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OPTICAL POWERLINE GROUNDING WIRE -STRANDED PBT LOOSE TUBE

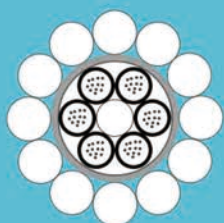
APPLICATION

- Overhead power line or telecommunication lines
- Long hual and Access
- Grounding wire
- Light weight and good anti-lightning performance
- Comply with IEC 60794-4-10 and IEEE 1138

OPGW-SPBT CABLE

Construction

CENTER	Aluminum tube with PBT loose tube strands
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

AL-TUBE INNER & OUTER DIAMETER (MM)	5.2/7.0	5.2/7.0	5.2/7.2	5.2/7.2	5.2/7.0	5.0/7.2	5.0/7.0	5.0/7.0
LAYER1 ACS WIRE: GRADE (%IACS/MM)	23/2.5	23/2.5	20.3/2.5	20.3/2.5	20.3/2.6	20.3/2.6	20.3/2.7	20.3/2.7
No.	11	7	8	4	11	11	11	6
LAYER1 AA WIRE: DIAMETER (MM)	/	2.5	2.5	2.5	/	/	/	2.7
No.	/	4	3	7	/	/	/	5
LAYER2 ACS WIRE: GRADE (%IACS/MM)	27/2.5	27/2.5	23/2.5	23/2.5	27/2.6	27/2.6	27/2.7	27/2.7
No.	17	10	18	11	17	17	17	9
LAYER2 AA WIRE: DIAMETER (MM)	/	2.5	/	2.5	/	/	/	2.7
No.	/	7	/	7	/	/	/	8
CABLE DIAMETER (MM)	17.0	17.0	17.2	17.2	17.4	17.6	17.8	17.8
CABLE WEIGHT (KG/KM)	929	733	826	724	986	992	1059	797
RATED TENSILE STRENGTH(KN)	150.9	106.0	148.3	101.2	158.2	158.2	152.8	111.3
COEFFICIENT OF LINE EXPANSION(10 ⁻⁵ /K)	1.35	1.58	1.40	1.64	1.35	1.35	1.34	1.62
MODULUS OF ELASTICITY(GPa)	139.9	112.6	142.3	111.9	152.1	151.0	152.8	114.6
SHORT TIME CRRENT(kA, 0.25s, 40℃~200℃)	24.3	27.3	26.1	29.2	26.3	26.8	28.0	32.0
SHORT TIME CRRENT CAPACITY (kA ² s)	147.3	186.0	170.6	213.4	172.7	179.1	196.7	256.2



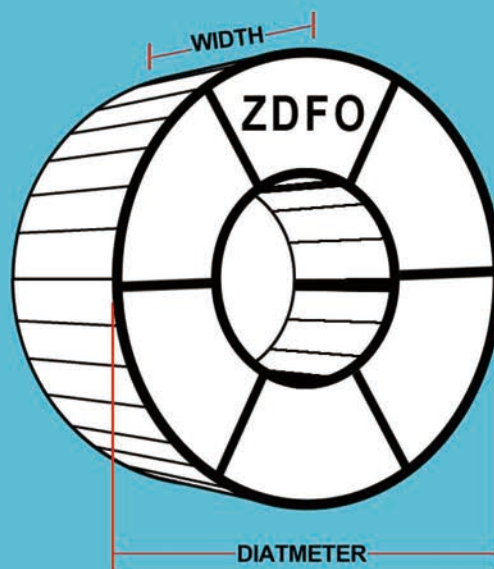
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COLOR CODING FOR FIBER AND BUFFER TUBE AS PER TIA/EIA

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)
17.0	2000	1200	1150
	3000	1300	1150
	4000	1400	1150
17.2	2000	1200	1150
	3000	1300	1150
	4000	1450	1150
17.4	2000	1200	1150
	3000	1350	1150
	4000	1500	1150
17.6	2000	1250	1150
	3000	1350	1150
	4000	1500	1150
17.8	2000	1250	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-CALT	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.
 The central aluminum tube diameter can be adjusted to carry more fibers.