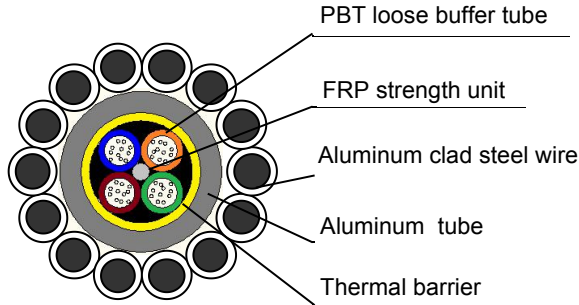
	Hunan Guanglian Photoelectricity Technologies	Serial No:	GL20160222
	OPGW Cable Specifications	Bid No:	

Cable Type: OPGW-48B4-93 [71.5;62.1]

Cross Section:



Structure		Name	No	Name	No	Material Dia.	
	Fiber	G.652D	0	G.655	48		
Center	AL-Tube	1				Tube-Dia.	6/8.2 mm
Layer1	27% AS wire	12	AA wire	0		Diameter	2.70 mm

Technical Data	according to IEC, IEEE, DL/T 832-2003, GB/T 7424.4-2003 standards	
	stranding direction of outer layer is right hand(Z-stranding)	
	Cable Diameter	13.6 mm
	Cable Weight	498 kg/km
	Supporting Cross Section	93.2 mm ²
	Section of AS Wire	68.71 mm ²
	Section of AA Wire	0.00 mm ²
	Section of AL tube	24.54 mm ²
	Rate Tensile Strength (RTS)	71.5 kN
	Modulus of Elasticity (E-Modulus)	117.9 kN/mm ²
	Thermal Elongation Coefficient	14.6 × 10 ⁻⁶ /°C
	Permissible Maximum Working Stress (40% RTS)	306.6 N/mm ²
	Everyday Stress (EDS) (18%~25% RTS)	138.0 ~191.7 N/mm ²
	Ultimate Exceptional Stress (70% RTS)	536.6 N/mm ²
	DC Resistance	0.518 Ω/km
	Short Time Current (0.1s, 25°C~200°C)	24.9 kA
Short Time Current Capacity I ² t	62.1 kA ² s	
Minimum Bending Radiu Installation:	340 mm	
Operating:	204 mm	
Ratio between Pull and Weight	14.6 km	
Temperature Range:	Installation	-10°C ~ +50 °C
	Transportation and Operation	-40°C ~ +80 °C

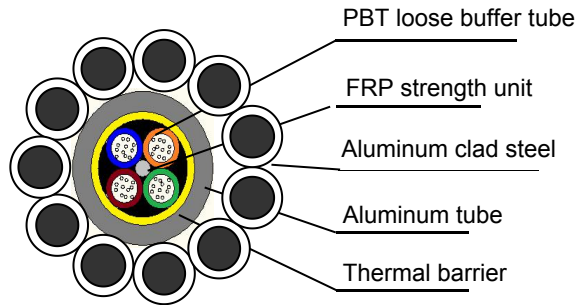
Remarks: All Sizes and Values are Nominal Values

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	Hunan Guanglian Photoelectricity Technologies	Serial No:	GL20160425
	OPGW Cable Specifications	Bid No:	

Cable Type: OPGW-48B1-98 [86.7;45.8]

Cross Section:



Structure	Name	No	Name	No	Material Dia.	
	Fiber	G.652D	48	G.655	0	
Center	AL-Tube	1			Tube-Dia	6/8 mm
Layer1	20% AS wire	5	27% AS wire	6	Diameter	3.00 mm

Technical Data	according to IEC, IEEE, DL/T 832-2003, GB/T 7424.4-2003 standards	
	stranding direction of outer layer is right hand(Z-stranding)	
	Cable Diameter	14.0 mm
	Cable Weight	570 kg/km
	Supporting Cross Section	99.7 mm ²
	Section of 20% AS wire	35.34 mm ²
	Section of 27% AS Wire	42.41 mm ²
	Section of AL tube	21.99 mm ²
	Rate Tensile Strength (RTS)	86.7 kN
	Modulus of Elasticity (E-Modulus)	129.3 kN/mm ²
	Thermal Elongation Coefficient	14.1 ×10 ⁻⁶ /°C
	Permissible Maximum Working Stress (40% RTS)	347.6 N/mm ²
	Everyday Stress (EDS) (18%~25% RTS)	156.4 ~217.3 N/mm ²
	Ultimate Exceptional Stress (70% RTS)	608.3 N/mm ²
	DC Resistance	0.542 Ω/km
	Short Time Current (0.3s, 40°C~140°C)	12.4 kA
	Short Time Current Capacity I ² t	45.8 kA ² s
Minimum Bending Rad Installation:	350 mm	
Operating:	210 mm	
Ratio between Pull and Weight	15.5 km	
Temperature Range:	Installation	-10°C ~ +50 °C
	Transportation and Operation	-40°C ~ +80 °C

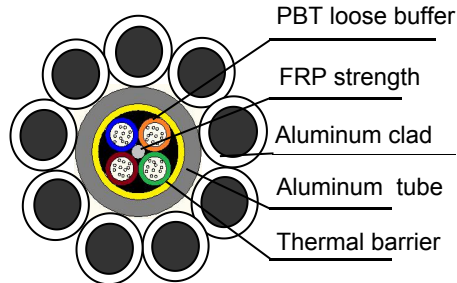
Remarks: All Sizes and Values are Nominal Values

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	unan Guanglian Photoelectricity Technology	Serial No:	GL20161221
	OPGW Cable Specifications	Bid No:	

Cable Type: OPGW-24B1-117 [113.7;77.8]

Cross Section:



Structure	Fiber	Name	No	Name	No	Material Dia.	
			G.652D	24	G.655	0	
	Center	SUS Tube/AL-	1			Tube-Dia.	5.4/7.4 mm
	Layer1	23% AS wire	9	AA wire	0	Diameter	3.70 mm

Technical Data	according to IEC, IEEE, DL/T 832-2003, GB/T 7424.4-2003 standards	
	stranding direction of outer layer is right hand(Z-stranding)	
	Cable Diameter	14.8 mm
	Cable Weight	690 kg/km
	Supporting Cross Section	116.9 mm ²
	Section of AS Wire	96.77 mm ²
	Section of AA Wire	0.00 mm ²
	Section of AL tube	20.11 mm ²
	Ultimate Tensile Strength (UTS)	123.1 kN
	Rate Tensile Strength (RTS)	113.7 kN
	Modulus of Elasticity (E-Modulus)	133.0 kN/mm ²
	Thermal Elongation Coefficient	13.6 × 10 ⁻⁶ /°C
	Permissible Maximum Working Stress (40% RTS)	389.2 N/mm ²
	Everyday Stress (EDS) (18%~25% RTS)	175.1 ~243.3 N/mm ²
	Ultimate Exceptional Stress (70% RTS)	681.1 N/mm ²
	DC Resistance	0.504 Ω/km
	Short Time Current (0.5s, 40°C~200°C)	12.5 kA
	Short Time Current Capacity I2t	77.8 kA2s
Minimum Bending Rad Installation:	370 mm	
Operating:	222 mm	
Ratio between Pull and Weight	16.8 km	
Temperature Range:	Installation	-10°C ~ +50 °C
	Transportation and Operation	-40°C ~ +80 °C

Remarks: All Sizes and Values are Nominal Values

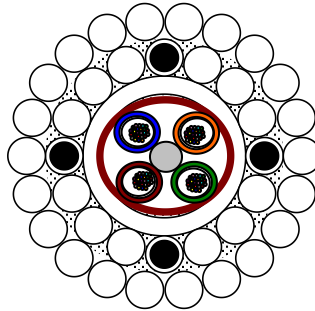
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Hunan Guanglian Photoelectricity Technologies Co.,Ltd.

OPGW-96B1-215[73;413.5]

Cross Section:



		Named	No.	Diameter
Structure Details	Center	Aluminum Tube	1	10.60 mm
		Optical-Unit	1	8.00 mm
	Layer 1	20%AS wire	4	2.45 mm
		AA wire(LHA1)	12	
Layer 2	AA wire(LHA1)	22	2.45 mm	

Technical Data	According to IEEE std 1138、IEC 60794-4 standards	
	Stranding direction of outer layer is "Right-hand"	
	Fiber No. & Type	96 G.652
	Standard Diameter	20.40 mm
	Supporting Cross Section	214.58 mm ²
	Section of AS wire	18.86 mm ²
	Section of AA wire	160.29 mm ²
	Section of Optical unit	35.44 mm ²
	Approximate mass	727.7 kg/km
	Rated Tensile Strength	73.5 kN
	Maximum Allowable Tension(40%RTS)	137.0 N/mm ²
	Everyday Stress(20%RTS)	68.5 N/mm ²
	Strain Margin Stress(70%RTS)	239.7 N/mm ²
	Modulus of Elasticity	72.5 GPa
	Thermal Elongation Coefficient	21.0 ×10 ⁻⁶ /°C
	Calculated D.C. Resistance at 20°C	0.160 Ω/km
	Short-Circuit Current (1 sec, 40~200°C)	20.3 kA
Short-Circuit Current Capacity (40~200°C)	413.5 kA ² ·s	
Minimum Bending Radius	408 mm	
Ratio between Pull and Weight	10.30 km	
Temperature Range:	Installation	-10°C ~ +50 °C
	Transportation and Operation	-40°C ~ +80 °C

Remarks: All Sizes and Values are Nominal Values

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