

PRODUCT CATALOGUE

OPGW

OPTICAL FIBER GROUND WIRE





CONTENTS

Production Facilities

Test Facilities

Main Products

Reference Parameters

Supply Reference

PRODUCTION FACILITIES

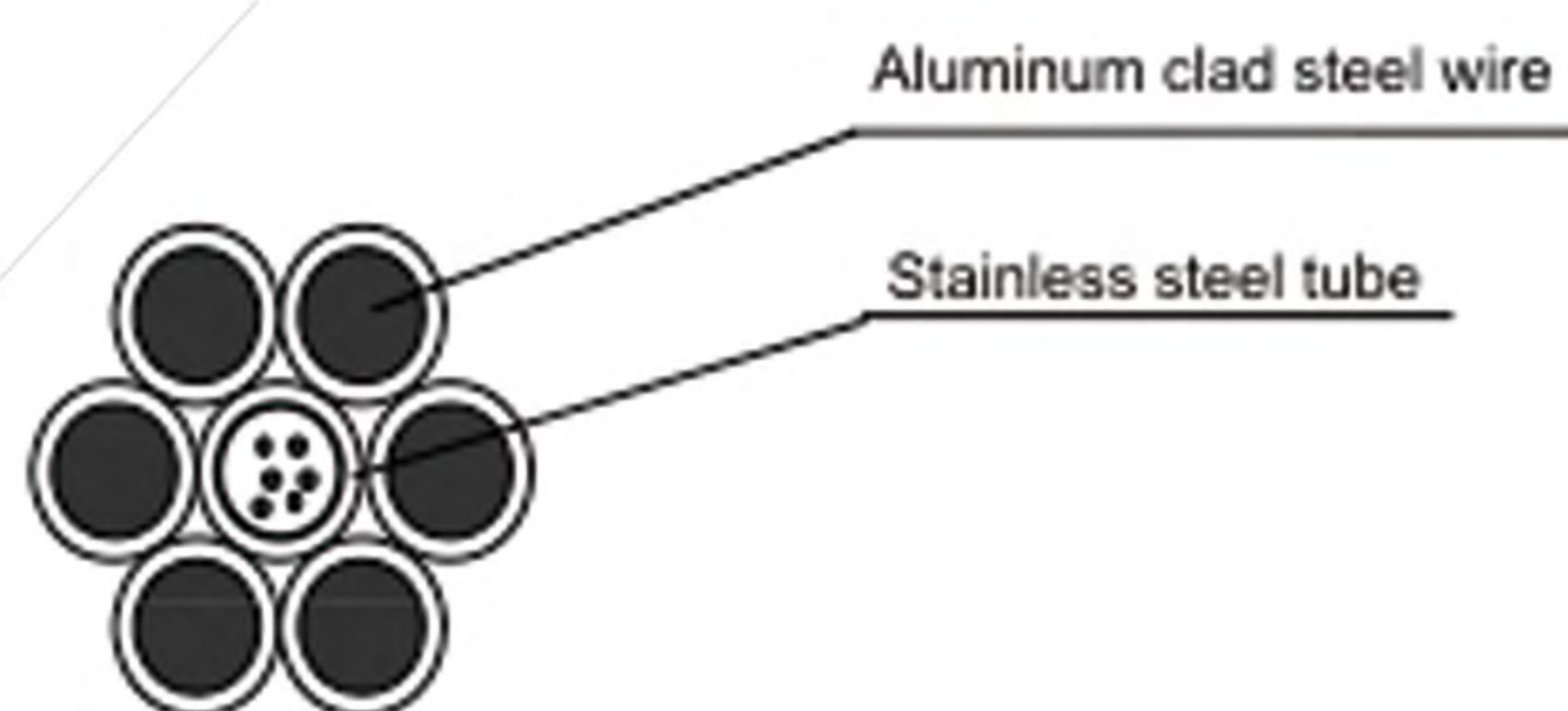


TEST FACILITIES

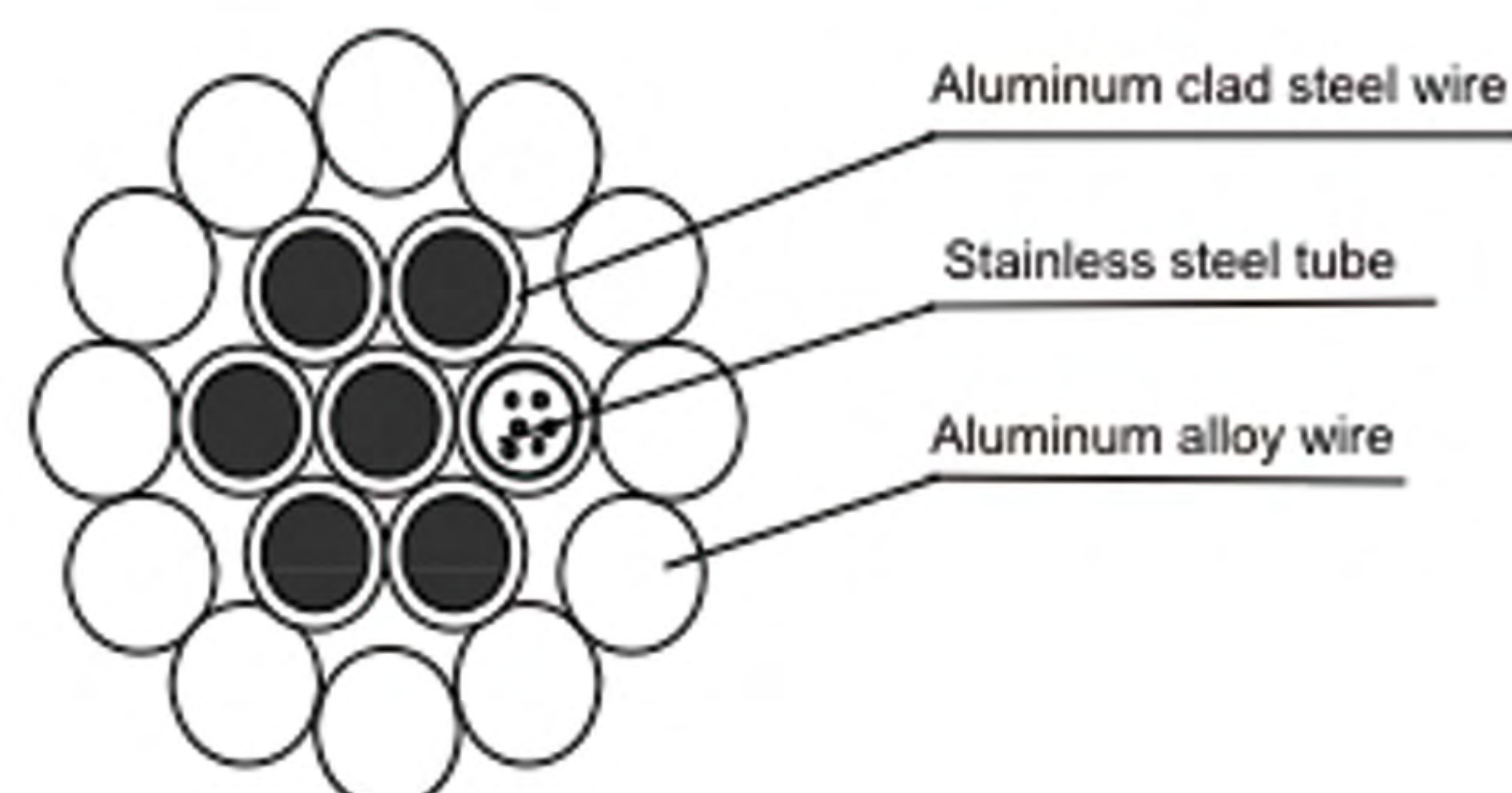


MAIN PRODUCTS

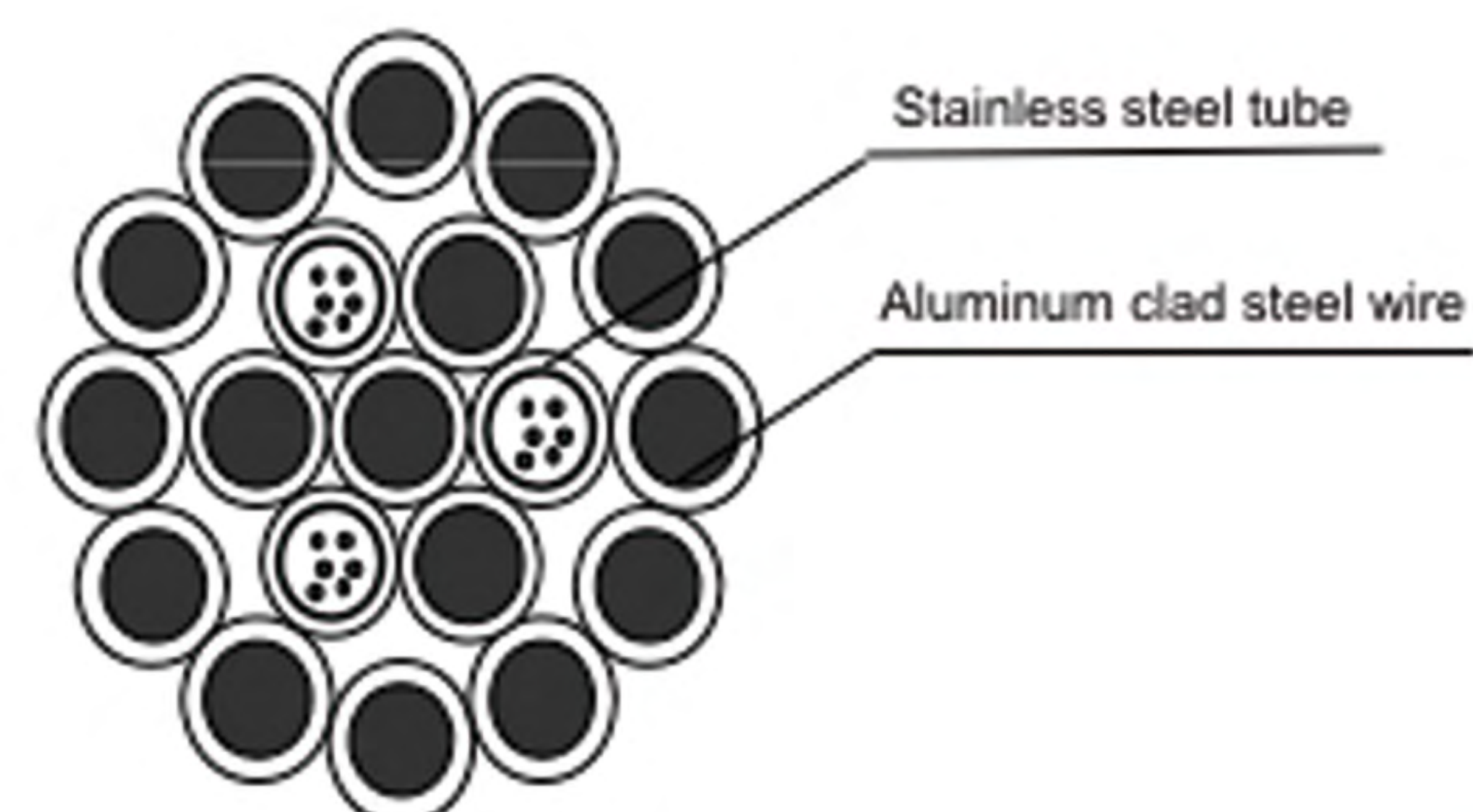
HOHAM CABLE
河漢電纜



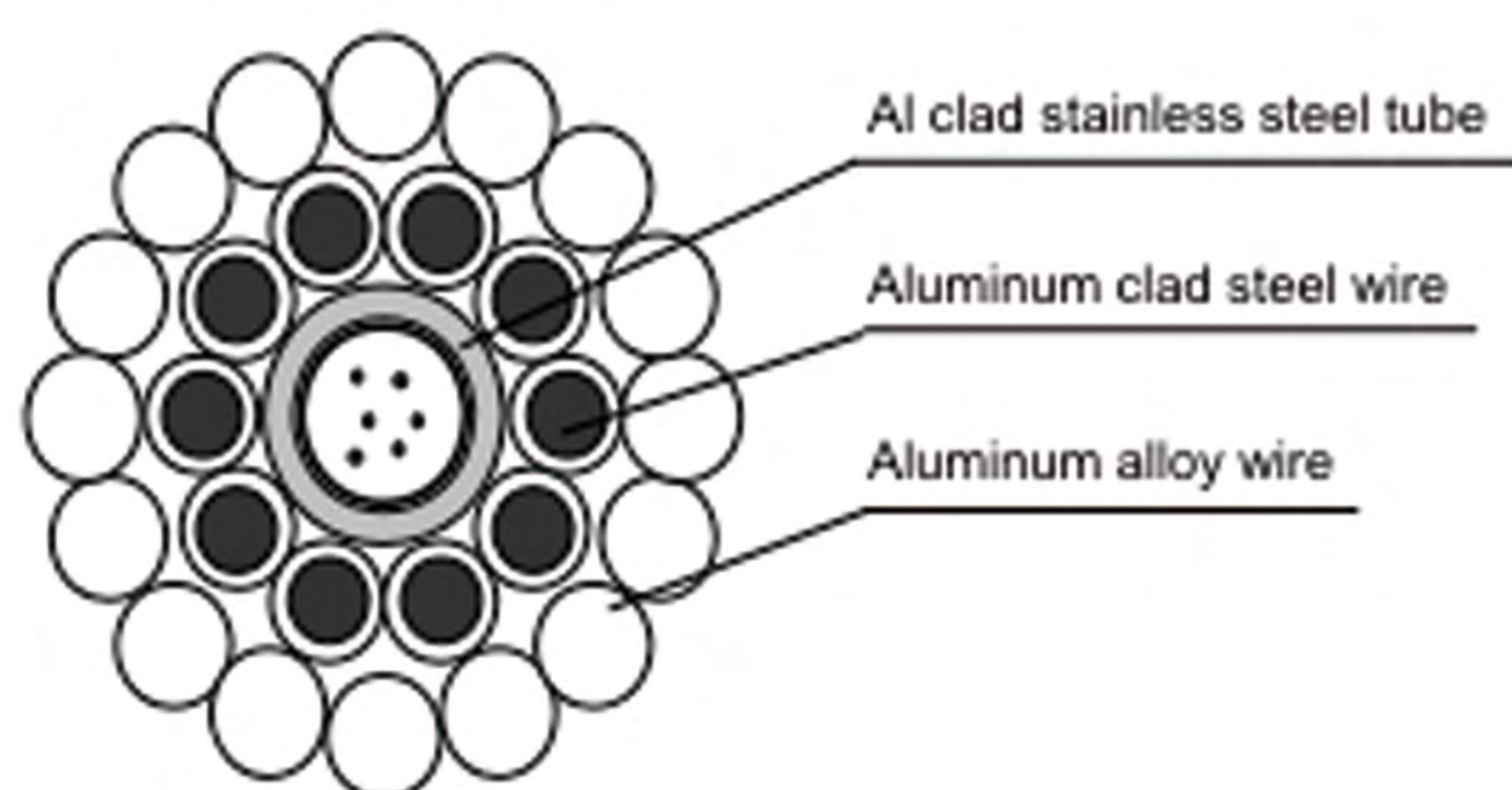
Center SST OPGW cable



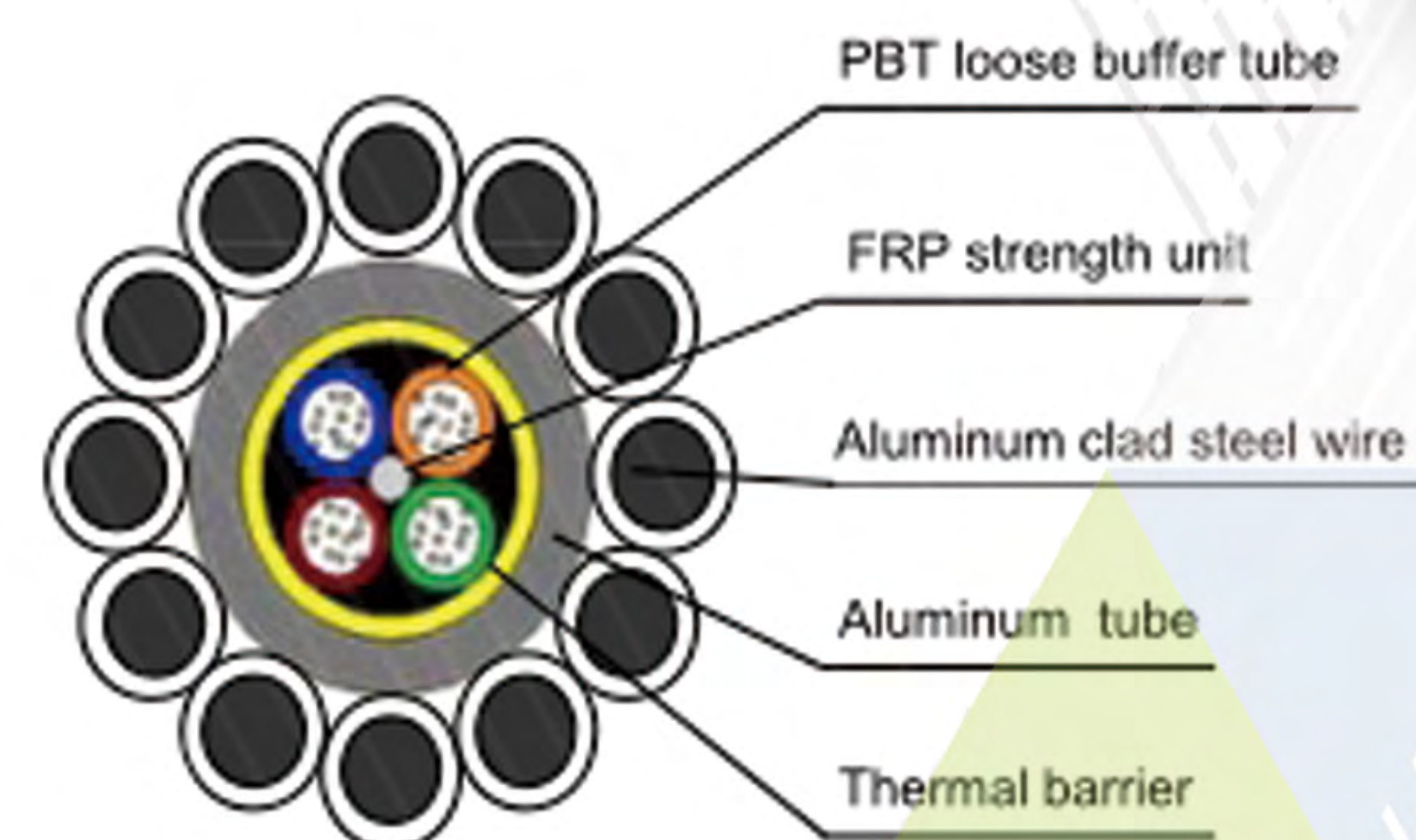
OPPC cable



Stranding SST OPGW cable



Al clad SST OPGW cable



Al clad PBT tube OPGW cable

REFERENCE PARAMETERS

◆Parameters of Aluminium Clad Stainless Steel Tube OPGW Cable

Type	Nos of fiber	Structure				Cross sectional area				Outer dia.	Unit weight	RTS	D.C. resistance of 20℃	Capacity of short circuit (40℃~200℃)	Elasticity modulus	Thermal elongation coefficient
		Center optical unit		Nos of wire/Dia.												
	core	SST dia.	Al tube dia.	ACS wire	AA wire	ACS wire	AA wire	Al tube	Total	mm	kg/km	kN	Ω/km	kA ² S	kN/mm ²	10 ⁻⁶ /℃
		mm	mm	Nos/mm	Nos/mm	mm ²	mm ²	mm ²	mm ²							
OPGW-LS-24B1-70 [73.0;27.9]	24	3.2	5.0	8/3.0-20AC	-	56.55	-	11.59	68.14	11.0	434	73.0	0.937	27.9	144.0	13.7
OPGW-LS-24B1-75 [77.9;32.9]	24	3.2	5.2	8/3.1-20AC	-	60.38	-	13.19	73.57	11.4	464	77.9	0.855	32.9	143.0	13.7
OPGW-LS-48B1-80 [82.1;42.7]	48	3.6	6.0	9/3.0-20AC	-	63.62	-	18.10	81.72	12.0	504	82.1	0.725	42.7	138.5	13.9
OPGW-LS-48B1-85 [91.0;43.4]	48	3.6	5.6	8/3.35-20AC	-	70.51	-	14.45	84.96	12.3	540	91.0	0.751	43.4	144.0	13.7
OPGW-LS-48B1-95 [83.8;60.2]	48	3.6	5.8	8/3.5-27AC	-	76.97	-	16.24	93.21	12.8	535	83.8	0.567	60.2	125.4	14.1
OPGW-LS-48B1-100 [88.6;69.1]	48	3.6	6.0	8/3.6-27AC	-	81.43	-	18.10	99.53	13.2	567	88.6	0.527	69.1	124.7	14.2
OPGW-LS-48B1-120 [99.7;107.0]	48	3.8	7.2	9/3.6-27AC	-	91.61	-	29.37	120.98	14.4	658	99.7	0.407	107.0	119.6	14.5
OPGW-LS-24B1-140[84.8;159.2]	24	3.2	5.2	9/2.6-20AC	15/2.6	47.78	79.64	13.19	140.61	15.6	604	84.8	0.295	159.2	97.1	17.3
OPGW-LS-48B1-160 [97.9;211.5]	48	3.6	5.6	9/2.8-20AC	15/2.8	55.42	92.36	14.45	162.23	16.8	694	97.9	0.256	211.5	97.3	17.3
OPGW-LS-48B1-190 [112.4;284.0]	48	3.6	6.0	9/3.0-20AC	15/3.0	63.62	106	18.10	187.75	18.0	796	112.4	0.221	284.0	97.0	17.3

◆Parameters of Aluminium Clad PBT Tube OPGW Cable

Type	Nos of fiber	Structure				Cross sectional area				Outer dia.	Unit weight	RTS	D.C. resistance of 20℃	Capacity of short circuit (40℃~200℃)	Elasticity modulus	Thermal elongation coefficient	
		Center optical unit		Nos of wire/Dia.													
		core	PBT tube core	Dia. Of Al tube	ACS wire	AA wire	ACS wire	AA wire	Al tube								Total
			Nos./mm	mm	Nos./mm	Nos./mm	mm ²	mm ²	mm ²								mm ²
OPGW-LP-24B1-80 [49.9;49.7]	24	4/2.0	7.5/5.4	12/2.5-30AC	-	58.90	-	21.28	80.18	12.5	423	49.9	0.567	49.7	111.8	15.0	
OPGW-LP-24B1-80 [64.1;47.8]	24	4/2.0	7.5/5.4	12/2.5-27AC	-	58.90	-	21.28	80.18	12.5	440	64.1	0.602	47.8	117.7	14.6	
OPGW-LP-24B1-80 [76.0;43.1]	24	4/2.0	7.5/5.4	12/2.5-20AC	-	58.90	-	21.28	80.18	12.5	481	76.0	0.695	43.1	133.9	14.1	
OPGW-LP-24B1-90 [57.4;60.3]	24	4/2.0	7.5/5.4	11/2.8-30AC	-	67.73	-	21.28	89.01	13.1	473	57.4	0.522	60.3	113.8	14.9	
OPGW-LP-24B1-90 [73.7;57.7]	24	4/2.0	7.5/5.4	11/2.8-27AC	-	67.73	-	21.28	89.01	13.1	493	73.7	0.556	57.7	119.9	14.5	
OPGW-LP-24B1-90 [87.4;51.6]	24	4/2.0	7.5/5.4	11/2.8-20AC	-	67.73	-	21.28	89.01	13.1	540	87.4	0.649	51.6	136.7	14.0	
OPGW-LP-24B1-100 [52.7;88.2]	24	4/2.0	7.5/5.4	10/3.2-40AC	-	80.42	-	21.28	101.7	13.9	466	52.7	0.386	88.2	97.9	16.4	
OPGW-LP-24B1-100 [68.2;77.2]	24	4/2.0	7.5/5.4	10/3.2-30AC	-	80.42	-	21.28	101.7	13.9	546	68.2	0.469	77.2	116.1	14.7	
OPGW-LP-24B1-100 [87.5;73.7]	24	4/2.0	7.5/5.4	10/3.2-27AC	-	80.42	-	21.28	101.7	13.9	569	87.5	0.501	73.7	122.4	14.3	
OPGW-LP-24B1-100 [103.8;65.2]	24	4/2.0	7.5/5.4	10/3.2-20AC	-	80.42	-	21.28	101.7	13.9	625	103.8	0.592	65.2	139.8	13.8	
OPGW-LP-48B1-95 [60.4;70.6]	48	4/2.2	8.2/6.0	12/2.75-30AC	-	71.27	-	24.54	96.81	13.7	502	60.4	0.478	70.6	112.5	15.0	
OPGW-LP-48B1-95 [77.6;67.7]	48	4/2.2	8.2/6.0	12/2.75-27AC	-	71.27	-	24.54	96.81	13.7	523	77.6	0.508	67.7	118.5	14.6	
OPGW-LP-48B1-95 [92.0;60.9]	48	4/2.2	8.2/6.0	12/2.75-20AC	-	71.27	-	24.54	96.81	13.7	573	92.0	0.589	60.9	134.9	14.1	
OPGW-LP-48B1-110 [54.4;99.3]	48	4/2.2	8.2/6.0	11/3.1-40AC	-	83.02	-	24.54	107.6	14.4	487	54.4	0.351	99.3	96.9	16.5	
OPGW-LP-48B1-110 [70.4;87.4]	48	4/2.2	8.2/6.0	11/3.1-30AC	-	83.02	-	24.54	107.6	14.4	569	70.4	0.436	87.4	114.7	14.8	
OPGW-LP-48B1-110 [90.4;83.6]	48	4/2.2	8.2/6.0	11/3.1-27AC	-	83.02	-	24.54	107.6	14.4	594	90.4	0.465	83.6	120.8	14.4	
OPGW-LP-48B1-110 [107.2;74.5]	48	4/2.2	8.2/6.0	11/3.1-20AC	-	83.02	-	24.54	107.6	14.4	651	107.2	0.545	74.5	137.8	13.9	
OPGW-LP-48B1-120 [63.0;124.0]	48	4/2.2	8.2/6.0	10/3.5-40AC	-	96.21	-	24.54	120.8	15.2	549	63.0	0.326	124.0	98.2	16.4	
OPGW-LP-48B1-120 [81.6;108.4]	48	4/2.2	8.2/6.0	10/3.5-30AC	-	96.21	-	24.54	120.8	15.2	644	81.6	0.397	108.4	116.6	14.7	
OPGW-LP-48B1-120 [104.7;103.4]	48	4/2.2	8.2/6.0	10/3.5-27AC	-	96.21	-	24.54	120.8	15.2	673	104.7	0.425	103.4	122.9	14.3	
OPGW-LP-48B1-120 [124.2;91.2]	48	4/2.2	8.2/6.0	10/3.5-20AC	-	96.21	-	24.54	120.8	15.2	739	124.2	0.503	91.2	140.5	13.8	

REFERENCE PARAMETERS

◆Parameters of OPPC Cable

Type	Match conductor	Structure					Cross sectional area			Outer dia.	Unit weight	RTS	D.C. resistance of 20℃	Ampacity			Elasticity modulus	Thermal elongation coefficient
		Center ACS	1st layer		2nd layer	3rd layer								40℃~70℃	40℃~80℃	40℃~90℃		
			SST optical unit	ACS wire			Al wire	Al wire										
									Nos/mm									
OPPC-16B1-85/25	LQJ-95/20	1/2.4-20AC	1/2.3-16B1	5/2.3-20AC	9/3.5	-	25.30	86.59	111.9	14.0	430	40.9	0.303	233	277	319	80.0	18.4
OPPC-36B1-90/50	LQJ-95/55	1/3.4-14AC	1/3.2-24B1	5/3.3-14AC	13/3.0	-	51.84	91.89	143.7	16.0	650	85.5	0.277	230	270	301	97.2	16.1
OPPC-16B1-120/20	LQJ-120/20	1/2.4-20AC	1/2.3-24B1	5/2.3-20AC	8/4.2	-	25.30	110.84	136.1	15.4	490	45.5	0.242	285	348	399	75.7	19.0
OPPC-24B1-120/25	LQJ-120/25	1/2.5-20AC	1/2.4-24B1	5/2.4-20AC	8/4.35	-	27.53	118.89	146.4	16.0	530	49.3	0.225	265	315	365	75.9	19.0
OPPC-16B1-150/25	LQJ-150/25	1/2.4-20AC	1/2.3-16B1	5/2.3-20AC	11/2.6	17/2.6	25.30	148.66	174	17.4	595	54.5	0.184	331	407	469	71.4	19.7
OPPC-24B1-150/30	LQJ-150/35	1/2.6-14AC	1/2.5-24B1	5/2.5-14AC	12/2.5	18/2.5	29.85	147.26	177.1	17.6	640	65.7	0.188	330	405	466	75.2	18.8
OPPC-16B1-185/25	LQJ-185/25	1/2.4-20AC	1/2.3-16B1	5/2.3-20AC	10/3.0	16/3.0	25.30	183.78	209.1	19.0	695	65.8	0.150	379	468	540	68.8	20.2
OPPC-24B1-185/40	LQJ-185/45	1/2.85-20AC	1/2.7-24B1	5/2.8-20AC	12/2.8	18/2.8	37.17	184.73	221.9	19.65	795	79.7	0.147	379	469	541	73.8	19.3
OPPC-24B1-240/25	LQJ-240/30	1/2.5-20AC	1/2.4-24B1	5/2.4-20AC	9/3.6	15/3.6	27.53	244.29	271.8	21.7	885	76.6	0.114	445	552	639	66.7	20.5

◆Parameters of Center Stainless Steel Tube OPGW Cable

Type	Structure(wire*dia/conductivity)		Cross sectional area				Dia mm	Unit length Weight Kg/km	RTS kN	D.C. resistance Ω/km	Capacity of short circuit KA ² S	Elasticity modulus Gpa	Thermal expansion coefficient mm	Strength to Weight Ratio km
	Center optical unit	Outer layer	AA	Nos of fiber	AS	Total								
OPGW-24B1-42[54;8.4]	1 × 3.0/24B1	6 × 3.0/20AS	0	24B1	42.41	42	9	309	54	2.03	8.4	162	13	17.8
OPGW-24B1-42[43.5;10.6]		6 × 3.0/27AS	0	24B1	42.41	42	9	281	43.5	1.53	10.6	140	13.4	15.8
OPGW-24B1-42[35.5;11.5]		6 × 3.0/30AS	0	24B1	42.41	42	9	268	35.5	1.37	11.5	132	13.8	13.5
OPGW-30B1-48[61.4;10.9]	1 × 3.2/30B1	6 × 3.2/20AS	0	30B1	48.25	48	9.6	348	61.4	1.78	10.9	162	13	18.0
OPGW-30B1-48[49.5;13.7]		6 × 3.2/27AS	0	30B1	48.25	48	9.6	315	49.5	1.34	13.7	140	13.4	16.0
OPGW-30B1-48[40.3;14.9]		6 × 3.0/30AS	0	30B1	48.25	48	9.6	3.1	40.3	1.21	14.9	132	13.8	1326.5
OPGW-30B1-51[63.9;12.3]	1 × 3.3/30B1	6 × 3.3/20AS	0	30B1	51.32	51	9.9	368	63.9	1.68	12.3	162	13	17.7
OPGW-30B1-51[52.7;15.5]		6 × 3.3/27AS	0	30B1	51.32	51	9.9	333	52.7	1.26	15.5	140	13.4	16.1
OPGW-30B1-51[42.9;16.8]		6 × 3.3/30AS	0	30B1	51.32	51	9.9	315	42.9	1.14	16.8	132	13.8	13.8
OPGW-30B1-51[33.2;20.8]		6 × 3.3/40AS	0	30B1	51.32	51	9.9	268	33.2	0.85	20.8	109	15.5	12.6
OPGW-36B1-54[67.8;13.9]	1 × 3.4/36B1	6 × 3.4/20AS	0	36B1	54.48	54	10.2	389	67.8	1.58	13.9	162	13	17.8
OPGW-36B1-54[55.9;17.5]		6 × 3.4/27AS	0	36B1	54.48	54	10.2	352	55.9	1.19	17.5	140	13.4	16.2
OPGW-36B1-54[45.5;19]		6 × 3.4/30AS	0	36B1	54.48	54	10.2	336	45.5	1.07	19	132	13.8	13.8
OPGW-36B1-54[35.2;23.4]		6 × 3.4/40AS	0	36B1	54.48	54	10.2	283	35.2	0.8	23.4	109	15.5	12.7
OPGW-40B1-58[69.6;15.6]	1 × 3.5/40B1	6 × 3.5/20AS	0	40B1	57.73	58	10.5	410	69.6	1.49	15.6	162	13	17.3
OPGW-40B1-58[59.2;19.6]		6 × 3.5/27AS	0	40B1	57.73	58	10.5	371	59.2	1.12	19.6	140	13.4	16.3
OPGW-40B1-58[48.3;21.3]		6 × 3.5/30AS	0	40B1	57.73	58	10.5	354	48.3	1.01	21.3	132	13.8	13.9
OPGW-40B1-58[37.3;26.3]		6 × 3.5/40AS	0	40B1	57.73	58	10.5	298	37.3	0.76	26.3	109	15.5	12.8
OPGW-48B1-61[73.7;17.5]	1 × 3.6/48B1	6 × 3.6/20AS	0	48B1	61.07	61	10.8	432	73.7	1.41	17.5	162	13	17.4
OPGW-48B1-61[62.7;22]		6 × 3.6/27AS	0	48B1	61.07	61	10.8	391	62.7	1.06	22	140	13.4	16.4
OPGW-48B1-61[51.1;23.8]		6 × 3.6/30AS	0	48B1	61.07	61	10.8	373	51.1	0.95	23.8	132	13.8	14.0
OPGW-48B1-61[39.5;29.5]		6 × 3.6/40AS	0	48B1	61.07	61	10.8	313	39.5	0.72	29.5	109	15.5	12.9
OPGW-50B1-65[76.6;19.5]	1 × 3.7/50B1	6 × 3.7/20AS	0	50B1	64.51	65	11.1	455	76.6	1.33	19.5	162	13	17.2
OPGW-50B1-65[66.2;24.5]		6 × 3.7/27AS	0	50B1	64.51	65	11.1	411	66.2	1	24.5	140	13.4	16.4
OPGW-50B1-65[53.9;26.6]		6 × 3.7/30AS	0	50B1	64.51	65	11.1	392	53.9	0.9	26.6	132	13.8	14.0
OPGW-50B1-65[41.7;32.9]		6 × 3.7/40AS	0	50B1	64.51	65	11.1	329	41.7	0.68	32.9	109	15.5	12.9
OPGW-54B1-68[80.8;21.7]	1 × 3.8/54B1	6 × 3.8/20AS	0	54B1	68.05	68	11.4	478	80.8	1.26	21.7	162	13	17.2
OPGW-54B1-68[69.8;27.3]		6 × 3.8/27AS	0	54B1	68.05	68	11.4	432	69.8	0.95	27.3	140	13.4	16.5
OPGW-54B1-68[56.9;29.6]		6 × 3.8/30AS	0	54B1	68.05	68	11.4	412	56.9	0.86	29.6	132	13.8	14.1
OPGW-54B1-68[44;36.6]		6 × 3.8/40AS	0	54B1	68.05	68	11.4	346	44	0.64	36.6	109	15.5	13.0
OPGW-60B1-75[86.7;26.6]	1 × 4.0/60B1	6 × 4.0/20AS	0	60B1	75.4	75	12	527	86.7	1.14	26.6	162	13	16.8
OPGW-60B1-75[77.4;33.5]		6 × 4.0/27AS	0	60B1	75.4	75	12	476	77.4	0.86	33.5	140	13.4	16.6
OPGW-60B1-75[63;36.3]		6 × 4.0/30AS	0	60B1	75.4	75	12	453	63	0.77	36.3	132	13.8	14.2
OPGW-60B1-75[48.7;44.9]		6 × 4.0/40AS	0	60B1	75.4	75	12	380	48.7	0.58	44.9	109	15.5	13.1

REFERENCE PARAMETERS

Parameters of Stranding Stainless Steel Tube OPGW Cable◆

Type	Structure(wire*dia/conductivity)					Cross sectional area			Dia mm	Unit length Weight Kg/km	RTS KN	D.C. resistance Ω/km	Capacity of short circuit KA ² S	Elasticity modulus Gpa	Thermal expansion coefficient ×10 ⁻⁶ /℃	Strength to Weight Ratio km
	Center	Inner layer	Steel tube optical unit	Nos of fiber	Outer layer	AA	AS	Total								
OPGW-24B1-103[103;52.5]	1×2.5/27AS	5×2.4/27AS	1×2.4/24B1	24B1	10×3.1/27AS	0	103	103	13.5	640	105.7	0.63	62.5	140	13.4	16.9
OPGW-24B1-103[103;75.9]	1×2.5/20AS	5×2.4/20AS		24B1	10×3.1/40AS	0	103	103	13.5	552	83.8	0.49	75.9	123	14.6	15.5
OPGW-24B1-103[103;87.4]	1×2.5/20AS	5×2.4/20AS		24B1	10×3.1/AA	75.5	27.5	103	13.5	406	57.3	0.39	87.4	91	18.2	14.4
OPGW-24B1-89[89;46.4]	1×2.6/27AS	5×2.5/27AS	1×2.5/24B1	24B1	12×2.5/27AS	0	88.8	89	12.6	545	91.1	0.73	46.4	140	13.4	17.1
OPGW-24B1-89[89;50.3]	1×2.6/30AS	5×2.5/30AS		24B1	12×2.5/30AS	0	88.8	89	12.6	518	74.2	0.66	50.3	132	13.8	14.6
OPGW-24B1-89[89;62.9]	1×2.6/20AS	5×2.5/20AS		24B1	12×2.5/AA	58.9	29.9	89	12.6	376	55.4	0.47	62.9	98	17.4	15.0
OPGW-24B1-98[98;60.9]	1×2.6/30AS	5×2.5/30AS	1×2.5/24B1	24B1	11×2.8/30AS	0	97.6	98	13.2	567	81.6	0.6	60.9	132	13.8	14.7
OPGW-24B1-98[98;77.1]	1×2.6/20AS	5×2.5/20AS		24B1	11×2.8/AA	67.7	29.9	98	13.2	371	58	0.42	77.1	95	17.8	16.0
OPGW-24B1-110[110;71.7]	1×2.6/27AS	5×2.5/27AS	1×2.5/24B1	24B1	10×3.2/27AS	0	110.3	110	14	672	113.1	0.59	71.7	140	13.4	17.2
OPGW-24B1-110[110;77.7]	1×2.6/30AS	5×2.5/30AS		24B1	10×3.2/30AS	0	110.3	110	14	639	92.2	0.53	77.7	132	13.8	14.7
OPGW-24B1-110[110;86.9]	1×2.6/20AS	5×2.5/20AS		24B1	10×3.2/40AS	0	110.3	110	14	590	90	0.46	86.9	123	14.6	15.6
OPGW-24B1-110[110;100]	1×2.6/20AS	5×2.5/20AS		24B1	10×3.2/AA	80.4	29.9	110	14	434	61.7	0.36	100	91	18.2	14.5
OPGW-28B1-112[112;80.6]	1×2.75/30AS	5×2.7/30AS	1×2.7/28B1	28B1	11×3.0/30AS	0	112.3	112	14.15	650	93.9	0.52	80.6	132	13.8	14.7
OPGW-28B1-112[112;88.7]	1×2.75/20AS	5×2.7/20AS		28B1	11×3.0/40AS	0	112.3	112	14.15	609	94.2	0.46	88.7	125	14.5	15.8
OPGW-28B1-112[112;102.1]	1×2.75/20AS	5×2.7/20AS		28B1	11×3.0/AA	77.8	34.6	112	14.15	458	66.9	0.36	102.1	95	17.7	14.9
OPGW-28B1-103[103;68.4]	1×2.8/30AS	5×2.7/30AS	1×2.7/28B1	28B1	12×2.7/30AS	0	103.5	103	13.6	601	86.5	0.56	68.4	132	13.8	14.7
OPGW-28B1-103[103;85.6]	1×2.8/20AS	5×2.7/20AS		28B1	12×2.7/AA	68.7	34.8	103	13.6	435	64.6	0.4	85.6	98	17.4	15.2
OPGW-28B1-131[131;110]	1×2.85/30AS	5×2.7/30AS	1×2.7/28B1	28B1	10×3.5/30AS	0	131.2	131	15.25	756	109.7	0.45	110	132	13.8	14.8
OPGW-28B1-131[131;123.2]	1×2.85/20AS	5×2.7/20AS		28B1	10×3.5/40AS	0	131.2	131	15.25	697	106.7	0.39	123.2	123	14.6	15.6
OPGW-28B1-131[131;141.8]	1×2.85/20AS	5×2.7/20AS		28B1	10×3.5/AA	96.2	35	131	15.25	511	72.9	0.3	141.8	91	18.2	14.6
OPGW-28B1-120[120;92.3]	1×2.85/30AS	5×2.8/30AS	1×2.7/28B1	28B1	11×3.1/30AS	0	120.2	120	14.65	706	100.5	0.49	92.3	132	13.8	14.5
OPGW-28B1-120[120;114.1]	1×2.85/40AS	5×2.8/40AS		28B1	11×3.1/40AS	0	120.2	120	14.65	587	77.6	0.36	114.1	109	15.5	13.5
OPGW-28B1-120[120;116.8]	1×2.85/20AS	5×2.8/20AS		28B1	11×3.1/AA	23	37.2	120	14.65	497	71.8	0.34	116.8	95	17.7	14.7
OPGW-28B1-126[126;102]	1×3.0/30AS	5×2.8/30AS	1×2.7/28B1	28B1	11×3.2/30AS	0	126.3	126	15	729	105.6	0.46	102	132	13.8	14.8
OPGW-28B1-126[126;126]	1×3.0/40AS	5×2.8/40AS		28B1	11×3.2/40AS	0	126.3	126	15	606	81.6	0.35	126	109	15.5	13.7
OPGW-28B1-126[126;129.6]	1×3.0/20AS	5×2.8/20AS		28B1	11×3.2/AA	88.5	37.9	126	15	509	74.3	0.32	129.6	94	17.8	14.9
OPGW-36B1-128[128;105]	1×3.2/30AS	5×3.0/30AS	1×3.0/36B1	36B1	12×3.0/30AS	0	128.2	128	15.2	739	107.2	0.46	105	132	13.8	14.8
OPGW-36B1-128[128;129.8]	1×3.2/40AS	5×3.0/40AS		36B1	12×3.0/40AS	0	128.2	128	15.2	615	82.8	0.34	129.8	109	15.5	13.7
OPGW-36B1-128[128;131.2]	1×3.2/20AS	5×3.0/20AS		36B1	12×3.0/AA	84.8	43.4	128	15.2	535	80.3	0.33	131.2	98	17.4	15.3
OPGW-36B1-143[143;162.1]	1×3.2/40AS	5×3.0/40AS	1×3.0/36B1	36B1	11×3.4/40AS	0	143.3	143	16	685	92.5	0.31	162.1	109	15.5	13.8
OPGW-36B1-143[143;166.4]	1×3.2/20AS	5×3.0/20AS		36B1	11×3.4/AA	99.9	43.4	143	16	576	84.7	0.28	166.4	94	17.8	15.0
OPGW-36B1-136[136;118.8]	1×3.2/30AS	5×3.1/30AS	1×3.0/36B1	36B1	12×3.1/30AS	0	136.4	136	15.6	785	114	0.43	118.8	132	13.8	14.8
OPGW-36B1-136[136;146.8]	1×3.2/40AS	5×3.1/40AS		36B1	12×3.1/40AS	0	136.4	136	15.6	653	88.1	0.32	146.8	109	15.5	13.8
OPGW-48B1-145[145;134.9]	1×3.3/30AS	5×3.2/30AS	1×3.2/48B1	48B1	12×3.2/30AS	0	145.3	145	16.1	835	121.4	0.4	134.9	132	13.8	14.8
OPGW-48B1-145[145;166.6]	1×3.3/40AS	5×3.2/40AS		48B1	12×3.2/40AS	0	145.3	145	16.1	694	93.8	0.3	166.6	109	15.5	13.8
OPGW-48B1-155[155;189.8]	1×3.5/40AS	5×3.3/40AS	1×3.2/48B1	48B1	12×3.3/40AS	0	155	155	16.7	739	100.1	0.28	189.8	109	15.5	13.8
OPGW-48B1-155[155;191.8]	1×3.5/20AS	5×3.3/20AS		48B1	12×3.3/AA	102.6	52.4	155	16.7	643	96.1	0.27	191.8	98	17.4	15.1
OPGW-48B1-165[165;173]	1×3.6/30AS	5×3.4/30AS	1×3.4/48B1	48B1	12×3.4/30AS	0	164.5	165	17.2	943	137.5	0.36	173	132	13.8	14.9
OPGW-48B1-165[165;213.7]	1×3.6/40AS	5×3.4/40AS		48B1	12×3.4/40AS	0	164.5	165	17.2	783	106.3	0.27	213.7	109	15.5	13.9
OPGW-48B1-174[174;194.2]	1×3.7/30AS	5×3.5/30AS	1×3.4/48B1	48B1	12×3.5/30AS	0	174.3	174	17.7	992	145.7	0.34	194.2	132	13.8	15.0
OPGW-48B1-174[174;239.9]	1×3.7/40AS	5×3.5/40AS		48B1	12×3.5/40AS	0	174.3	174	17.7	824	112.6	0.25	239.9	109	15.5	13.9
OPGW-48B1-174[174;242.5]	1×3.7/20AS	5×3.5/20AS		48B1	12×3.5/AA	115.5	58.9	174	17.7	712	104.9	0.24	242.5	98	17.4	15.0

REFERENCE PARAMETERS

◆OPGW Technical Parameters Table of National Electrical Network

No.	Product Number	Technical parameter													
		Cable Structure	Max nos of fiber (core)	ACS cross sectional area (mm ²)	AA cross sectional area (mm ²)	Outer dia (mm)	Unit length Weight of our company (kg/km)	Unit length Weight (kg/km)	RTS (kN)	D.C. resistance of 20℃ (Ω/km)	Capacity of short circuit of our company (40℃~200℃) (kA ² .s)	Capacity of short circuit (40℃~200℃) (kA ² .s)	Elasticity modulus Gpa	Thermal elongation coefficient mm	Strength to Weight Ratio
1	OPGW-9-40-1	6/3.0/20AS, optical unit1/3.0	24	≈40		9	309	≈304	≥51	≤2.10	8.4	≥9	162	13	17.80
2	OPGW-10-50-1	6/3.2/20AS, optical unit1/3.2	24	≈50		9.6	348	≈345	≥58	≤1.82	10.9	≥11.5	162	13	18.00
3	OPGW-11-70-1	6/3.8/20AS, optical unit1/3.8	48	≈70		11.4	478	≈475	≥77	≤1.30	21.7	≥24	162	13	17.20
4	OPGW-11-70-2	6/3.8/40AS, optical unit1/3.8	48	≈70		11.4	346	≈340	≥42	≤0.70	36.6	≥38	109	15.5	13.00
5	OPGW-13-90-1	1/2.6/20AS+4/2.5/20AS+11/2.8/20AS, optical unit2/2.5	48	≈90		13.2	651	≈641	≥112	≤0.98	40.2	≥45	162	13	17.83
6	OPGW-13-90-2	1/2.6/40AS+4/2.5/40AS+11/2.8/40AS, optical unit2/2.5	48	≈90		13.2	470	≈457	≥57	≤0.52	67.8	≥67	109	15.5	12.73
7	OPGW-13-100-1	1/2.6/20AS+5/2.5/20AS+11/2.8/20AS, optical unit1/2.5	24	≈100		13.2	663	≈674	≥118	≤0.93	44.6	≥50	162	13	17.86
8	OPGW-13-100-2	1/2.6/40AS+5/2.5/40AS+11/2.8/40AS, optical unit1/2.5	24	≈100		13.2	473	≈479	≥60	≤0.49	75.2	≥74	109	15.5	12.78
9	OPGW-14-110-1	1/2.6/20AS+5/2.5/20AS+10/3.2/20AS, optical unit 1/2.5	24	≈110		14	747	≈760	≥133	≤0.83	56.9	≥63	162	13	17.86
10	OPGW-14-110-2	1/2.8/20AS+5/2.7/20AS+11/3.05/20AS, optical unit1/2.6	24	≈110		14.3	779	≈791	≥140	≤0.80	62	≥68	162	13	18.06
11	OPGW-14-110-3	1/2.9/20AS+5/2.8/20AS+12/2.8/AA, optical unit1/2.7	24	≈37	≈74	14.1	466	≈473	≥67	≤0.40	98.9	≥95	93.8	17.9	14.45
12	OPGW-14.6-120-1	1/3.0/20AS+5/2.9/20AS+12/2.9/20AS, optical unit1/2.8	36	≈120		14.6	807	≈820	≥145	≤0.77	66.7	≥73	162	13	18.04
13	OPGW-14.6-120-2	1/3.0/30AS+5/2.9/30AS+12/2.9/30AS, optical unit1/2.8	36	≈120		14.6	690	≈700	≥95	≤0.55	91	≥98	132	13.8	13.85
14	OPGW-14.6-120-3	1/3.0/40AS+5/2.9/40AS+12/2.9/40AS, optical unit1/2.8	36	≈120		14.6	574	≈582	≥74	≤0.42	112	≥110	109	15.5	12.97
15	OPGW-15-120-1	1/3.2/20AS+4/3.0/20AS+12/3.0/20AS, optical unit 2/2.9	72	≈120		15.2	838	≈832	≥147	≤0.76	68.7	≥76	162	13	18.03
16	OPGW-15-120-2	1/3.2/30AS+4/3.0/30AS+12/3.0/30AS, optical unit 2/2.9	72	≈120		15.2	720	≈711	≥96	≤0.53	93.8	≥101	132	13.8	13.78
17	OPGW-15-120-3	1/3.2/40AS+4/3.0/40AS+12/3.0/40AS, optical unit 2/2.9	72	≈120		15.2	602	≈591	≥74	≤0.40		≥114	109	15.5	12.78

REFERENCE PARAMETERS

18	OPGW-15-130-1	1/3.2/20AS+ 5/3.0/20AS+ 12/3.0/20AS, optical unit 1/2.9	36	~130		15.2	865	≤879	≥155	≤0.72	76.9	≥85	162	13	17.99
19	OPGW-15-130-2	1/3.2/30AS+ 5/3.0/30AS+ 12/3.0/30AS, optical unit 1/2.9	36	~130		15.2	739	≤751	≥102	≤0.50	105	≥114	132	13.8	13.86
20	OPGW-15-130-3	1/3.2/40AS+ 5/3.0/40AS+ 12/3.0/40AS, optical unit 1/2.9	36	~130		15.2	615	≤624	≥79	≤0.40	129.8	≥137	109	15.5	12.92
21	OPGW-16-140-1	1/3.3/20AS+ 5/3.2/20AS+ 12/3.2/20AS, optical unit 1/3.1	36	~140		16.1	977	≤995	≥175	≤0.65	98.7	≥100	162	13	17.95
22	OPGW-16-140-2	1/3.3/30AS+ 5/3.2/30AS+ 12/3.2/30AS, optical unit 1/3.1	36	~140		16.1	835	≤850	≥115	≤0.45	134.9	≥140	132	13.8	13.81
23	OPGW-16-140-3	1/3.3/20AS+ 5/3.2/20AS+ 12/3.2/AA, optical unit 1/3.1	36	~49	~96	16.1	602	≤611	≥86	≤0.31	168.6	≥170	97.6	17.4	14.36
24	OPGW-17-150-1	1/3.4/20AS+ 5/3.3/20AS+ 12/3.3/20AS, optical unit 1/3.2	48	~150		16.6	1038	≤1055	≥182	≤0.60	111.7	≥123	162	13	17.60
25	OPGW-17-150-2	1/3.4/30AS+ 5/3.3/30AS+ 12/3.3/30AS, optical unit 1/3.2	48	~150		16.6	88.7	≤901	≥122	≤0.42	152.5	≥165	132	13.8	13.82
26	OPGW-17-150-3	1/3.4/40AS+ 5/3.3/40AS+ 12/3.3/40AS, optical unit 1/3.2	48	~150		16.6	737	≤747	≥95	≤0.33	188.4	≥195	109	15.5	12.98
27	OPGW-17-150-4	1/3.4/20AS+ 4/3.3/20AS+ 12/3.3/20AS, optical unit 2/3.2	72	~150		16.6	1002	≤998	≥172	≤0.64	99.6	≥110	162	13	17.59
28	OPGW-17-150-5	1/3.4/30AS+ 4/3.3/30AS+ 12/3.3/30AS, optical unit 2/3.2	72	~150		16.6	859	≤853	≥116	≤0.45	136.1	≥147	132	13.8	13.88
29	OPGW-18-170-1	1/3.6/20AS+ 5/3.5/20AS+ 12/3.5/20AS, optical unit 1/3.4	48	~170		17.6	1165	≤1190	≥198	≤0.54	141.2	≥150	162	13	16.98
30	OPGW-18-170-2	1/3.8/20AS+ 4/3.6/20AS+ 12/3.6/20AS, optical unit 2/3.5	72	~170		18.2	1188	≤1187	≥199	≤0.54	1420	≥156	162	13	17.11
31	OPGW-18-180-1	1/3.8/14AS+ 5/3.6/14AS+ 12/3.6/14AS, optical unit 1/3.5	48	~180		18.2	1336	≤1372	≥252	≤0.72	113.3	≥125	170.1	12	18.74
32	OPGW-18-180-2	1/3.8/20AS+ 5/3.6/20AS+ 12/3.6/20AS, optical unit 1/3.5	48	~180		18.2	1235	≤1255	≥211	≤0.50	159.1	≥175	162	13	17.16
33	OPGW-18-180-3	1/3.8/30AS+ 5/3.6/30AS+ 12/3.6/30AS, optical unit 1/3.5	48	~180		18.2	1054	≤1071	≥147	≤0.35	217.2	≥234	132	13.8	14.01
34	OPGW-18-180-4	1/3.8/40AS+ 5/3.6/40AS+ 12/3.6/40AS, optical unit 1/3.5	48	~180		18.2	876	≤888	≥113	≤0.28	268.4	≥262	109	15.5	12.98

SUPPLY REFERENCE

ANNUAL 2020-2021

No.	Client name	Project Location	OPGW Type	Exported Qty. (km)
1	Kashan Cable Industries	Iran	OPGW-24B4-75	20.000
2	ALUMTEK	Iran	OPGW-24B4-75 OPGW-36B4-145	285.000
3	TAIHAN	Korea	TFO-OPT02-1501235A	384.803
		Korea	TFO-OPT02-1501235A	123.823
		Korea	TFO-OPT02-1501235A	39.228
4	ITECO	Korea	AL-CLAD PBT TUBE half finished	12.000
		Korea	AL-CLAD PBT TUBE half finished	300.000
		Korea	AL-CLAD PBT TUBE half finished	300.000
		Korea	AL-CLAD PBT TUBE half finished	200.000
5	Gabriel Andrade COMPRAS	Ecuador	OPGW-24B4-92 [62.1;77.6]	64.000
6	JOE'S ELECTRICAL CONTRACTORS(PTY)LTD	Botswana	OPGW-12B1-103[55.5;101.8]	179.000
7	SYC CONS DESIGNS	Botswana	OPGW-24B1-70	13.000
8	TECNORED SA	CHILE	OPGW-36B1-54	220.000
9	ARAGON SA	CHILE	OPGW-36B4-128	238.000
10	XINJIANG ELECTRIC POWER CO.	CHINA	OPGW-48B1-61	650.000
11	MAETEL Grupo	SA	OPGW-LS-48B1-100	120.000
12	JOE'S ELECTRICAL CONTRACTORS(PTY)LTD	Botswana	OPGW-12B1-103[55.5;101.8]	16.500
13	SMEC International Pty. Ltd	Kenya	OPGW-24B1-78 [68.7;51.1]	55.000
14	División de Proyectos en Competencia	Paraguay	OPGW-24B1-60[48.4;27.0] OPGW-24B1-60 [37.4;34.2]	74.000
15	BRAZIL PRYSIMAN	BRAZIL	OPGW-48B1-108 [54.6;109.0]	300.000
16	SPAIN PRYSIMAN	SPAIN	OPGW-24B1-98	200.000



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