



LIOVH OPGW Optical Ground Wire up to 24 cores type B1-63



*All images are indicative

Features

SUS AL tube
AA wire
Right Hand Z-stranding

Standards of reference and applications

IEC, IEEE, DL/T 832-2003, GB/T 7424.4-2003 standards

Installation Features

Store at -40 to +60 °C

Install at -10 to +50 °C, **Bend minimum** 262 mm

Operate at -40 to +80 °C, **Bend minimum** 157 mm

Design

Optical fiber : 125/250µm Single Mode G652.D or G.655

Fiber Buffer : Central SUS Tube / AL-Tube diameter 3.0/5.2 mm

Layer 1 : 9 wires AS/AA diameter 2.65 mm

Mechanical properties

Supporting Cross Section : 63.8 mm²

Section of AS Wire : 49.6 mm²

Section of AL tube : 14.2 mm²

Ultimate Tensile Strength (UTS) : 56.8 kN

Rate Tensile Strength (RTS) : 51.6 kN

Modulus of Elasticity (E-Modulus) : 121.3 kN/mm²

Thermal Elongation Coefficient : $14.4 \times 10^{-6} / ^\circ\text{C}$

Permissible Maximum Working Stress (40% RTS) : 323.7 N/mm²

Everyday Stress (EDS) (18%~25% RTS) : 145.7 ~202.3 N/mm²

Ultimate Exceptional Stress (70% RTS) : 566.5 N/mm²

DC Resistance : 0.789 Ω/km

Short Time Current (0.5s, 40°C ~200°C) : 7.7 kA

Short Time Current Capacity I²t : 29.3 kA²s

Ratio between Pull and Weight : 14.8 km

Colour code of fibers

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

Fiber Optic characteristics

See detailed specification of optical fibers.

Ordering and delivery information

Fiber Count	Part Number	Central tube	Fibers per tube	1st layer (no of tubes)	O.D. (mm)	Weight (kg/km)	Packaging
2	OPGWB16302xx	1	2	9	10.5	357	2-4km
4	OPGWB16304xx	1	4	9	10.5	357	2-4km
8	OPGWB16308xx	1	8	9	10.5	357	2-4km
12	OPGWB16312xx	1	12	9	10.5	357	2-4km
24	OPGWB16324xx	1	24	9	10.5	357	2-4km

xx = fiber type

ex. G652D=S2, G655=S5



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