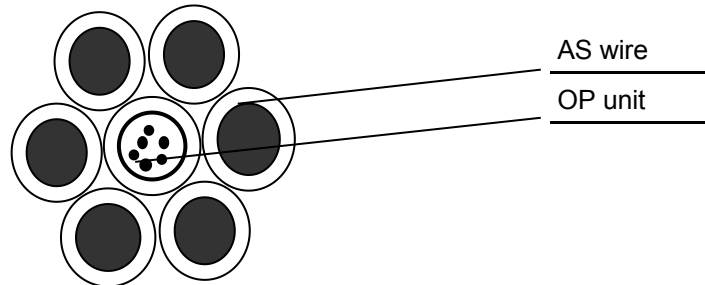
	<b>Hunan Guanglian Photoelectricity Technologies</b>	Serial No:	<b>GL20160412</b>
	<b>OPGW Cable Specifications</b>	Bid No:	

Cable Type: OPGW-24B1-68 [69.8;27.3]

Cross Section:



Structure		Name	No	Name	No	Material Dia.	
		Fiber	G.652	24	G.655	0	
	Center	SUS Tube	1	Fibers	24	Tube-Dia.	3.80 mm
	Layer1	27%ASwire	6	AA wire	0	Diameter	3.80 mm

<b>Technical Data</b>	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	11.40 mm
	Cable Weight	432 kg/km
	Supporting Cross Section	68.0 mm <sup>2</sup>
	Section of AS Wire	68.0 mm <sup>2</sup>
	Section of AA Wire	0.00 mm <sup>2</sup>
	Rate Tensile Strength (RTS)	69.8 kN
	Modulus of Elasticity (E-Modulus)	140.0 kN/mm <sup>2</sup>
	Thermal Elongation Coefficient	13.4 ×10 <sup>-6</sup> /°C
	Permissible Maximum Working Stress (40% RTS)	410.4 N/mm <sup>2</sup>
	Everyday Stress (EDS) (18%~25% RTS)	184.7 ~256.5 N/mm <sup>2</sup>
	Ultimate Exceptional Stress (70% RTS)	718.2 N/mm <sup>2</sup>
	DC Resistance	0.952 Ω/km
	Short Time Current (0.25s, 40°C~200°C)	10.4 kA
	Short Time Current Capacity I <sup>2</sup> t	27.3 kA <sup>2</sup> s
Minimum Bending Rad Installation:	285 mm	
Operating:	171 mm	
Ratio between Pull and Weight	16.5 km	
<b>Temperature Range:</b>	Installation	-10°C ~ +50 °C
	Transportation and Operation	-40°C ~ +80 °C

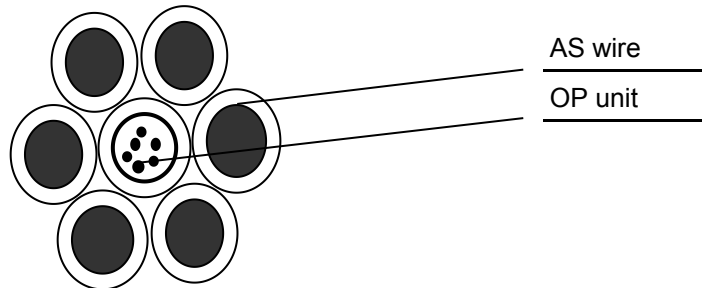
Remarks: All Sizes and Values are Nominal Values

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	<b>Hunan Guanglian Photoelectricity Technologies</b>	Serial No:	<b>GL20160421</b>
	<b>OPGW Cable Specifications</b>	Bid No:	

**Cable Type:** OPGW-24B1+12B4-58 [69.6;18.1]

**Cross Section:**




Structure	Name	No	Name	No	Material Dia.	
	Fiber	G.652	24	G.655	12	
Center	SUS Tube	1	Fibers	36	Tube-Dia.	3.50 mm
Layer1	20.3%ASwire	6	AA wire	0	Diameter	3.50 mm

<b>Technical Data</b>	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	10.50 mm
	Cable Weight	410 kg/km
	Supporting Cross Section	57.7 mm <sup>2</sup>
	Section of AS Wire	57.7 mm <sup>2</sup>
	Section of AA Wire	0.00 mm <sup>2</sup>
	Rate Tensile Strength (RTS)	69.6 kN
	Modulus of Elasticity (E-Modulus)	162.0 kN/mm <sup>2</sup>
	Thermal Elongation Coefficient	13.0 × 10 <sup>-6</sup> /°C
	Permissible Maximum Working Stress (40% RTS)	482.6 N/mm <sup>2</sup>
	Everyday Stress (EDS) (18%~25% RTS)	217.2 ~301.6 N/mm <sup>2</sup>
	Ultimate Exceptional Stress (70% RTS)	844.6 N/mm <sup>2</sup>
	DC Resistance	1.490 Ω/km
	Short Time Current (0.5s, 20°C~200°C)	6.0 kA
	Short Time Current Capacity I <sup>2</sup> t	18.1 kA <sup>2</sup> s
	Minimum Bending RadInstallation:	262 mm
Operating:	157 mm	
Ratio between Pull and Weight	17.3 km	
<b>Temperature Range:</b>	Installation	-10°C ~ +50 °C
	Transportation and Operation	-40°C ~ +80 °C

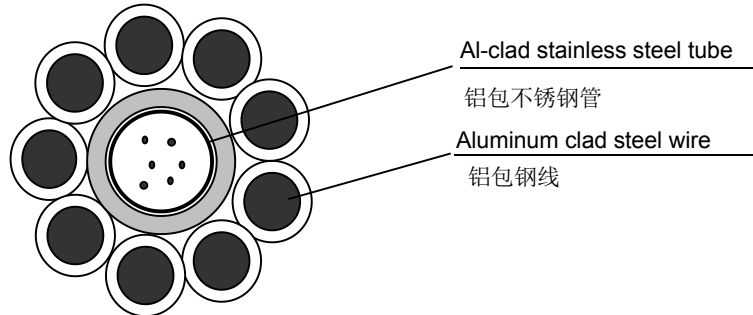
Remarks: All Sizes and Values are Nominal Values

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	<b>Hunan Guanglian Photoelectricity Technologies</b>	<b>Serial No:</b>	<b>GL20161116</b>
	<b>OPGW Cable Specifications</b>	<b>Bid No:</b>	

**Cable Type:** OPGW-24B1-82 [66.2;48.0]

**Cross Section:**



Structure	Fiber	Name	No	Name	No	Material Dia.	
			G.652D	24	G.655	0	
	Center	SUS Tube/AL-	1			Tube-Dia:	3.6/6 mm
	Layer1	27% AS wire	9	AA wire	0	Diameter:	3.00 mm

<b>Technical Data</b>	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	12.0 mm
	Cable Weight	465 kg/km
	Supporting Cross Section	81.7 mm <sup>2</sup>
	Section of AS Wire	63.62 mm <sup>2</sup>
	Section of AA Wire	0.00 mm <sup>2</sup>
	Section of AL tube	18.10 mm <sup>2</sup>
	Rate Tensile Strength (RTS)	66.2 kN
	Modulus of Elasticity (E-Modulus)	121.4 kN/mm <sup>2</sup>
	Thermal Elongation Coefficient	14.4 × 10 <sup>-6</sup> /°C
	Permissible Maximum Working Stress (40% RTS)	324.0 N/mm <sup>2</sup>
	Everyday Stress (EDS) (18%~25% RTS)	145.8 ~202.5 N/mm <sup>2</sup>
	Ultimate Exceptional Stress (70% RTS)	567.0 N/mm <sup>2</sup>
	DC Resistance	0.616 Ω/km
	Short Time Current (1s, 40°C~200°C)	6.9 kA
Short Time Current Capacity I <sup>2</sup> t	48.0 kA <sup>2</sup> s	
Minimum Bending Radiu Installation:	300 mm	
Oprating:	180 mm	
Ratio between Pull and Weight	14.5 km	
<b>Temperature Range:</b>	Installation	-10°C ~ +50 °C
	Transportation and Operation	-40°C ~ +80 °C

Remarks: All Sizes and Values are Nominal Values

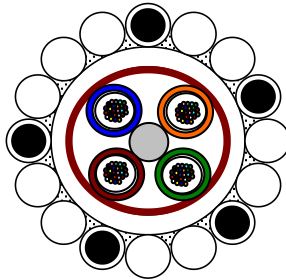
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Hunan Guanglian Photoelectricity Technologies Co.,Ltd.

OPGW-96B1-105[44;96.7]

Cross Section:



		Named	No.	Diameter
<b>Structure Details</b>	Center	Aluminum Tube	1	10.40 mm
		Optical-Unit	1	8.00 mm
	Layer 1	20%AS wire	5	2.40 mm
		AA wire(LHA1)	11	

<b>Technical Data</b>	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	15.20 mm
	Supporting Cross Section	104.52 mm <sup>2</sup>
	Section of AS wire	22.62 mm <sup>2</sup>
	Section of AA wire	49.76 mm <sup>2</sup>
	Section of Optical unit	32.14 mm <sup>2</sup>
	Approximate mass	438.7 kg/km
	Rated Tensile Strength	44.2 kN
	Maximum Allowable Tension(40%RTS)	169.0 N/mm <sup>2</sup>
	Everyday Stress(20%RTS)	84.5 N/mm <sup>2</sup>
	Strain Margin Stress(70%RTS)	295.7 N/mm <sup>2</sup>
	Modulus of Elasticity	83.5 GPa
	Thermal Elongation Coefficient	18.8 ×10 <sup>-6</sup> /°C
	Calculated D.C. Resistance at 20°C	0.347 Ω/km
Short-Circuit Current (1 sec, 40~200°C)	9.8 kA	
Short-Circuit Current Capacity (40~200°C)	96.7 kA <sup>2</sup> ·s	
Minimum Bending Radius	304 mm	
Ratio between Pull and Weight	10.27 km	
<b>Temperature Range:</b>	Installation	-10°C~+50 °C
	Transportation and Operation	-40°C~+80 °C

Remarks: All Sizes and Values are Nominal Values

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