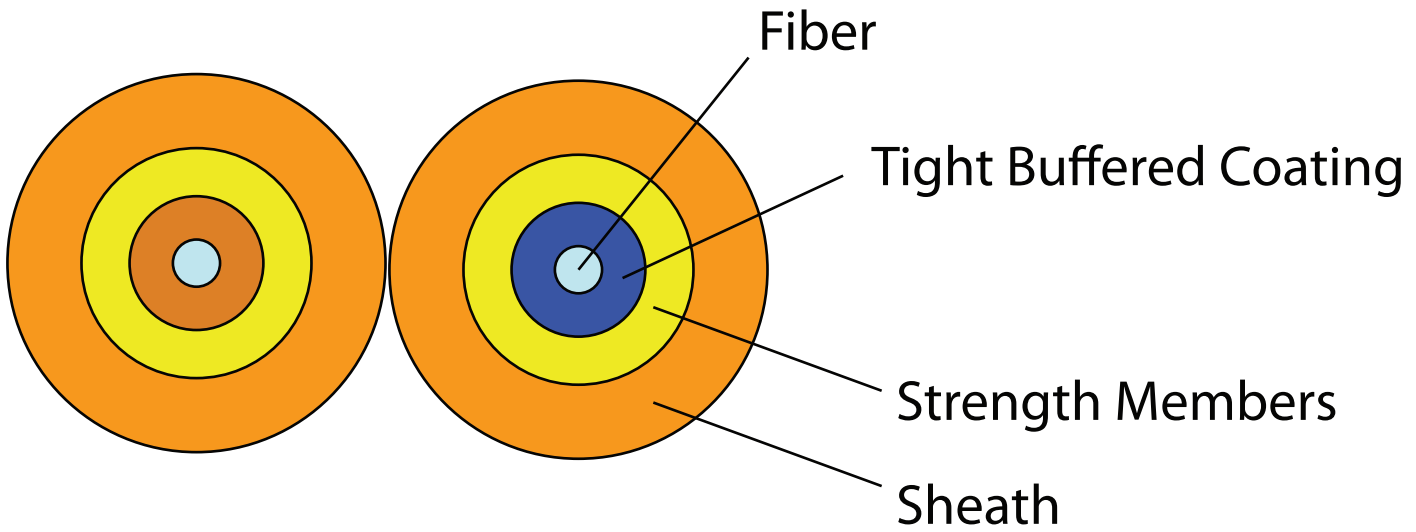


1. Cable Construction



1.1 Structure Specifications

Fiber Count		2
Tight Fiber	OD (mm)	0.85±0.05
	Material	PVC
Strength Members		Aramid Yarn
Sheath Thickness (mm)		0.3±0.05
Material		LSZH
OD of Cable (mm)		2.0*4.0±0.1
Net Weight (kg/km)		7.5
Maximum Tensile (N)		150

US & Canada

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

USA

PI Manufacturing
 20732 Currier Road
 Walnut, CA 91789



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1.2 Tight Buffer Color Code

Fiber	Tight Buffer Color Code		Outer Sheath
Single-mode	White	Yellow	Yellow
Multimode	White	Orange	Orange
10 Gigabit Multimode	White	Aqua	Aqua

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 (λ _{cc})	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

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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)	OM4 (550m)
Fiber Core Diameter	μm		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	≥3500
	1300nm	MHz . km	≥400	≥500	≥500	≥500
The biggest theory			0.275±0.015 0.200±0.015	0.200±0.015		

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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: 0.5 times the short-term pulling force -. Short-tensile load: reference to clause 2.1 -. Cable length: ≥50m	-. Attenuation increment@1550nm:≤0.4dB -. No jacket cracking and fiber breakage
2	Crush Resistance Test	#Test method:IEC 60794-1-E3 -.Long-tensile load: 300 N/100mm -.Short-tensile load: 1000 N/100mm Load time: 1 minutes	-. No fiber breakage
3	Impact Resistance Test	#Test method:IEC 60794-1-E4 -.Impact height: 1m -.Impact weigh: 100g -.Impact point: ≥3 -.Impact frequency: ≥1/point	-. No fiber breakage
4	Repeated Bending	#Test method:IEC 60794-1-E6 -.Mandrel diameter: 30H -.Subject weight: 2kg -.Bending frequency: 200 times -.Bending speed: 2s/time	-. No fiber breakage
5	Torsion Test	#Test method:IEC 60794-1-E7 -.Length: 1m -.Subject weight: 2kg -.Angle: ±180 degree -.Frequency: ≥10/point	-. No fiber breakage
6	Temperature Cycling Test	#Test method:IEC 60794-1-F1 -.Temperature steps: +20°C, -10°C	-. Attenuation increment@1550nm:≤0.3dB

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

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		+60°C, +20°C -.Testing Time: 8 hours/step -.Cycle index: 2	-. No jacket cracking and fiber breakage
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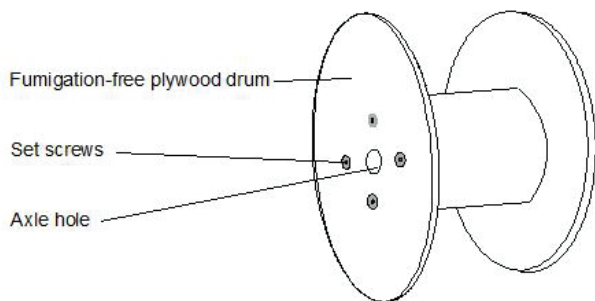
5. Fiber Optic Bending Radius

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 1 meter.



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