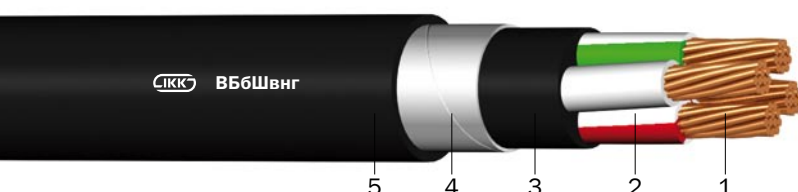




## VBbSHvng - 0,66 kV - 1 kV

Power cable with copper cores, PVC insulation which does not spread burning, BbSHv sheath (armour: galvanized steel tape, PVC protective hose) which does not spread burning)

### DESIGN



1. Copper single-core or multi-core, class «1» and class «2» according to GOST 22483.
2. PVC insulation. Insulated cores of multi-core cables have distinguishing colors or digital markings. 2 cores, 3 cores, 4 cores and 5 cores are twisted with each other.
3. PVC sheath.
4. Armour made with 2 galvanized steel tapes with overlapping winding.
5. PVC protective hose which does not spread burning.

### APPLICATION

For transmission and distribution of electricity in stationary installations with 0.66 kV and 1 kV rated alternating voltage, 50 Hz frequency. For laying in cable structures, rooms and underground structures without stretching by using, for laying in the ground.

### TECHNICAL DATA



**Standard:**  
GOST 16442-80  
TU U 31.3-32739864-001-2004



**Rated voltage:**  
0.66/1 kV



**Test voltage:**  
3/3.5 kV



**Temperature range:**  
-laying temperature up to -15°C;  
-operating temperature -50°C – +50 °C.



**Bending radius (min):**  
-single-core: not less than 10 diameters of the cable;  
-multi-core: not less than 7.5 diameters of the cable.



**Life time:**  
30 years.



**Fire properties:**  
Cables are fire-resistant for single laying according to DSTU 4809 and for beam laying («A» classification) according to DSTU 4809, GOST 12176, DSTU 4237-3-21 and DSTU 4237-3-22.

Toxicity of combustion products of non-metallic materials according to DSTU 4809, «Tk0» class. Smoke-generating ability during smoldering of non-metallic materials according to DSTU 4809, «DTk0» class.

Smoke-generating ability during combustion according to DSTU 4809, «DPk0» class.

Corrosion activity of combustion products of non-metallic materials according to DSTU 4809, «Kk0» class. Fire safety according to PB 120000000.



**Certificate:**  
UkrSEPRO

## VBbSHvng - 0,66 kV - 1 kVB

| Number of cores x cross-section (mm <sup>2</sup> ) | Cable diameter (mm) | Mass of 1 km (kg) | Electrical resistance of cores according to GOST 22483, Not more than (Om/km) |
|----------------------------------------------------|---------------------|-------------------|-------------------------------------------------------------------------------|
| VBbSHvng - 0,66 kV                                 |                     |                   |                                                                               |
| 2 x 6                                              | 16,1                | 259               | 3,0800                                                                        |
| 2 x 10                                             | 18,4                | 362               | 1,8300                                                                        |
| 2 x 16                                             | 21,5                | 514               | 1,1500                                                                        |
| 2 x 25                                             | 25,4                | 763               | 0,7270                                                                        |
| 2 x 35                                             | 27,7                | 971               | 0,5240                                                                        |
| 2 x 50                                             | 31,2                | 1 283             | 0,3870                                                                        |
| 3 x 4                                              | 15,6                | 260               | 4,6100                                                                        |
| 3 x 6                                              | 16,7                | 327               | 3,0800                                                                        |
| 3 x 10                                             | 19,2                | 474               | 1,8300                                                                        |
| 3 x 16                                             | 22,6                | 688               | 1,1500                                                                        |
| 3 x 25                                             | 26,7                | 1 037             | 0,7270                                                                        |
| 3 x 35                                             | 29,1                | 1 339             | 0,5240                                                                        |
| 3 x 50                                             | 32,9                | 1 791             | 0,3870                                                                        |
| 4 x 4                                              | 16,5                | 313               | 4,6100                                                                        |
| 4 x 6                                              | 17,8                | 400               | 3,0800                                                                        |
| 4 x 10                                             | 20,6                | 590               | 1,8300                                                                        |
| 4 x 16                                             | 24,8                | 895               | 1,1500                                                                        |
| 4 x 25                                             | 28,9                | 1 321             | 0,7270                                                                        |
| 4 x 35                                             | 31,6                | 1 718             | 0,5240                                                                        |
| 4 x 50                                             | 36,3                | 2 350             | 0,3870                                                                        |
| 5 x 4                                              | 17,6                | 366               | 4,6100                                                                        |
| 5 x 6                                              | 19,0                | 474               | 3,0800                                                                        |
| 5 x 10                                             | 22,1                | 708               | 1,8300                                                                        |
| 5 x 16                                             | 26,7                | 1 081             | 1,1500                                                                        |
| 5 x 25                                             | 31,4                | 1 607             | 0,7270                                                                        |
| 5 x 35                                             | 34,9                | 2 135             | 0,5240                                                                        |
| 5 x 50                                             | 39,6                | 2 879             | 0,3870                                                                        |
| VBbSHvng - 1 kV                                    |                     |                   |                                                                               |
| 2 x 6                                              | 17,3                | 281               | 3,0800                                                                        |
| 2 x 10                                             | 18,8                | 371               | 1,8300                                                                        |
| 2 x 16                                             | 21,9                | 524               | 1,1500                                                                        |
| 2 x 25                                             | 25,8                | 776               | 0,7270                                                                        |
| 2 x 35                                             | 28,1                | 985               | 0,5240                                                                        |
| 2 x 50                                             | 31,6                | 1 298             | 0,3870                                                                        |
| 2 x 70                                             | 35,5                | 1 742             | 0,2680                                                                        |
| 2 x 95                                             | 39,7                | 2 297             | 0,1930                                                                        |
| 2 x 120                                            | 42,3                | 2 699             | 0,1530                                                                        |
| 2 x 150                                            | 46,5                | 3 352             | 0,1240                                                                        |
| 2 x 185                                            | 50,9                | 4 165             | 0,0991                                                                        |
| 2 x 240                                            | 56,5                | 5 220             | 0,0754                                                                        |
| 3 x 4                                              | 16,9                | 287               | 4,6100                                                                        |

## VBbSHvng - 0,66 kV - 1 kVB

| Number of cores x cross-section (mm <sup>2</sup> ) | Cable diameter (mm) | Mass of 1 km (kg) | Electrical resistance of cores according to GOST 22483, Not more than (Om/km) |
|----------------------------------------------------|---------------------|-------------------|-------------------------------------------------------------------------------|
| VBbSHvng - 0,66 kV                                 |                     |                   |                                                                               |
| 3 x 6                                              | 18,0                | 356               | 3,0800                                                                        |
| 3 x 10                                             | 19,6                | 484               | 1,8300                                                                        |
| 3 x 16                                             | 23,0                | 702               | 1,1500                                                                        |
| 3 x 25                                             | 27,1                | 1 054             | 0,7270                                                                        |
| 3 x 35                                             | 29,5                | 1 357             | 0,5240                                                                        |
| 3 x 50                                             | 33,3                | 1 812             | 0,3870                                                                        |
| 3 x 70                                             | 37,5                | 2 446             | 0,2680                                                                        |
| 3 x 95                                             | 42,0                | 3 258             | 0,1930                                                                        |
| 3 x 120                                            | 45,2                | 3 895             | 0,1530                                                                        |
| 3 x 150                                            | 49,3                | 4 788             | 0,1240                                                                        |
| 3 x 185                                            | 54,1                | 5 985             | 0,0991                                                                        |
| 3 x 240                                            | 60,0                | 7 514             | 0,0754                                                                        |
| 4 x 4                                              | 18,0                | 346               | 4,6100                                                                        |
| 4 x 6                                              | 19,2                | 436               | 3,0800                                                                        |
| 4 x 10                                             | 21,1                | 604               | 1,8300                                                                        |
| 4 x 16                                             | 25,2                | 914               | 1,1500                                                                        |
| 4 x 25                                             | 29,4                | 1 342             | 0,7270                                                                        |
| 4 x 35                                             | 32,1                | 1 741             | 0,5240                                                                        |
| 4 x 50                                             | 36,7                | 2 378             | 0,3870                                                                        |
| 4 x 70                                             | 41,0                | 3 167             | 0,2680                                                                        |
| 4 x 95                                             | 46,5                | 4 287             | 0,1930                                                                        |
| 4 x 120                                            | 49,6                | 5 071             | 0,1530                                                                        |
| 4 x 150                                            | 54,2                | 6 250             | 0,1240                                                                        |
| 4 x 185                                            | 59,9                | 7 896             | 0,0991                                                                        |
| 4 x 240                                            | 67,1                | 10 016            | 0,0754                                                                        |
| 4 x 300                                            | 76,0                | 12 868            | 0,0601                                                                        |
| 5 x 2,5                                            | 16,9                | 293               | 7,4100                                                                        |
| 5 x 4                                              | 19,2                | 406               | 4,6100                                                                        |
| 5 x 6                                              | 20,6                | 517               | 3,0800                                                                        |
| 5 x 10                                             | 22,7                | 725               | 1,8300                                                                        |
| 5 x 16                                             | 27,3                | 1 103             | 1,1500                                                                        |
| 5 x 25                                             | 31,9                | 1 634             | 0,7270                                                                        |
| 5 x 35                                             | 35,4                | 2 165             | 0,5240                                                                        |
| 5 x 50                                             | 40,1                | 2 912             | 0,3870                                                                        |
| 5 x 70                                             | 45,3                | 3 939             | 0,2680                                                                        |
| 5 x 95                                             | 51,0                | 5 278             | 0,1930                                                                        |
| 5 x 120                                            | 54,5                | 6 252             | 0,1530                                                                        |
| 5 x 150                                            | 60,0                | 7 782             | 0,1240                                                                        |
| 5 x 185                                            | 67,0                | 9 931             | 0,0991                                                                        |
| 5 x 240                                            | 74,0                | 12 372            | 0,0754                                                                        |

It is possible to manufacture cables according to individual requirements.

The parameters given in the table are approximate. The manufacturer reserves the right to change them.