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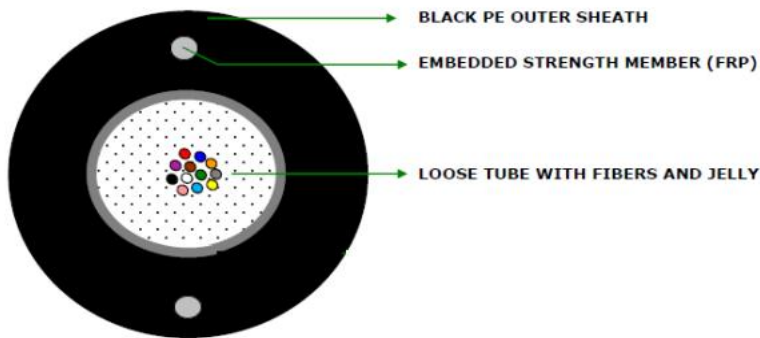
Specification

FOR GYFXTY-8-OM3-3kN Optic Cable



1. CABLE CONSTRUCTION

1.1. CROSS SECTIONAL DIAGRAM



1.2. TECHNICAL SPECIFICATION

Fiber count		8
Loose Tube	OD(mm):	2.0^{±0.1}
	Material:	PBT
Max fiber count/tube		8
Core structure		Central Tube
Embedded strength member FRP		2*1.6mm
Sheath	Thickness:	Non. 2.5mm
	Material:	MDPE
OD of cable (mm)		7.2
Net weight (±10% kg/km)		45

2. FIBER AND LOOSE BUFFER TUBE IDENTIFICATION



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

3.OPTICAL FIBER

3.1 Single Mode Fiber

LTEMS	UNITS	SPECIFICATION	
Fiber type		OM3 50/125	
Attenuation	dB/km	≤0.10	
Zero Dispersion Slope	ps/nm ² .km	≤0.11	
Zero Dispersion Wavelength	nm	1295~1320	
Attenuation vs. Bending (60mm x100turns)	dB	(30mm radius, 100ring) ≤ 0.1 @ 1625nm	(10mm radius, 1ring) ≤ 1.5 @ 1625nm
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

4.Mechanical and Environmental Performance of the Cable

NO.	ITEMS	TEST METHOD	ACCEPTANCE CRITERIA
1	Tensile Loading Test	#Test method:IEC 60794-1-E1 -. Long-tensile load: 1000N -. Short-tensile load: 3000N -. Cable length: ≥50m	-. No jacket cracking and fiber breakage
2	Crush Resistance	#Test method:IEC 60794-1-E3 -.Long load: 300 N/100mm	-. Attenuation increment@1550nm:≤0.1dB



	Test	-Short load: 1000 N/100mm Load time: 1 minutes	- No jacket cracking and fiber breakage
3	Impact Resistance Test	#Test method:IEC 60794-1-E4 -.Impact height: 1 m -.Impact weigh: 450 g -.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 = cable 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:15kg -.Angle: ±180 degree -.Frequency: ≥10/point	- Attenuation increment@1550nm:≤0.1dB -. No jacket cracking and fiber breakage
6	Water Penetration Test	#Test method:IEC 60794-1-F5B -.Height of pressure head: 1m -.Length of specimen: 3m -.Test time: 24 hours	- No leakage through the open cable end
7	Temperature Cycling Test	#Test method:IEC 60794-1-F1 -.Temperature steps: +20℃、-40℃、+70℃、+20℃ -.Testing Time: 24 hours/step -.Cycle index: 2	- Attenuation increment@1550nm:≤0.1dB -. No jacket cracking and fiber breakage
8	Drop Performance	#Test method:IEC 60794-1-E14 -.Testing length: 30cm -.Temperature range: 70±2℃ -.Testing Time: 24 hours	- No filling compound drop out
9	Temperature	Operating:-40℃~+60℃ Store/Transport :-50℃~+70℃ Installation -20℃~+60℃	

5.FIBER OPTIC CABLE BENDING RADIUS

Static bending: ≥10 times than cable out diameter

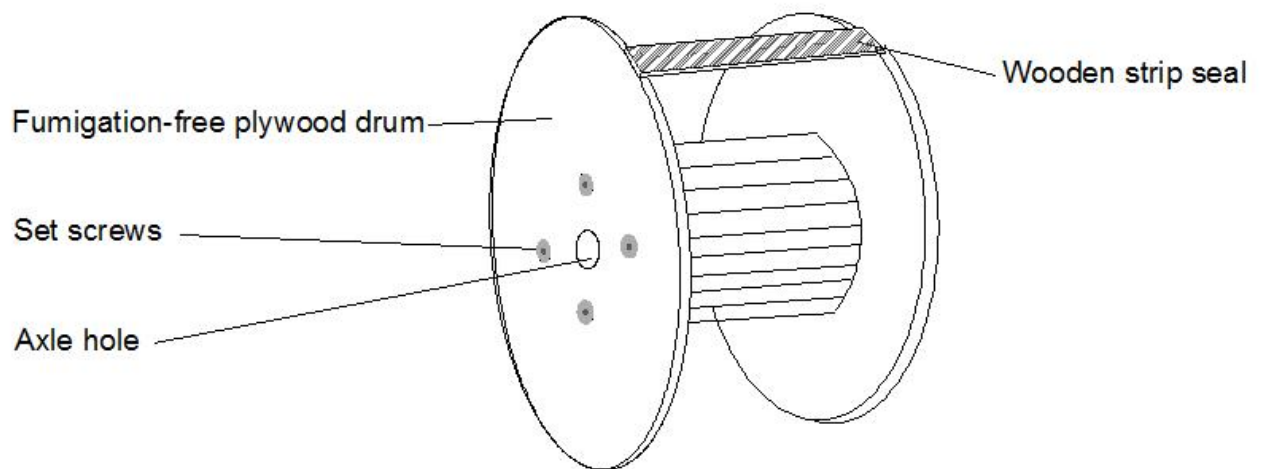


Dynamic bending: ≥ 20 times than cable out diameter.

6. PACKAGE AND MARK

6.1 PACKAGE

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



6.2 MARK

Cable Mark: length, brand (Available on request)

Drum Mark: Manufacturer, cable category, No. of drum, length, GW. direction of rotation, manufacturing date.

7. TEST REPORT

Test report and certification supplied.