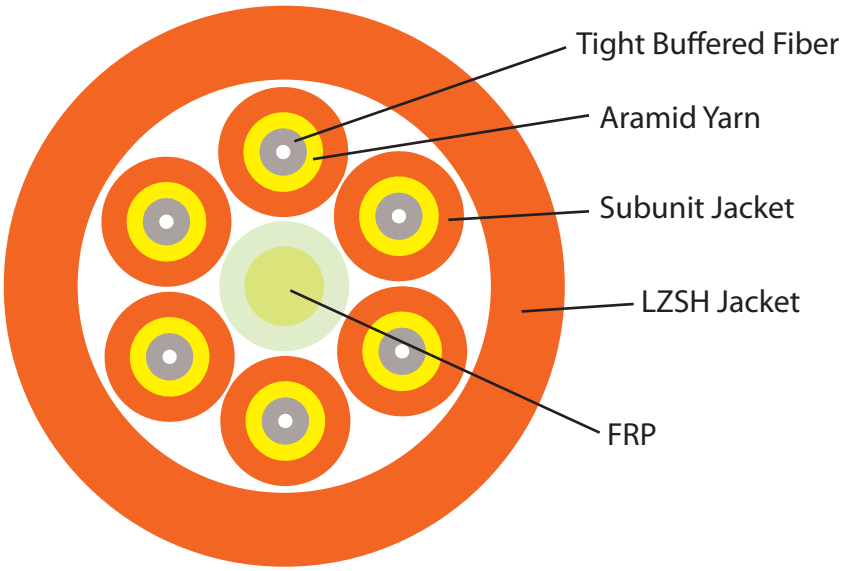
1. Cable Construction



1.1 Structure Specifications

Fiber Count		6
Subunit Jacket	OD (mm)	2.0±0.01
	Material	PVC
Max Fiber Count / Tube		1
Core Unit		6
FRP / Coating (mm)		2.0
Sheath	Thickness	Non. 1.5mm
	Material	LZSH
OD of Cable (mm)		8.3
Net Weight (kg/km)		62.5

US & Canada
+1-909-598-3718
pimfg.com
customerservice@pimfg.com
techsupport@pimfg.com

USA
PI Manufacturing
20732 Currier Road
Walnut, CA 91789

PI MANUFACTURING
Powered by Infinite Solutions
Since 1986

1.2 Subunit Jacket Identification

NO.	1	2	3	4	5	6

3 Performance Parameters of the Optical Fiber

3.1 Single Mode Fiber

	UNITS	SPECIFICATION
Fiber Type		G657A
Attenuation	dB/km	1310nm≤ 0.4 1550nm≤ 0.3
Chromatic Dispersion	ps/nm.km	1310nm≤ 3.5 1550nm≤ 18 1625nm≤ 22
Zero Dispersion Slope	$ps/nm^2.km$	≤ 0.092
Zero Dispersion Wavelength	nm	1300 ~ 1324
Cut-off Wavelength (λcc)	nm	≤ 1260
Attenuation vs. Bending (60mm x100turns)	dB	(10mm radius，1ring)≤ 1.5 @ 1625nm
Mode Field Diameter	μm	9.2±0.4 at 1310nm
Core-Clad Concentricity	μm	≤ 0.5
Cladding Diameter	μm	125±1
Cladding Non-circularity	%	≤ 0.8
Coating Diameter	μm	245±5
Proof Test	Gpa	≥ 0.69

3.2 Multimode Fiber

		UNITS	SPECIFICATION		
			50/125	OM3 (150m)	OM3 (300m)
Fiber Core Diameter		μ m	50.0±2.5	50.0±2.5	
Fiber Core Non-circularity		%	≤6.0	≤6.0	
Cladding Diameter		μm	125.0±1.0	125.0±1.0	
Cladding Non-circularity		%	≤2.0	≤2.0	
Coating Diameter		μm	245±10	245±10	
Coat-Clad Concentricity		μm	≤12.0	≤12.0	
Coating Non-circularity		%	≤8.0	≤8.0	
Core-Clad Concentricity		μm	≤1.5	≤1.5	
Attenuation	850nm	dB/km	3.0	3.0	
	1300nm	dB/km	1.5	1.5	
OFL	850nm	MHz. km	≥200	≥700	≥1500
	1300nm	MHz. km	≥400	≥500	≥500
The biggest theory			0.200±0.015	0.200±0.015	

US & Canada
+1-909-598-3718
pimfg.com
customerservice@pimfg.com
techsupport@pimfg.com

USA
PI Manufacturing
20732 Currier Road
Walnut, CA 91789

PI MANUFACTURING
Powered by Infinite Solutions
Since 1986

4. Mechanical and Environmental Performance of the Cable

NO.		TEST METHOD	ACCEPTANCE CRITERIA
1	Tensile Loading Test	#Test method:IEC 60794-1-E1 -. Long-tensile load：2000N -. Short-tensile load：1.5 times the cable weight -. Cable length：≥50m	-. Attenuation increment@1550nm:≤0.1dB -. No jacket cracking and fiber breakage
2	Crush Resistance Test	#Test method:IEC 60794-1-E3 -.Long-tensile load：3800 N/100mm -.Short-tensile load：1500 N/100mm Load time：1 minutes	-. Attenuation increment@1550nm:≤0.1dB -. No jacket cracking and fiber breakage
3	Impact Resistance Test	#Test method:IEC 60794-1-E4 -.Impact height：1m -.Impact weigh：450g -.Impact point：≥5 -.Impact frequency：≥3/point	-. Attenuation increment@1550nm:≤0.1dB -. No jacket cracking and fiber breakage
4	Repeated Bending	#Test method:IEC 60794-1-E6 -.Mandrel diameter：20D (D= diameter) -.Subject weight：15kg -.Bending frequency：30 times -.Bending speed：2s/time	-. Attenuation increment@1550nm:≤0.1dB -. No jacket cracking and fiber breakage
5	Torsion Test	#Test method:IEC 60794-1-E7 -.Length：1m -.Subject weight：25kg -.Angle：±180 degree -.Frequency：≥10/point	-. Attenuation increment@1550nm:≤0.1dB -. No jacket cracking and fiber breakage
6	Temperature Cycling Test	#Test method:IEC 60794-1-F1 -.Temperature steps：＋20℃，－40℃	-. Attenuation increment@1550nm:≤0.1dB

US & Canada
+1-909-598-3718
pimfg.com
customerservice@pimfg.com
techsupport@pimfg.com

USA
PI Manufacturing
20732 Currier Road
Walnut, CA 91789

		＋60℃，＋20℃ -.Testing Time：24hours/step -.Cycle index：2	-. No jacket cracking and fiber breakage
7	Drop Performance	#Test method: IEC 60794-1-F-1 -.Testing Length: 30cm -.Temperature Range: 70±2℃ -.Testing Time: 24 hours	-. No filling compound drop out
8	Temperature	Operating: -40℃ ~ +60℃ Store/Transport: -50℃ ~ +60℃ Installation: -20℃ ~ + 60℃	

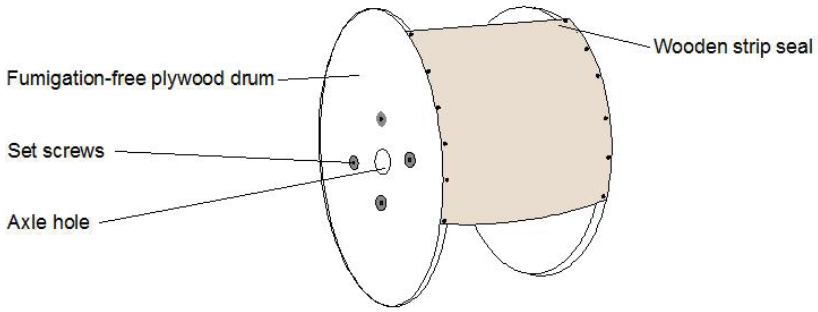
5. Fiber Optic Bending Radius

Static bending：≥10 times than cable out diameter

Dynamic bending：≥20 times than cable out diameter

6. Package

Not allowed two length units of cable in one drum. Two ends should be packed inside drum, reserve length of cable not less than 3 meters.



US & Canada
+1-909-598-3718
pimfg.com
customerservice@pimfg.com
techsupport@pimfg.com

USA
PI Manufacturing
20732 Currier Road
Walnut, CA 91789