



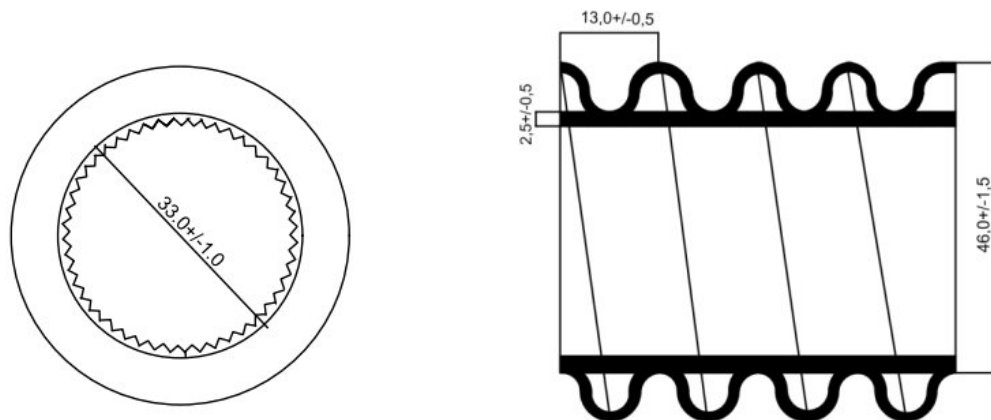
# **Technical Specification**

**For**

**COD 46 / 33MM**

**OPTIROAD INC.**

## Technical specification



Flexible duct bilayer spiral VKTSd 33 designed for laying in them electrical, telecommunication, computer, television networks, they are used in the construction of multi-channel transmission and local forms of communication in the construction of cable ducts along oil and gas pipelines, roads and railways, under the runways of airports, as an alternative to using armored cable in distribution networks of outdoor lighting, outdoor advertising, etc., as forming channels for power and information wiring.

The usage of bilayer spiral ducts in case of optic telecommunication installation provides some main advantages rather than typical flexible pipes, which are used in the following purposes:

- while maintaining the values of the index of ring stiffness, a spiral bilayer duct is  $1.5 \div 2$  times lighter than a regular smooth pipe, which reduces the cost of transportation and installation
- simplicity and reliability of the duct connection by means of couplings, while the tightness of the connection exceeds the resistance of the pipe at internal hydrostatic pressure.
- improved impact resistance due to lack of stress in relatively thin walls
- enhanced sound and thermal insulation
- increased "tolerance" of freezing water in the duct
- resistance to cyclic fluctuations of the transported medium temperature
- the duct is mechanically connected to the soil or building structure, which excludes their relative movement

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**Operating temperature range:** ducts are resistant to the lowest possible temperatures (brittle temperature is about minus 120 °C)

operating temperature range: - 80 °C ÷ + 60 °C, short-term up to + 90 °C

**Execution of pipes:**

A longitudinal corrugation is applied to the inner layer of the pipes to reduce friction during cable blowing.

**FR** – flame retardant

**UV** – resistant to ultraviolet radiation.

**Physical and mechanical properties:**

tensile strength - 234 kgf / cm<sup>2</sup>,

the value of deformation with compression force at a given value does not exceed 3%

high dielectric strength - at least 1 min at a voltage of 70 kV

**The ducts are resistant** to acids, including concentrated sulfuric and hydrochloric, alkalis, oils, gasoline, oil, other aggressive environments, various contaminants and impurities in the structure of natural soils, groundwater, have optimal corrosion resistance, water and airproof.

Ducts are environmentally friendly, safe for the environment.

**Duct size:**

Outer diameter: 46,0 ± 1,5 mm

Inner diameter: 33,0 ± 1,0 mm

Wall thickness: 2,5 ± 0,5 mm

Crest step: 13 ± 0,5 mm

**Ducts are produced with bays of 2000 meters.**

Picture

