Features and Benefits

- 245/900 µm or 500/900 µm
- Hytrel* buffer
- Can survive repeated abuse, tangling, knots in retrieval
- Extremely lightweight
- Can survive being frozen in ice
- Good performance at temperature extremes
- Heavy Duty Double Jacket also available

Applications

- Field communications
- Rapid deployment and recovery over rugged terrain
- Designed to be run over by heavy vehicles
- Electronic News Gathering (ENG) applications

Tactical Cables

NLC northern lights cable a prestolite wire company

Although standard multimode optical fiber is specified, special large core or radiation resistant optical fiber can be provided in these cables. Applications requiring sensor fiber or specialized reinforced tight buffers can also be incorporated into the standard designs.

SPECIFICATIONS

Crush Resistance	EIA-FOTP-41A	2200 N/cm
Impact Resistance	EIA-FOTP-25B	500 impacts
Flexing	EIA-FOTP-104A	10,000 cycles
Cable Knot Test	EIA-FOTP-87B	Passed @ -40ºC
Cable Twist Test	EIA-FOTP-85A	1000 cycles
Fluid Immersion Test	EIA-FOTP-12A	JP-2 Fuel
Maximum Pulling Load	EIA-FOTP-33A	
	2 Fiber	1800 N
	4 Fiber	1600 N
Maximum Safe Operating Load		600 N
High and Low Temperature Bend Test	EIA-FOTP-37A	Passed @ -40ºC and +80ºC
Minimum Bend Radius at Maximum Load		6cm
Minimum Bend Radius Unloaded		3cm
Polyurethane Jacket		
Operating Temperature	EIA-FOTP-3	-40ºC to +85ºC
Storage Temperature (non-flexing)		-55ºC to +85ºC
Installation Temperature		-40ºC to +85ºC
Diameter (nominal)	4 Fiber - 5.3 mm (0.210 in)	
	2 Fiber - 5.3 mm (0.210 in)	
Weight	4 Fiber - 42 lbs/km	
	2 Fiber - 39 lbs/km	
Fiber Proof Test	100 KPSI	

SPECIFICATIONS (cont)

Optical Specifications (Transmission Data dB/km and Mhz - km)							
Multimode Fiber	Guaranteed Max. Attenuation 850 nm / 1300 nm	Typical Attentuation 850 nm / 1300 nm	Guaranteed Min. Bandwidth 850 nm / 1300 nm	Core Diameter (microns)	Clad Diameter (microns)	Cost Diameter (microns)	Numerical Aperture
50/125	3.5/1.2	2.6/0.6	400/400	50 +/- 3	125 +/- 2	500 +/- 25	.200 +/- .015
62.5/125 FDDI	3.75/1.2	2.7/0.75	160/500	62.5 +/- 3	125 +/- 2	500 +/- 25	.275 +/- .015
100/140	6.0/3.0	4.5/2.0	100/100	100 +/- 3	140 +/- 4	500 +/- 25	.290 +/- .020
200/230 3M	7.0/15.0	5.0/12	20/30	200 +/- 5	230 +/- 10	500 +/- 30	.390 +/- .020

Maximum Allowable Change in Attenuation over Temperaure Range		
Fiber Type	@ 850 nm	@ 1300 nm
50 / 125	1.0 dB	0.8 dB
62.5 / 125	1.5 dB	1.2 dB
100 / 140	2.0 dB	1.5 dB
Single Mode	1.0 dB	1.0 dB
* Hytrel/Kevlar are registered trademarks of the DuPont Co.		

ORDERING INFORMATION

Part Number	Description
002 2F TC-62FD	2 fiber tactical cable, multimode
702 2F TC-10C	2 fiber tactical cable, Corning single mode
004 4F TC-62FD	4 fiber tactical cable, multimode
704 4F TC-10C	4 fiber tactical cable, Corning single mode

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