



Application

Cable is intended for the high-frequency communication in the frequency span up to 1700 MHz at stationary laying in the air and in the sea water.

Design

Inner conductor
Current-carrying conductor twisted of seven copper wires of nominal diameter 1,33 mm.

Insulation

Low-density polyethylene.

Inner conductor

Braid or layer of copper wires 0,30mm in diameter

Sheath

PVC compound.

The spaces between the structural elements are filled with sealing compound, except spaces between tape winding and sheath.

Performance Specification

Rated test ac voltage of nominal frequency 50 Hz during 1 minute of coaxial pair insulation, V	5000
Electrical resistance of cable insulation counted for 1 km of length and temperature 20°C, not less than megaohm	1000
Wave impedance of the cable on the nominal frequency 10MHz, Ohm	50±5
Damping coefficient of the cable, counted for the 1m, not more dB	
— at nominal frequency of 10 MHz	0,015
— at nominal frequency of 200 MHz	0,085
— at nominal frequency 1500 MHz	0,33

Cable is resistant to:

- 30 cycles of bends at mounting in the air under the ambient temperature from minus 15°C, to plus 45°C, bend angle not more than 180° and nominal bending radius is 200 mm
- external radial and longitudinal hydrostatic working pressure up to 4 MPa, and testing pressure up to 6 MPa;
- sinusoidal vibrations and single-action mechanical impacts ;
- high operation air temperature of 45°C;
- low operation air temperature:
 - under the condition of stationary laying is minus 40°C ;
 - under the condition of mounting bends is minus 15°C;
- high air humidity 98% at temperature 35°C ;
- exposure to the corrosive medium:
 - of vapor, condensate and running of machinery oil, hydraulic oil, diesel oil and fire- safe hydraulic liquids time of influence of oils, diesel fuel, and fire- safe hydraulic liquids is not more than 300 hours;
 - of sea water under the temperature from -4° to +35°C.

Cable:

- is flame retardant at individual laying;
- Vertical cable laying without sealing compound flowing-out under the high air temperature is allowable ;
- is resistant to the maximum admissible continuous temperature of inner conductor of 70°C

Factory length of the cable is not less than 100 m.

By agreement of the parties it is possible to supply cable of any length.

Service life of cable is 25 years under the observance of the requirements to the operation conditions .