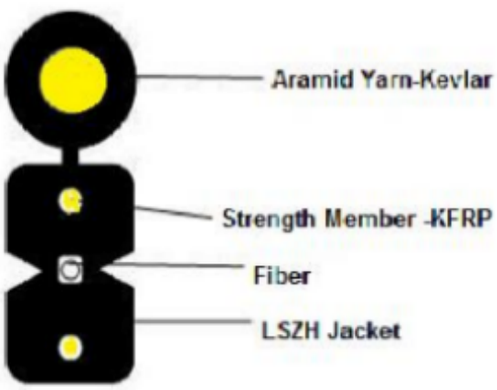
FIBRA DROP DIELÉCTRICA

1F

LifeFiber
REDES FTTH

CABLE CONSTRUCTION



STRUCTURE SPECIFICATION

Cable Type	**GJYXFCH**
Fiber count	**1**
The Color Code of The fibers	Blue
Strength Member	K-FRP
Messenger wire	Aramid Yarn –Kevlar
Jacket Material：	LSZH
OD of cable(mm)	2.0×5.0±0.1
Net weight (kg/km)	10
Max.Tensile Loading (N)	600

PERFORMANCE PARAMETERS OF THE OPTICAL FIBER

LTEMS	UNITS	SPECIFICATION	
Fiber type		**G652D**	**G657A**
Attenuation	dB/km	1310nm≤ 0.4 1550nm≤ 0.3	
Chromatic Dispersion	ps/nm.km	1310nm≤ 3.6 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	(30mm radius，100ring)≤ 0.1 @ 1625nm	(10mm radius，1ring)≤ 1.5 @ 1625nm

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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

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：0.5 times the short-term pulling force -. Short-tensile load：reference to clause 2.1 -. 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 load：1000 N/100mm -.Short load：2200 N/100mm Load time：1 minutes	-. Attenuation increment@1550nm:≤0.4dB -. No jacket cracking and fiber breakage
3	Impact Resistance Test	#Test method:IEC 60794-1-E4 -.Impact height：1 m -.Impact weigh：100 g -.Impact point：≥3	-. Attenuation increment@1550nm:≤0.4dB -. No jacket cracking and fiber breakage
		-.Impact frequency：≥1/point	
4	Repeated Bending	#Test method:IEC 60794-1-E6 -.Mandrel diameter：30H -.Subject weight：2kg -.Bending frequency：300times -.Bending speed：2s/time	-. Attenuation increment@1550nm:≤0.4dB -. No jacket cracking and fiber breakage
5	Torsion Test	#Test method:IEC 60794-1-E7 -.Length：1m -.Subject weight:2kg -.Angle：±180 degree -.Frequency：≥20/point	-. Attenuation increment@1550nm:≤0.4dB -. No jacket cracking and fiber breakage
6	Temperature Cycling Test	#Test method:IEC 60794-1-F1 -.Temperature steps：+20℃、−10℃、+60℃、+20℃ -.Testing Time：8 hours/step -.Cycle index：2	-. Attenuation increment@1550nm:≤0.3dB -. No jacket cracking and fiber breakage
7	temperature	Operating :-10℃~+60℃ Store/Transport:-10℃~+60℃ Installation:-10℃~+60℃	

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FIBER OPTIC CABLE BENDING RADIUS

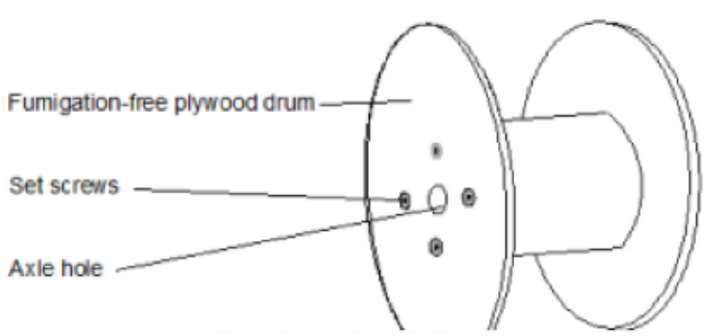
Static bending：≥10 times than cable out diameter
Dynamic bending：≥20 times than cable out diameter.

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 1meters.

MARK

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



TEST REPORT

Test report and certification supplied.