



Zhendong Fiber Optic Cable Technology Co. Ltd
Building A, Sunshine International Center, Lianyung District,
Lianyungang City Jiangsu Province, China
Tel:+86 518 82301218
Fax:+86 518 82303668

OPTICAL POWERLINE GROUNDING WIRE -STRANDED SUS TUBE

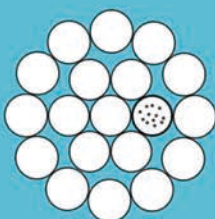
APPLICATION

- Overhead power line or telecommunication lines
- Long hual and Access
- Grounding wire
- Light weight and small diameter
- Comply with IEC 60794-4-10 and IEEE 1138

OPGW-SSUS CABLE

Construction

CENTER	Aluminum clad steel wire
LAYER 1	Aluminum clad steel wire or aluminum alloy and stainless steel tube for optical fibers
LAYER2	Aluminum clad steel wire or aluminum alloy



Mechanical Properties

CENTRAL ACS WIRE GRADE(%IACS/MM)	20.3/2.8	20.3/2.8	20.3/2.8	20.3/2.8	27/3.0	20.3/3.3	20.3/3.4	20.3/3.4
LAYER1 ACS WIRE: GRADE (%IACS/MM)	20.3/2.8	27/2.6	23/2.8	40/2.8	23/3.0	23/3.3	20.3/3.4	20.3/3.4
No.	5	1	4	5	5	4	2	5
LAYER1 AA WIRE: DIAMETER (MM)	/	2.6	2.8	/	/	3.3	3.4	/
No.	/	4	1	/	/	1	3	/
LAYER2 ACS WIRE: GRADE (%IACS/MM)	20.3/2.6	20.3/2.8	23/2.8	20.3/2.8	30/3.3	30/3.3	23/3.4	20.3/3.4
No.	12	11	11	8	11	10	8	12
LAYER2 AA WIRE: DIAMETER (MM)	/	/	2.8	2.8	/	3.3	3.4	/
No.	/	/	1	4	/	2	4	/
CABLE DIAMETER (MM)	13.6	13.6	14.0	14.0	15.6	16.5	17.0	17.0
CABLE WEIGHT (KG/KM)	688	598	678	598	819	851	839	1112
RATED TENSILE STRENGTH(KN)	121.4	100.5	112.4	92.9	120.2	122.9	130.5	192.7
COEFFICIENT OF LINE EXPANSION(10 ⁻⁵ /K)	1.30	1.45	1.35	1.67	1.29	1.38	1.52	1.3
MODULUS OF ELASTICITY(GPa)	162.0	125.4	140.3	100.6	149	136	126.6	162
SHORT TIME CRRENT(kA, 0.25s, 40℃~200℃)	14.30	15.50	16.77	18.06	20.98	24.7	26.92	23.06
SHORT TIME CRRENT CAPACITY (kA ² s)	51.2	60.1	70.3	81.6	110.0	152.5	181.1	132.9



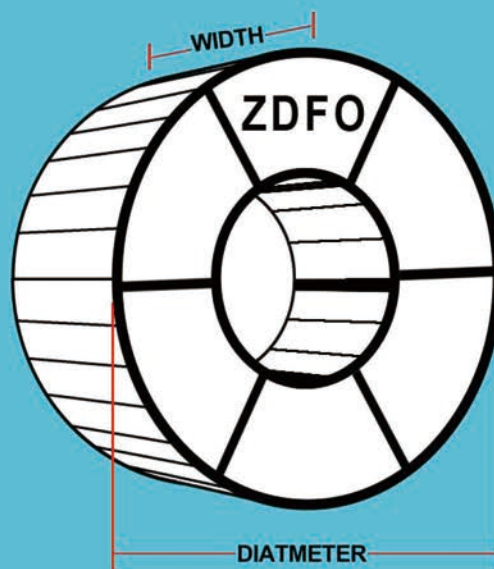
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COLOR CODING FOR FIBER AS PER TIA/EIA

1	Blue	2	Orange	3	Green	4	Brown	5	Grey	6	White
7	Red	8	Black	9	Yellow	10	Violet	11	Pink	12	Aqua
13	Blue	14	Orange	15	Green	16	Brown	17	Grey	18	White
19	Red	20	Black	21	Yellow	22	Violet	23	Pink	24	Aqua

PACKAGING

CABLE DIA.(MM)	SUPPLYING LENGTH (M)	DRUM SIZE	
		DIAMETER(MM)	WIDTH(MM)
13.6	2000	1000	720
	3000	1100	720
	4000	1200	720
14.0	2000	1000	720
	3000	1100	720
	4000	1200	720
15.6	2000	1000	720
	3000	1150	720
	4000	1250	720
16.5	2000	1200	720
	3000	1300	1150
	4000	1400	1150
17.0	2000	1200	1150
	3000	1350	1150
	4000	1500	1150



FIBER TYPES FOR THE CABLE AS PER ITU-T STANDARDS

ITU-T G.652D	ITU-T G.655	ITU-T G.657A1	ITU-T G.657A2
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ORDER INFORMATION

NO. FIBER	FIBER TYPE	CABLE TYPE	RTS(kN)	SHORT TIME CURRENT	CABLE DIAMETER	REEL LENGTH	QUANTITY
3000	G.652D	OPGW-SSUS	100	15 kA (0.25s, 20°C~200°C)	13.6 mm	3000m	30000m

Note:
 OPGW fiber optic cable must be designed according to client's need for Rated tensile strength, short time current capacity, Fiber type and number of fibers.
 ZDFO can design and manufacture OPGW with 144 fibers. In case of 144 fibers are needed, 3 stainless steel tubes are used.