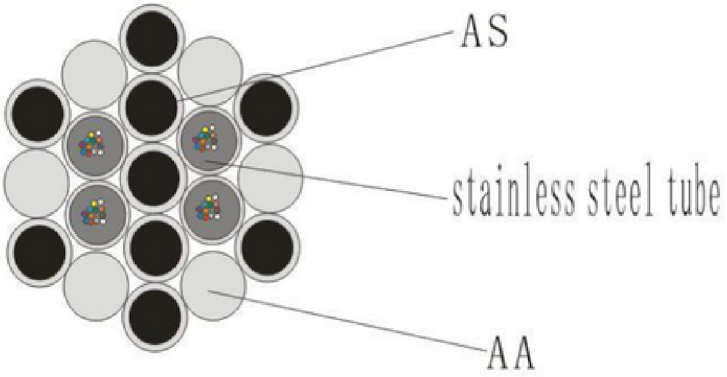
Optical Fiber Cable
OPGW 48B1-100

Structure:



Applications:

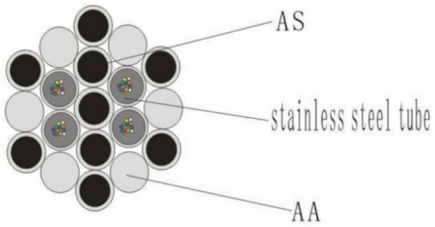
- External cable distribution
- Power transmission lines for lightning protection and data transmission
- Interconnection networks
- 3km reel, G652.D standard



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Specifications

1. Construction of the cable

OPGW-48B1-100[74；81] Technical Parameter tables					
Cross section:					
	**Structure:**				
		Name		Diameter	
	Center	20%AS wire	1	3.10	mm
	Lay 1	20%AS wire	2	2.90	mm
		AA(LHA2) wire	0		
		SUS tube	4/4	2.80	mm
	Lay 2	20%AS wire	6	2.90	mm
		AA(LHA2) wire	6	2.90	

Specification:	Strand:anti-corrosion gel is filled between center tube and layers		
	stranding direction of outer layer is right hand(Z-stranding)		
	Cable Diameter	14.70	mm
	stranding direction of outer layer is right hand(Z-stranding)	left hand(S-stranding)	
	Cable Weight	484	kg/km
Technical parameter:	According to IEC and DL/T832-2003 stands		
	Supporting Cross Section	100	mm2
	AS area	60.39	mm2
	AA area	39.63	mm2
	Rate Tensile Strength（RTS）	73.8	kN
	Modulus of Elasticity（E-Modulus)	110.8	kN/mm2
	Thermal Elongation Coefficient	16.1	10-6/℃
	Permissible Maximum Working Stress (MAT)(40%RTS)	295.1	N/mm2
	Everyday Stress(DET) (15%~25%RTS)	110.7-184.5	N/mm2
	Ultimate Exceptional Stress(70%RTS)	516.5	N/mm2
	DC Resistance	0.470	Ω/km
	short circuit current 1s,40℃~200℃)	9.3	kA
	Short circuit current capacity (I2t)	81.2	kA2s
	Minimum Bending Radius	368	mm
Temperature	Installation	-10℃ ~ +50	℃
	Transportation and Operation	-40℃ ~ +80	℃