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Build Specifications for Tactical Pre-Terminated Fiber Optic Assemblies - Custom Made in USA by QuickTreX®

- All multi-strand fiber assemblies will be constructed using a breakout made with 2mil Polyurethane (PUR with Kevlar) buffer furcation tubing and sequential numbers for each leg. The buffer tubes will be securely fastened to the outer jacket using tactical epoxy breakout kit.
- The standard breakout will be an even 36" for all strand counts.
- The mesh protective sleeve is made of abrasion and UV resistant Tech Flex. Twice the length of material needed is used and fold it back on itself to double the amount of material thickness. The folded edge becomes the leading edge and the other end is secured to the cable jacket behind the epoxy breakout with high quality adhesive.
- Epoxy filled transitions are constructed from a high temp skeletal frame and mil-spec covering with an assembled durometer hardness Shore D 90.
- One wrap around label is to be attached to each end of the cable assembly for identification. The label text includes the cable part#, and a unique serialized number.

TESTING

All fiber ends are visually inspected with a fiberscope of 400 power or better for surface defects including, cracking, pitting, and scratches, on the glass surface of the connector. All ends are tested utilizing a Loss Test Set to the following standards:

Multimode OM3: IL Max 0.3db, Min -.01db..
SM: IL – Max 0.3dB Min - .01dB - ORL (optical return loss) - 55dB

* All test results will be included on the QuickTreX sticker found on the inside of the Schill Reel or included with the assembly if not on reel.

FIBER COUNT	NOMINAL DIA.		NOMINAL WT.		MAXIMUM TENSILE LOAD LBS (N)		MINIMUM BEND RADIUS INCHES (CM)	
	INCHES	(MM)	LBS/1000FT	(KG/KM)	INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
2	0.22	(5.5)	16.2	(25)	400 (1780)	130 (578)	2.2 (5.5)	1.1 (2.8)
4	0.22	(5.5)	16.2	(25)	400 (1780)	130 (578)	2.2 (5.5)	1.1 (2.8)
6	0.24	(6.1)	22.2	(33)	400 (1780)	130 (578)	3.6 (9.2)	2.4 (6.1)
8	0.25	(6.4)	28.8	(44)	470 (2090)	160 (712)	2.5 (6.4)	1.3 (3.2)
12	0.25	(6.4)	30.8	(47)	470 (2090)	160 (712)	2.5 (6.4)	1.3 (3.2)
24	0.33	(8.5)	38.7	(59)	670 (2980)	220 (979)	3.3 (8.5)	1.7 (4.3)

CHARACTERISTIC	TEST PROCEDURE	PERFORMANCE
Tensile and elongation	EIA/TIA-455-33	
Operating tensile strength	EIA/TIA-455-33	
Low-temp flexibility	EIA/TIA-455-37	
Cyclic flexing	EIA/TIA-455-104	2000
Crush resistance	EIA/TIA-455-41	1800 N/cm or greater
Impact	EIA/TIA-455-25	200
Temperature cycling	EIA/TIA-455-3	-46°C to 85°C
Temperature/humidity cycling	EIA/TIA-455-5 Method B	
Life aging	EIA/TIA-455-4	
Freezing water immersion	EIA/TIA-455-98	

TEMPERATURE RANGE	
INSTALLATION	-46°C to +85°C
OPERATING	-46°C to +85°C
STORAGE	-55°C to +85°C

- High impact and crush resistant - it can withstand a heavy vehicle and high foot traffic
- Polyurethane outer jacket
- Factory terminations and polishing are superior to virtually all field terminations - comes standard with UPC polish
- Quality made in the USA by Skilled Technicians
- Fibers are color coded and protected using a 2 mm buffer furcation tube
- Tactical Epoxy Breakout Kit included in every assembly
- One metal pull hook included with the assembly for fast deployment in the field (a second pull hook can be added upon request for an additional fee)
- Protective mesh basket included on both ends
- Tested to meet MIL-PRF-85045
- Connectors are commercial grade and water resistant
- Performance in wide temperature range