337 lbf
MAXIMUM TENSILE LOAD (LONG)	112 kg	246 lbf

NOTE: ASSUMES FIBER TENSION OF 0.2% FOR THE LONG MAXIMUM TENSILE LOAD RATINGS

RECOMMENDED BEND RADIUS AT LOAD	13.2cm	5.2 in
---------------------------------	--------	--------

ATTENUATION	
@850nm	3.00 dB/km
@1300nm (DNS-0924)	0.80 dB/km
@1300nm (DNS-1634)	1.00 dB/km

Tactical FIST Cable



S621T-02R-50H
2 FIBER TACTICAL
FIBER OPTIC CABLE
50µm

S693T-04-62X
4 FIBER TACTICAL
FIBER OPTIC CABLE
62.5µm

OPTICAL FIBER (#1-#2-#3-#4)	FIBER TYPE CORE DIAMETER CLADDING DIAMETER COATING DIAMETER ATTENUATION	: GRADED INDEX, MULTIMODE : 50(62.5)µm ±2.5µm : 125µm ±1µm : 500µm ±15µm* : 53.50 dB/Km @850nm : 51.50 dB/Km @1300nm
OUTER JACKET	BLACK FLAME RETARDANT POLYURETHANE O.D.: 5.85 mm (0.230") NOMINAL	
MECHANICAL PROPERTIES	MAXIMUM INSTALLATION TENSION MAXIMUM OPERATION TENSION	: 1780 N (400 lb) : 300 N (67 lb)

Tactical Non-Metallic Cable

Tactical Fiber Cable

Depending on the application, STRAN offers a variety of multi and singlemode tactical fiber optic cable solutions. For installations requiring rodent resistance, Tactical FIST (Fiber in Steel Tube) offers a small cross-sectional profile that resists rodent attack. For applications requiring 'low lay' or are not amenable to cable tensioning required of Tactical FIST, we offer Non-metallic Tactical cable featuring Aramid yarn reinforcement similar to that used in bullet proof vests. Both cable types terminate equally well with our connectors and selection of strain relief/cable termination accessories. For applications requiring both optical signal as well as electrical power, we offer a variety of hybrid electrical/optical cable and connector solutions. Contact STRAN Applications Engineering at the number below to help guide you through our product specifier process.

STRAN Technologies Capabilities Military Tactical Market



MILITARY/TACTICAL

MILITARY SHIPBOARD

ENERGY

MINING

AEROSPACE

COMMERCIAL



Fiber Optic Termination Kit

Field Termination/Maintenance Kits

STRAN field termination kits have been developed to support troubleshooting, testing, maintenance and field repair of STRAN's fiber optic connector and cable assembly solutions. The field termination kit has been specifically developed to include tools and consumables for the: TFOCA I, TFOCA GenX, MFOCA, M83522 Mil-ST, Taclight, M28876, as well as, COTS connectors ST, FC, SC, and LC. The kits have upgrade options that include: fiber optic probe microscopes and field polishing machines. Custom kits are also available for users requiring only the specialized tools to support a specific set of fiber optic connectors or operations. The kits can also be configured to include optical test equipment allowing our customers to test repaired cables and connectors. Procedures and training associated with any of the operations for which these kits are designed, are also available. Note: Export of kits, may be subject to the International Traffic in Arms Regulations or the Export Administration Regulations

Field Master Polisher

STRAN Technologies FM1000 series fiber connector polishers are unique field or lab polishing machines. The Field Master is equipped with a high-torque DC motor that can operate between 6-12 V DC. A car cigarette lighter outlet is a very handy power source regardless of where in the world your field service support takes you.

The Field Master allows adjustable force through a micrometer to ensure consistent dome finish for a wide variety of connector types and the number of connectors in the fixture. Users can polish one, or two, connectors/ferrules in one polish run. Owning a polisher like these is a significant step forward for technicians/installers used to polishing connectors by hand with a polishing puck.



Field Master FM 1000
Fiber Optic Polisher