

## Commercial Fiber Optic Mechanical Splicing Kit

### Light Crimp Splice

Part Number: 1985368-1

#### Product Facts

- Terminates 250 micron coated, 900 micron tight-buffered fibers and 2.0 mm jacketed cable
- Attenuation (typical): ≤0.1dB
- Return Loss (at ambient; 18° to 28° C): ≥20 dB multimode  
≥35 dB single-mode
- Operating Temperature: -25° to 70° C
- Storage Temperature: -40° to 85° C
- Tensile retention:  
250 micron coated: 2.0 N  
900 micron buffered: 3.0 N  
Jacketed: 50.0 N



Part Number: 1516626-1

The KITCO 0831-8238 Kit Provides a low cost, highly reliable, solution for the repair of Tactical Fiber Optic Cables featuring the TE Connectivity Mechanical Splice. The Kit contains all of the tools and materials required to make (3) three four channel cable repairs, including the JPS-400 Splice Protection Sleeve. An Ideal solution in a tactical environment when system reliability is essential, not an option!

### The TFOCA Military/ Commercial Fiber Optic Mechanical Splicing Kit contains the following items:

- 2 JPS-400 Splice Protection Sleeves
- 12 Mechanical Splices
- Light Crimp Splice
- Precision Cleaver
- Crimp Tool with Crimp Die
- Splice Holder with Strip Template
- Cleaning Materials
- Tool Roll with all Required Tools
- Support for LC/SC Light Crimp Connectors
- Lightweight, rugged Case



Part Number: 1516516-1

### JPS Splice Enclosure

Part Number: 1516516-1

The JPS 400 Splice Enclosure is designed to protect TFOCA cable that has been repaired with any mechanical splice or fusion splicer. Designed & evaluated by the United States Marine Corps, this product works in all field applications, even in severe or harsh battlefield environments. Simple to install and easy to re-enter, yet flexible enough to conform to the diameter of a reel

when re-wound. The JPS 400 is ideal for both TFOCA AND TFOCA Second Generation applications.

There are two high-grade brass retention assemblies that use both the jacket and the Aramid yarn found in TFOCA cable to provide strain relief & secure the fiber inside the waterproof housing. A waterproof compression gasket prevents water and other contaminants from entering the housing.

### JPS 400 Mechanical Properties & Performance Specifications:

- High-grade formulated polyamide conduit & threaded adapters
- Self-extinguishing, low smoke, halogen & cadmium free
- Temperature Range: -50C to +105C continuous, 150C short term
- Chemical resistance to fuels, mineral oils, fats, and alkalies
- Specifically designed for external application in traction industry
- Size: 15" x .630" (ID) x .932" (OD)
- Re-enterable & Re-usable
- Conforms to TFOCA reel sizes
- Cable Size Range: .196"-.394"
- Pull Strength (Load Test): 250 lbs
- Waterproof

Ser Number	RFP Specification	Compliance to RFP specification YES/NO	In case of non-compliance deviation from RFP to be specified in unambiguous terms
(a)	Splicing Capability	For up to 1-4 splices SM & MM	Y
(b)	Water Proofing Standard	IP64 class for the hard cover case	Y
(c)	Tube Protection class	Better then IP67 (24 h @ 5000 mm)	IP68
(d)	Time taken to repair a cable	Fast & reliable cable repair within 10 min - 30 min (1F , 4F)	Y
(e)	Maximum Attenuation for Mechanical splices	Typical value < 0.2 db @ 1300 nm	Y
(f)	Should be able to splice Armored/ Ruggedized cable (as offered by the vender)	Yes	Y
(g)	Reusable components	100% reusable components (except mechanical splice protector)	Y
(h)	Temperature range	Operating Temp: -10°C - 50°C Non-Operating Temp: -40°C 71°C	
(j)	Weight	< 4.2 kg	Do not have kit. TE has kit in India.
(k)	Dimensions (max)	410x33x202mm	Do not have kit. TE has kit in India.
(l)	Tensile load of cable after repair	No Change	250 lbs