

Specification

FOR

FIBER OPTICAL CABLE

All Dielectric

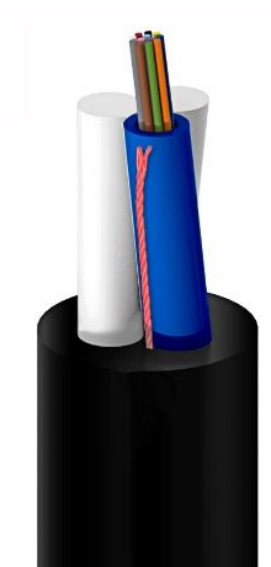
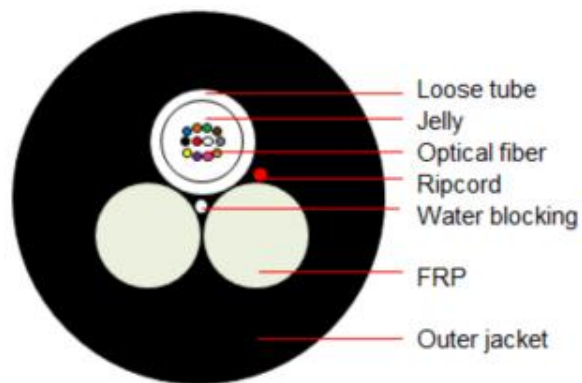
Hefei Lasun Communication Co.,Ltd

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1. Cable construction

1.1. Cross sectional diagram



1.2. Structure specification

Fiber type		G657A1
Fiber quantity (cores)		12F
Tube quantity (ea)		1
Filler quantity (ea)		2
Loose tube	OD (mm)	2.0mm ± 0.2 mm
	Thickness(mm)	0.3
	Material	PBT
	Water- blocking	Fiber Jelly
Strength member/ Filler	OD (mm)	2*2.0mm ± 0.2 mm
	Material	FRP
Water blocking material		Water-blocking yarn
Ripcord (ea)		1/ Red
Sheath	Material	PE
	Thickness (mm)	1.6mm ± 0.2 mm
Dimension of cable (mm)		7.2 ± 0.2
Span		100M
Net weight (kg/km)		49 ± 5

Fiber /Tube identification

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

2. Performance parameters of fiber optic core

2.1 Single Mode Fiber

LTEMS	UNITS	SPECIFICATION	
Fiber type		G652D	G657A
Attenuation	dB/km	$1310\text{nm} \leq 0.36$ $1550\text{nm} \leq 0.22$	
Chromatic Dispersion	ps/nm.km	$1310\text{nm} \leq 3.5$ $1550\text{nm} \leq 18$ $1625\text{nm} \leq 22$	
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	(30mm radius, 100ring) $\leq 0.1 @ 1625\text{nm}$	(10mm radius, 1ring) $\leq 1.5 @ 1625\text{nm}$
Mode Field Diameter	μm	9.2 ± 0.4 at 1310nm	9.2 ± 0.4 at 1310nm
Core-Clad Concentricity	μm	≤ 0.5	≤ 0.5
Cladding Diameter	μm	125 ± 1	125 ± 1
Cladding Non-circularity	%	≤ 0.8	≤ 0.8
Coating Diameter	μm	245 ± 5	245 ± 5
Proof Test	Gpa	≥ 0.69	≥ 0.69

2.2 Fiber optical cable bending radius

Static bending: ≥ 15 times than cable out diameter

Dynamic bending: ≥ 20 times than cable out diameter.

3. Mark and Package

3.1 Cable Mark

3.1.1 Manufacturing year, fiber count, fiber type, sheath material, meter mark for without especial request.

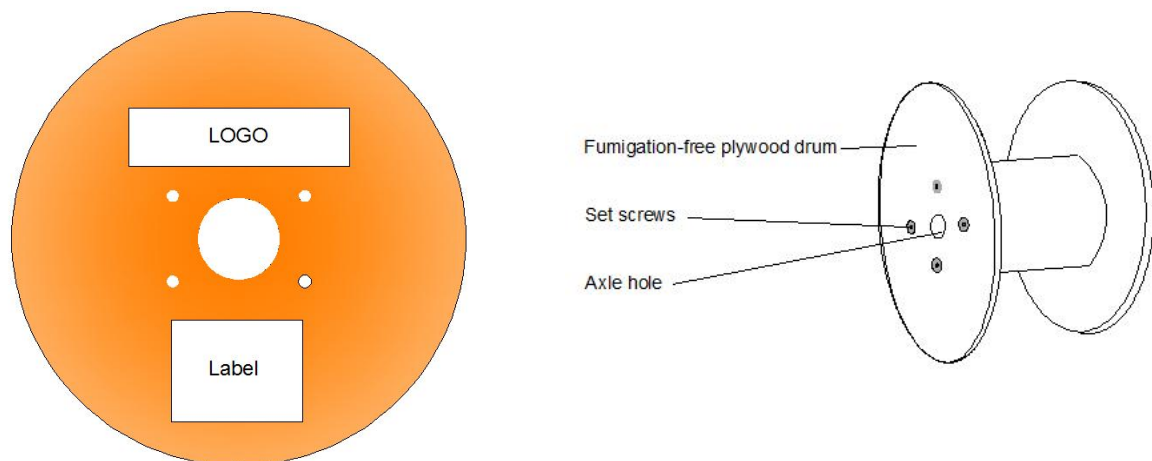
3.1.2 Customized printing by order request.

3.2 Drum Mark

3.2.1. Drum size according to the length of cable packed.

3.2.2. Logo will be print on both side of drum, size will be according to customer request.

3.3.3. Label including manufacturing date, item number, length, description of cable, drum number. Format and information available be customized.



3.3 Package

3.3.1 Packing length, 2k m/plywood reel, the other length packed available.

3.3.2 Packing material, cable on drum wrapped by protective foil with, Plywood reel as usual package, metal reel available but shall be noted individually if required specially.

4. Test report supplied.