



OPGW cable AL-clad SST structure 新型铝包钢管结构-OPGW光缆

为了预防由于OPGW不同金属导线互相接触形成原电池效应而产生电化腐蚀，我们设计开发了一种新型的铝包不锈钢管光单元的OPGW光缆，这种光缆无需填充防腐油膏来抗击电腐蚀。

铝包不锈钢管光单元：这种新型不锈钢管是在常规不锈钢管表面包覆铝层后而制成，它的总外径根据不同的规格在5.0~7.2mm之间，它最大可容纳48芯光纤。

为避免套管中光纤受力，光纤余长要大于0.4%，根据理论计算和实践线路的运营情况一般设计在0.40~0.70%。

由于光单元套管中含有铝层，因而在光单元套管中允许有一部分电流通过，这就使光缆总的短路电流容量有所增大。

In order to prevent galvanic corrosion due to OPGW and different metal wires are in contact with each other to form galvanic effect, we designed and developed a OPGW cable model aluminium wrapping stainless steel pipe light unit, the cable without filling antiseptic ointment to fight the electric corrosion.

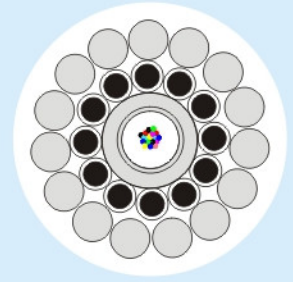
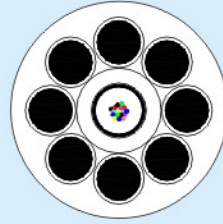
Aluminium wrapping stainless steel pipe light unit: this new type of stainless steel tube is made of coated aluminum layer in the conventional stainless steel tube, the total diameter it according to different specifications in 5.0~7.2mm, it is the largest can accommodate 48 core fiber.

In order to avoid the stress of casing of fiber, fiber excess length must be greater than 0.4%, according to the theoretical calculation and practical circuit operation general design in 0.40~0.70%.

Because of containing aluminum layer optical unit casing, thus in the light unit casing allows a part of the current through the cable, which makes the total short-circuit current capacity increased.



SDGI



型号	最大芯数	缆径(mm)	重量(kg/km)	额定拉断力(kN)	20°C直流电阻(kA*s)	短路电容量(kA ² *s)
OPGW-45	24	10.0	348	56.3	1.036	21.8
OPGW-55	24	11.0	430	71.5	0.900	31.1
OPGW-65	36	11.8	490	81.3	0.801	39.7
OPGW-70	48	12.3	522	84.6	0.752	45.0
OPGW-75	24	13.0	514	72.0	0.477	73.6
OPGW-100	12	13.8	713	121.8	0.636	67.9
OPGW-100	12	13.8	467	63.2	0.363	108.4
OPGW-110	36	14.6	782	132.1	0.569	83.0
OPGW-110	36	14.6	519	69.6	0.331	130.6
OPGW-120	24	15.0	840	143.8	0.546	93.1
OPGW-120	24	15.0	549	74.5	0.310	149.2
OPGW-130	48	15.9	922	156.0	0.489	113.8
OPGW-130	48	15.9	611	82.1	0.283	179.6
OPGW-150	48	17.0	1054	180.3	0.440	144.9
OPGW-150	48	17.0	689	93.4	0.248	232.7
OPGW-180	36	18.6	1291	221.4	0.343	227.6
OPGW-180	36	18.6	844	115.0	0.198	362.2