

«Prime-C» LLP BIN 170940000095

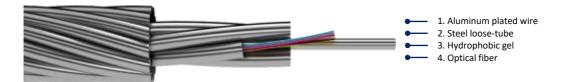
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# **OPGW-C – Optical Ground Wearer Loose Tube in Layer**



#### **Application**

The corrosion-resistant optical power ground wearer is designed to perform fiber optic lines for overhead power lines of 35 kV and above.

#### **Technical characteristics**

Parameter	Value	
Number of optical fibers	Up to 288	
Cable diameter, mm	11-21	
Cable weight, kg/km	330-1530	
Rated breaking strength (RBS), kN	47-275	
Maximum rated design tension (MRDT), kN	28-165	
Elasticity modulus, kN/mm2	70-160	
Thermal withstand, kA2·s	5-550	
S/c current for 1 sec, kA	4-30	
Crushing force, kN/sm	1	
Operating temperature	-60°C+85°C	
Installation temperature	-30°C+50°C	
Transportation and storage temperature	-60°C+70°C	
Minimum bending radius	Not less than 20 cable diameters	
Factory length, km	4	

### **Technical characteristics of optical fiber**

Type of optical fiber	Corning SMF 28 Ultra	Corning SMF28e+BB
ITU-T recommendations	G.657A1 G.652D	G.657A1 G.652D
Deviation from the concentricity of the core, microns, not more	0,5	
Diameter of fiber sheath, microns	125±0,7	
Deviation from the roundness of the sheath,%, not more	0,7	
The diameter of the protective covering, microns	242±5	
Maximum attenuation at wavelength 1310 nm	0,32	0,34
Maximum attenuation at wavelength 1550 nm	0,18	0,20

## Full name example

## OPGW-C-24-11,2mm-25 kA2·s-1kN

Cable consist of the central strength element made of aluminum plated steel wire around which is twisted aluminum plated steel wire layer with a steel loose tube with freely laid fibers. The optical fibers in the loose tube are bundled. Each bundle of fibers has a winding colored synthetic thread. The free space is filled with a hydrophobic gel in the optical loose tube. One lay of reinforcing wires is spirally laid on top.