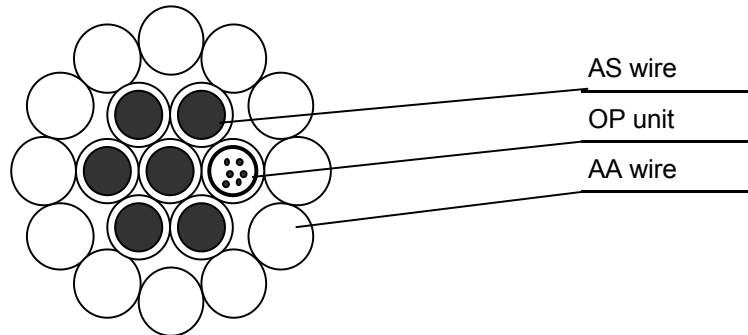
	Hunan Guanglian Photoelectricity Technologies	Serial No:	GL20160216
	OPGW Cable Specifications	Bid No:	OPGW

Cable Type: OPGW-48B1-154 [90.8;189.6]

Cross Section:




Structure		Material	No	Material	No.	Material Dia.
	Fiber		G.652	48	G.655	0
Center	20.3%ASwire		1			Diameter: 3.30 mm
Layer1	20.3%ASwire		5	AA wire	0	Diameter: 3.30 mm
		SUS Tube	1	Fibers(all tube)	48	Tube-Dia: 3.20 mm
Layer2	20.3%ASwire		0	AA wire	12	Diameter: 3.30 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	16.50 mm
	Cable Weight	640 kg/km
	Supporting Cross Section	154.0 mm ²
	Section of AS Wire	51.32 mm ²
	Section of AA Wire	102.64 mm ²
	Rate Tensile Strength (RTS)	90.8 kN
	Modulus of Elasticity (E-Modulus)	97.3 kN/mm ²
	Thermal Elongation Coefficient	17.5 ×10 ⁻⁶ /°C
	Permissible Maximum Working Stress (40% RTS)	235.9 N/mm ²
	Everyday Stress (EDS) (18%~25% RTS)	106.1 ~147.4 N/mm ²
	Ultimate Exceptional Stress (70% RTS)	412.8 N/mm ²
	DC Resistance	0.271 Ω/km
	Short Time Current (0.3s, 40°C~200°C)	25.1 kA
	Short Time Current Capacity I ² t	189.6 kA ² S
Minimum Bending Radiu Installation:	330 mm	
Oprating:	247 mm	
Ratio between Pull and Weight	14.5 km	
Temperature Range:	Installation	-10°C ~ +50 °C
	Transportation and Operation	-40°C ~ +80 °C

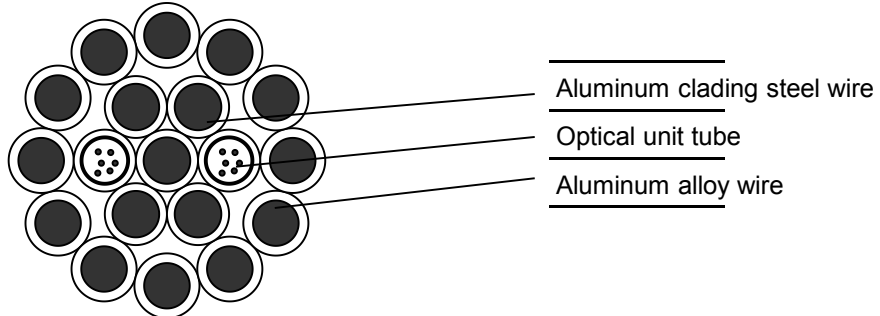
Remarks: All Sizes and Values are Nominal Values

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	Hunan Guanglian Photoelectricity Technologies	Serial No:	GL20170104
	OPGW Cable Specifications	Bid No:	OPGW

Cable Type: OPGW-72B1-121 [123.8;85.8]

Cross Section:




Structure		Name	No	Name	No	Material Dia.	
		Fiber	G.652	72	G.655	0	
	Center	27%AS	1			Diameter	3.10 mm
	1st layer	27%AS	4	AA wire	0	Diameter	3.00 mm
		SUS tube	2	Fiber counts	72	Diameter	3.00 mm
	2nd layer	27%AS	12	AA wire	0	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	15.10 mm
	Cable Weight	753 kg/km
	Supporting Cross Section	120.6 mm ²
	Section of AS Wire	120.65 mm ²
	Section of AA Wire	0.00 mm ²
	Rate Tensile Strength (RTS)	123.8 kN
	Modulus of Elasticity (E-Modulus)	140.0 kN/mm ²
	Thermal Elongation Coefficient	13.4 ×10 ⁻⁶ /°C
	Permissible Maximum Working Stress (40% RTS)	410.4 N/mm ²
	Everyday Stress (EDS) (18%~25% RTS)	184.7 ~256.5 N/mm ²
	Ultimate Exceptional Stress (70% RTS)	718.2 N/mm ²
	DC Resistance	0.538 Ω/km
	Short Time Current (1s, 40°C~200°C)	18.5 kA
	Short Time Current Capacity I ² t	85.8 kA ² S
	Minimum Bending Radius Installation:	302 mm
Oprating:	226 mm	
Ratio between Pull and Weight	16.8 km	
Temperature Range:	Installation	-10°C ~ +50 °C
	Transportation and Operation	-40°C ~ +80 °C

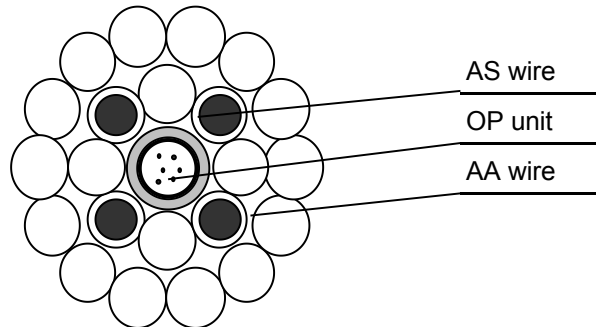
Remarks: All Sizes and Values are Nominal Values

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	Hunan Guanglian Photoelectricity Technologies	Serial No:	GL20160701
	OPGW Cable Specifications		Bid No:

Cable Type: OPGW-48B1-220 [72.5;387.4]

Cross Section:




Structure	Name	No	Name	No	Material Dia.
	Fiber	G.652D	48	G.655	0
Center	SUS Tube/AL-Tube	1			Tube-Dia. 3.8/5.8 mm
Layer1	40% AS wire	4	AA wire	4	Diameter 3.45 mm
Layer2			AA wire	14	Diameter 3.45 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	19.6 mm
	Cable Weight	700 kg/km
	Supporting Cross Section	220.7 mm ²
	Section of AS Wire	37.39 mm ²
	Section of AA Wire	168.27 mm ²
	Section of AL tube	15.08 mm ²
	Ultimate Tensile Strength (UTS)	78.9 kN
	Rate Tensile Strength (RTS)	72.5 kN
	Modulus of Elasticity (E-Modulus)	71.8 kN/mm ²
	Thermal Elongation Coefficient	21.1 ×10 ⁻⁶ /°C
	Permissible Maximum Working Stress (40% RTS)	131.4 N/mm ²
	Everyday Stress (EDS) (18%~25% RTS)	59.1 ~82.1 N/mm ²
	Ultimate Exceptional Stress (70% RTS)	230.0 N/mm ²
	DC Resistance	0.156 Ω/km
	Short Time Current (1s, 20°C~200°C)	19.7 kA
Short Time Current Capacity I2t	387.4 kA2s	
Minimum Bending Radius: Installation:	490 mm	
Oprating:	294 mm	
Ratio between Pull and Weight	10.6 km	
Temperature Range:	Installation	-10°C ~ +50 °C
	Transportation and Operation	-40°C ~ +80 °C

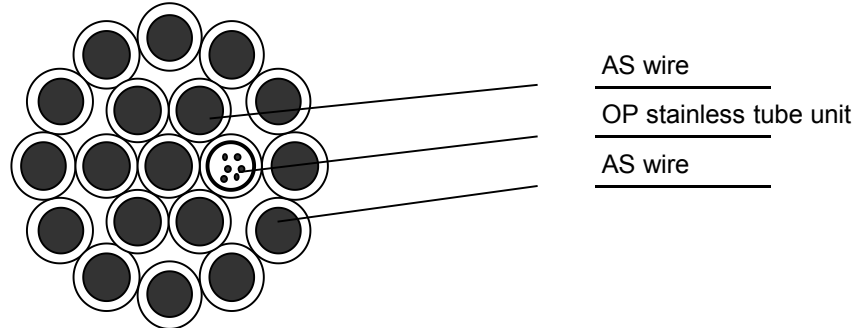
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	Hunan Guanglian Photoelectricity Technologies	Serial No:	GL20161212
	OPGW Cable Specifications	Bid No:	OPGW

Cable Type: OPGW-24B1-82 [52.6;40.0]

Cross Section:




Structure		Material	No	Material	No.	Material Dia.
	Fiber		G.652	24	G.655	0
Center		40%ASwire	1			Diameter: 2.40 mm
Layer1		40%ASwire	5	AA wire	0	Diameter: 2.40 mm
		SUS Tube	1	Fibers(all tube)	24	Tube-Dia: 2.40 mm
Layer2		40%ASwire	12	AA wire	0	Diameter: 2.40 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	12.00 mm
	Cable Weight	402 kg/km
	Supporting Cross Section	81.4 mm ²
	Section of AS Wire	81.43 mm ²
	Section of AA Wire	0.00 mm ²
	Rate Tensile Strength (RTS)	52.6 kN
	Modulus of Elasticity (E-Modulus)	109.0 kN/mm ²
	Thermal Elongation Coefficient	15.5 ×10 ⁻⁶ /°C
	Permissible Maximum Working Stress (40% RTS)	258.4 N/mm ²
	Everyday Stress (EDS) (18%~25% RTS)	116.3 ~161.5 N/mm ²
	Ultimate Exceptional Stress (70% RTS)	452.2 N/mm ²
	DC Resistance	0.538 Ω/km
	Short Time Current (0.5s, 50°C~180°C)	8.9 kA
	Short Time Current Capacity I ² t	40.0 kA ² S
	Minimum Bending Radiu Installation:	240 mm
Operating:	180 mm	
Ratio between Pull and Weight	13.4 km	
Temperature Range:	Installation	-10°C ~ +50 °C
	Transportation and Operation	-40°C ~ +80 °C

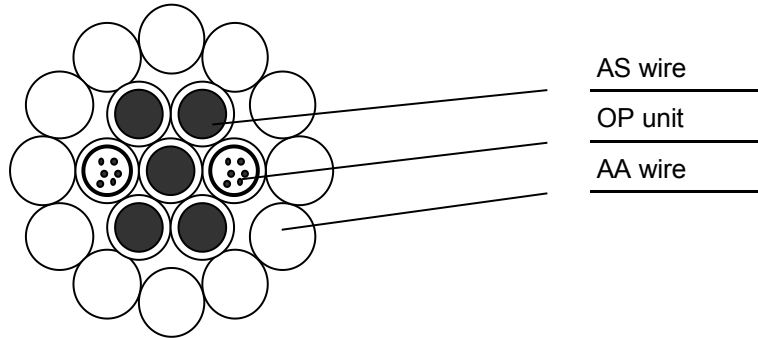
Remarks: All Sizes and Values are Nominal Values

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	Hunan Guanglian Photoelectricity Technologies	Serial No:	GL20160226
	OPGW Cable Specifications	Bid No:	OPGW

Cable Type: OPGW-48B1-105 [53.4;101.6]

Cross Section:



Structure	Fiber	Material	No	Material	No.	Material Dia.
			G.652	48	G.655	0
	Center	27%ASwire	1			Diameter: 2.80 mm
	Layer1	27%ASwire	4			Diameter: 2.80 mm
		SUS Tube	2	Fibers(all tube)	48	Tube-Dia: 2.70 mm
	Layer2			AA wire	12	Diameter: 2.80 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	14.00 mm
	Cable Weight	422 kg/km
	Supporting Cross Section	104.7 mm ²
	Section of AS Wire	30.79 mm ²
	Section of AA Wire	73.89 mm ²
	Ultimate Tensile Strength (UTS)	55.0 kN
	Rate Tensile Strength (RTS)	53.4 kN
	Modulus of Elasticity (E-Modulus)	87.1 kN/mm ²
	Thermal Elongation Coefficient	18.5 × 10 ⁻⁶ /°C
	Permissible Maximum Working Stress (40% RTS)	204.0 N/mm ²
	Everyday Stress (EDS) (18%~25% RTS)	91.8 ~127.5 N/mm ²
	Ultimate Exceptional Stress (70% RTS)	357.0 N/mm ²
	DC Resistance	0.370 Ω/km
	Short Time Current (0.25s, 20°C~200°C)	20.2 kA
	Short Time Current Capacity I _{2t}	101.6 kA ² S
Minimum Bending Radiu Installation:	280 mm	
Operating:	210 mm	
Ratio between Pull and Weight	12.9 km	
Temperature	Installation	-10°C ~ +50 °C
Range:	Transportation and Operation	-40°C ~ +80 °C

Remarks: All Sizes and Values are Nominal Values

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