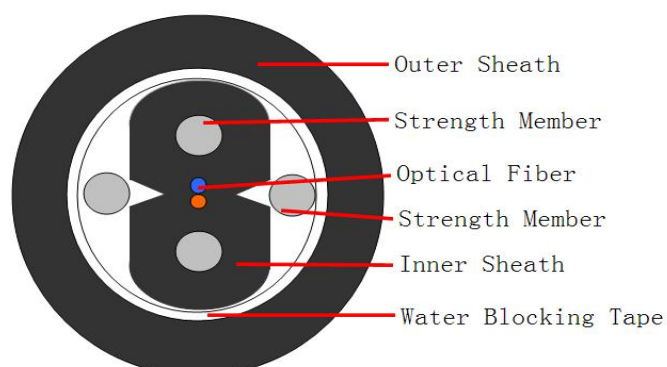


GJYXHA(G.657A1)

1、Cable Design



2 .Materials and mechanical parameters

Number of cores		/	2
Fiber type		/	G.657A1
Strength Member	Material	mm	Phosphated steel wire
	Size		0.4 ± 0.03
	Number		2
Inner Sheath	Material	mm	LSZH
	Size		$(2.0 \pm 0.1) \times (3.0 \pm 0.1)$
Strength Member	Material	mm	Phosphated steel wire
	Size		0.4 ± 0.03
	Number		2
Water Blocking Layer (Material)		/	Water Blocking Tape
Outer Sheath	Material	mm	MDPE
	Thickness		0.8 ± 0.1
	colour		Black
Cable size (± 0.1) mm		mm	5.8 ± 0.2
Cable wight (± 2) kg/km		kg/km	26 ± 2
Max attenuation	1310nm	dB/km	0.40
	1550nm		0.30
Tensile strength	Long term	N	300
	Short term		1000
Crush strength	Long term	N/100mm	300
	Short term		1000
Bending radius	static	mm	15 cable's diameter
	dynamic		30 cable's diameter
Working temperature		℃	-40~+70
marking	HEADWAY GJYXH03-1SM G.657A1 ****M		

3、Fiber colours

No.	1	2
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Color	Blue	Orange
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4、The properties of optical fiber (ITU-T Rec. G.657A1)

No.	Items		Unit	Specification
				G.657A1
1	Mode Field Diameter	1310nm	μm	8.6 ± 0.4
		1550nm	μm	9.6 ± 0.5
2	Cladding Diameter		μm	125.0 ± 0.7
3	Cladding Non-Circularity		%	≤ 0.7
4	Core-Cladding Concentricity Error		μm	≤ 0.5
5	Coating Diameter		μm	245 ± 10
6	Coating Non-Circularity		%	≤ 6.0
7	Cladding-Coating Concentricity Error		μm	< 12.0
8	Cable Cutoff Wavelength		nm	$\lambda_{cc}\leq 1260$
9	Attenuation(max.)	1310nm	dB/km	≤ 0.35
		1550nm		≤ 0.24
10	Macro-Bending Loss	1 turn $\times$ 7.5mm radius @1550nm	dB	≤ 0.4
		1 turn $\times$ 7.5mm radius @1625nm	dB	≤ 0.8