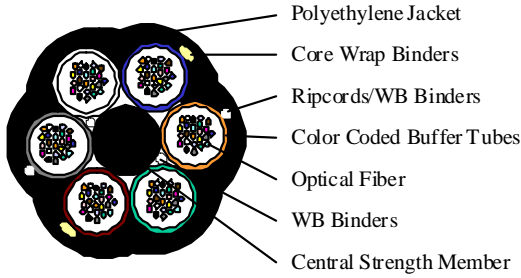


# Specification DNL-4805

## MicroCore

### Polyethylene Jacketed Loose Tube Cable



## LM144APO6101NS

### 144 Corning® SMF-28e+™ LL Singlemode

#### Standards

Designed and Manufactured in accordance with the following:

Cable	IEC 60794-1-2
Fiber	IEC 60793, ITU-T G.652D
Color Code	ANSI/EIA 359-A, 598-A, IEC 60304

#### Mechanical / Physical Details

Approximate Cable Diameter	7.9 mm	0.311 in
Approximate Cable Weight	53 kg/km	0.036 lbs/ft
Outer Jacket Type	High Density Polyethylene (HDPE)	
Outer Jacket Color	Black	
Maximum Tensile Load	Short Term	30.5 kg / 67.4 lbs
	Long Term	30.5 kg / 67.4 lbs
Minimum Bending Radius	Static	13 cm / 5 in
	Dynamic	16 cm / 7 in
Environmental Temperature Recommendations		
Storage	-30 to 65 °C	-22 to 149 °F
Operation	-30 to 65 °C	-22 to 149 °F
Installation	-10 to 65 °C	14 to 149 °F

# Specification DNL-4805

## Optical Details

### Attenuation Characteristics for Corning® SMF-28e+™ LL Singlemode fibers

Max Individual

0.35 dB/km 1310 nm  
 0.25 dB/km 1550 nm

144 Fiber Loose Tube Core (6 - 24 fiber buffer tubes)		Fiber Count
Unit	Fiber Type	
Blue	Corning® SMF-28e+™ LL Singlemode fibers	24
Orange	Corning® SMF-28e+™ LL Singlemode fibers	24
Green	Corning® SMF-28e+™ LL Singlemode fibers	24
Brown	Corning® SMF-28e+™ LL Singlemode fibers	24
Slate	Corning® SMF-28e+™ LL Singlemode fibers	24
White	Corning® SMF-28e+™ LL Singlemode fibers	24
<b>Total Fiber Count</b>		144

### Standard Fiber Color Code

Fiber No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua

Designs with more than 12 fibers per tube will use the standard color code and binders for identification of the fibers.

### Installation and Handling Recommendations

Installation and cable preparation procedures are outlined in the AFL documents listed below. Contact AFL to request copies.

*Installation Procedures for AFL MicroCore Fiber Optic Cables*

*Installation Instructions for Installing Loose Tube Fiber Optic Cable in an AFL Telecommunications Splice Enclosure*

*Fiber Optic Cable Receiving, Handling and Storage. Document ACS-WI-809*

# Specification DNL-4805

Installation Details		
Approximate Cable Diameter	7.90 mm	0.311 in
Minimum Bending Radius		
Cable		
After Installation (Static)	13 cm	5 in
During Installation (Dynamic)	16 cm	7 in
Fiber		
After Installation (Static)	3.8 cm	1.5 in
Plastic Buffer Tube		
After Installation (Static)	8 cm	3 in
<b>Reference AFL's "Installation Procedures for AFL Loose Tube Fiber Optic Cables" for detailed installation instructions.</b>		

Shipping Reels												
Reel Type	FL	TR	DR	OW	Tare (kgs)	FL	TR	DR	OW	Tare (lbs)	Capacity	
											(meters)	(feet)
	(cm)					(in)						
Wood	107	81	58	89	60	42	32	23	35	132	5,880	19,290
Wood	147	81	71	97	200	58	32	28	38	441	7,000	22,960
Wood	168	91	91	107	260	66	36	36	42	573	7,000	22,960
Wood	183	91	91	107	300	72	36	36	42	662	7,000	22,960
Wood	213	86	89	104	385	84	34	35	41	849	7,000	22,960
Steel	152	81	81	97	156	60	32	32	38	344	7,000	22,960
Steel	183	91	102	107	264	72	36	40	42	582	7,000	22,960
Steel	213	114	107	130	372	84	45	42	51	820	7,000	22,960
FL - Flange Diameter; TR - Inside Traverse Width; DR - Drum Diameter; OW - Outside Overall Width Arbor Hole Diameter: Wood: 3-1/8in (7.9cm) Steel: 3in (7.6cm)												
Maximum lengths shown are the longest lengths that AFL offers. Longer lengths may be possible.												
Wood reels with flex-wrap covering are standard. Wood lagging is available upon request. Additional reel sizes may be available upon request.												