# NYY

## CU/PVC/ PVC – 0.6/1 kV Cable

### CABLE STANDARDS

IEC 60502-1 , ISIRI 3569-1 , IEC 60228, IEC 60332-1-2

### APPLICATION

NYY is used as a power cable for energy supply in static installations, indoors, outdoors, underground and in concrete where mechanical damages are not to be expected.

### CONSTRUCTION

**Conductor**

Class 1 or 2 or stranded copper conductors

**Insulation**

PVC (Polyvinyl Chloride)

**Filler**

PVC

**PET**

Polyester Tape

**Sheath**

PVC (Polyvinyl Chloride)

### CHARACTERISTICS

**Voltage Rating** ($U_0$.U) (Um)

0.6/1 (1.2) kV

**Test Voltage**

8.4 KV

**Temperature Rating**

Fixed: -20°C to +70°C

Flexed: -5°C to +70°C

**Short Circuit Temperature**

+160°C

**Minimum Bending Radius**

12 x Overall Diameter **for Multi Core**

15 x Overall Diameter **for Single Core**

**Sheath Color**

Black



OFOGH ALBORZ INDUSTRIAL GROUP

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## Technical Specifications

| NO. OF CORES | NOMINAL CROSS SECTIONAL AREA Conductor mm² | | Max DC Conductor Resistance at 20°C Ω.km | Short-circuit Current KA 1.sec Approx | CURRENT CARRYING CAPACITY Amps Approx | | | | Capacitance µf.km Approx | Reactance Ω.km Approx | | OVERALL DIAMETER Mm Approx | WEIGHT kg.km Approx |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Trefoil | | Flat | | | Trefoil | Flat | | |
| | | | | | Ground | Air | Ground | Air | | | | | |
| 1 | 16 | RM.V | 1.15 | 1.91 | 107 | 89 | 127 | 103 | 0.76 | 0.11 | 0.18 | 9.2 | 215 |
| 1 | 25 | RM.V | 0.727 | 2.96 | 137 | 118 | 163 | 137 | 0.79 | 0.10 | 0.18 | 10.8 | 314 |
| 1 | 35 | RM.V | 0.524 | 4.13 | 165 | 145 | 195 | 169 | 0.92 | 0.10 | 0.17 | 11.9 | 411 |
| 1 | 50 | RM.V | 0.387 | 5.87 | 195 | 176 | 230 | 206 | 0.90 | 0.09 | 0.17 | 13.3 | 533 |
| 1 | 70 | RM.V | 0.268 | 8.19 | 239 | 224 | 282 | 261 | 1.06 | 0.09 | 0.17 | 14.9 | 736 |
| 1 | 95 | RM.V | 0.193 | 11.09 | 287 | 271 | 336 | 321 | 1.09 | 0.09 | 0.16 | 17.2 | 1004 |
| 1 | 120 | RM.V | 0.153 | 13.99 | 326 | 314 | 382 | 374 | 1.22 | 0.08 | 0.16 | 18.9 | 1249 |
| 1 | 150 | RM.V | 0.124 | 17.46 | 366 | 361 | 428 | 428 | 1.21 | 0.08 | 0.16 | 20.7 | 1528 |
| 1 | 185 | RM.V | 0.0991 | 21.50 | 414 | 412 | 483 | 494 | 1.21 | 0.08 | 0.16 | 22.9 | 1895 |
| 1 | 240 | RM.V | 0.0754 | 27.86 | 481 | 484 | 561 | 590 | 1.26 | 0.08 | 0.16 | 25.9 | 2465 |
| 1 | 300 | RM.V | 0.0601 | 34.79 | 542 | 549 | 632 | 678 | 1.29 | 0.08 | 0.16 | 28.6 | 3069 |
| 1 | 400 | RM.V | 0.0470 | 46.34 | 624 | 657 | 730 | 817 | 1.35 | 0.08 | 0.16 | 32.1 | 3908 |
| 1 | 500 | RM.V | 0.0366 | 57.88 | 698 | 749 | 823 | 940 | 1.43 | 0.08 | 0.16 | 36.0 | 4973 |
| 1 | 630 | RM.V | 0.0283 | 72.87 | 773 | 839 | 918 | 1060 | 1.67 | 0.08 | 0.15 | 41.3 | 6429 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Trefoil | | Flat | | | Trefoil | Flat | | |
| | | | | | Ground | Air | Ground | Air | | | | | |
| 2 | 1.5 | RE | 12.1 | 0.19 | 32 | 20 | 39 | 25 | 0.77 | 0.15 | 0.23 | 10.6 | 164 |
| 2 | 2.5 | RE | 7.41 | 0.32 | 43 | 27 | 51 | 34 | 0.42 | 0.14 | 0.22 | 11.6 | 206 |
| 2 | 4 | RE | 4.61 | 0.50 | 55 | 37 | 66 | 45 | 0.42 | 0.14 | 0.21 | 13.3 | 282 |
| 2 | 6 | RE | 3.08 | 0.73 | 68 | 48 | 82 | 57 | 0.49 | 0.13 | 0.21 | 14.2 | 343 |
| 2 | 10 | RE | 1.83 | 1.20 | 90 | 66 | 109 | 78 | 0.60 | 0.12 | 0.20 | 16.0 | 471 |
| 2 | 16 | RM.V | 1.15 | 1.91 | 107 | 89 | 127 | 103 | 0.76 | 0/15 | 0/23 | 18/8 | 690 |
| 2 | 25 | RM.V | 0.727 | 2.96 | 137 | 118 | 163 | 137 | 0.79 | 0/15 | 0/22 | 22/0 | 985 |
| 2 | 35 | RM.V | 0.524 | 4.13 | 165 | 145 | 195 | 169 | 0.92 | 0/14 | 0/22 | 24/2 | 1254 |

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### Technical Specifications

| NO. OF CORES | NOMINAL CROSS SECTIONAL AREA Conductor mm² | | Max DC Conductor Resistance at 20◦C Ω.km | Short-circuit Current KA 1.sec Approx | CURRENT CARRYING CAPACITY Amps Approx | | | | Capacitance µf.km Approx | Reactance Ω.km | | OVERALL DIAMETER Mm Approx | WEIGHT kg.km Approx |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Trefoil | | Flat | | | Trefoil | Flat | | |
| | | | | | Ground | Air | Ground | Air | | | | | |
| 3 | 1.5 | RE | 12.1 | 0.19 | 32 | 25 | - | - | 0.77 | 0.15 | - | 11.5 | 199 |
| 3 | 2.5 | RE | 7.41 | 0.32 | 43 | 34 | - | - | 0.42 | 0.14 | - | 12.3 | 245 |
| 3 | 4 | RE | 4.61 | 0.50 | 55 | 44 | - | - | 0.42 | 0.14 | - | 14.2 | 337 |
| 3 | 6 | RE | 3.08 | 0.73 | 68 | 57 | - | - | 0.49 | 0.13 | - | 15.2 | 417 |
| 3 | 10 | RE | 1.83 | 1.20 | 90 | 77 | - | - | 0.60 | 0.12 | - | 17.1 | 582 |
| 3 | 16 | RM.V | 1.15 | 1.91 | 107 | 89 | - | - | 0.76 | 0.11 | - | 19.9 | 849 |
| 3 | 25 | RM.V | 0.727 | 2.96 | 137 | 118 | - | - | 0.79 | 0.10 | - | 23.3 | 1225 |
| 3 | 35 | RM.V | 0.524 | 4.13 | 165 | 145 | - | - | 0.92 | 0.10 | - | 25.7 | 1576 |
| 3 | 50 | SM | 0.387 | 5.87 | 195 | 176 | - | - | 0.90 | 0.14 | - | 25.5 | 1652 |
| 3 | 70 | SM | 0.268 | 8.19 | 239 | 224 | - | - | 1.06 | 0.14 | - | 28.9 | 2285 |
| 3 | 95 | SM | 0.193 | 11.09 | 287 | 271 | - | - | 1.09 | 0.14 | - | 33.3 | 3104 |
| 3 | 120 | SM | 0.153 | 13.99 | 326 | 314 | - | - | 1.22 | 0.13 | - | 36.2 | 3827 |
| 3 | 150 | SM | 0.124 | 17.46 | 366 | 361 | - | - | 1.21 | 0.13 | - | 40.3 | 4722 |
| 3 | 185 | SM | 0.0991 | 21.50 | 414 | 412 | - | - | 1.21 | 0.13 | - | 44.7 | 5871 |
| 3 | 240 | SM | 0.0754 | 27.86 | 481 | 484 | - | - | 1.26 | 0.13 | - | 50.8 | 7647 |
| 3 | 300 | SM | 0.0601 | 34.79 | 542 | 549 | - | - | 1.29 | 0.13 | - | 56.4 | 9531 |

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Technical Specifications

| NO. OF CORES | NOMINAL CROSS SECTIONAL AREA Conductor mm² | | Max DC Conductor Resistance at 20°C Ω.km | Short-circuit Current KA 1.sec Approx | CURRENT CARRYING CAPACITY Amps Approx | | | | Capacitance µf.km Approx | Reactance Ω.km Approx | | OVERALL DIAMETER Mm Approx | WEIGHT kg.km Approx |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Trefoil | | Flat | | | Trefoil | Flat | | |
| | | | | | Ground | Air | Ground | Air | | | | | |
| 3+1 | 25+16 | RM.V | 0.727 | 2.96 | 128 | 106 | - | - | 0.79 | 0.10 | - | 24.5 | 1392 |
| 3+1 | 35+16 | RM.V | 0.524 | 4.13 | 157 | 131 | - | - | 0.92 | 0.09 | - | 27.5 | 1845 |
| 3+1 | 50+25 | SM | 0.387 | 5.87 | 185 | 159 | - | - | 0.90 | 27.3 | - | 27.3 | 1927 |
| 3+1 | 70+35 | SM | 0.268 | 8.19 | 228 | 202 | - | - | 1.06 | 30.9 | - | 30.9 | 2655 |
| 3+1 | 95+50 | SM | 0.193 | 11.09 | 275 | 244 | - | - | 1.09 | 35.9 | - | 35.9 | 3631 |
| 3+1 | 120+70 | SM | 0.153 | 13.99 | 313 | 282 | - | - | 1.22 | 39.1 | - | 39.1 | 4554 |
| 3+1 | 150+70 | SM | 0.124 | 17.46 | 353 | 324 | - | - | 1.21 | 43.6 | - | 43.6 | 5438 |
| 3+1 | 185+95 | SM | 0.0991 | 21.50 | 399 | 371 | - | - | 1.21 | 48.5 | - | 48.5 | 6874 |
| 3+1 | 240+120 | SM | 0.0754 | 27.86 | 464 | 436 | - | - | 1.26 | 54.8 | - | 54.8 | 8877 |
| 3+1 | 300+150 | SM | 0.0601 | 34.79 | 524 | 481 | - | - | 1.29 | 60.6 | - | 60.6 | 11015 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Trefoil | | Flat | | | Trefoil | Flat | | |
| | | | | | Ground | Air | Ground | Air | | | | | |
| 4 | 1.5 | RE | 12.1 | 0.19 | 26 | 18.5 | - | - | 0.77 | 0.15 | - | 12.3 | 230 |
| 4 | 2.5 | RE | 7.41 | 0.32 | 34 | 25 | - | - | 0.42 | 0.14 | - | 13.2 | 288 |
| 4 | 4 | RE | 4.61 | 0.50 | 44 | 34 | - | - | 0.42 | 0.13 | - | 15.3 | 401 |
| 4 | 6 | RE | 3.08 | 0.73 | 56 | 43 | - | - | 0.49 | 0.13 | - | 16.4 | 501 |
| 4 | 10 | RE | 1.83 | 1.20 | 75 | 60 | - | - | 0.60 | 0.12 | - | 18.6 | 706 |
| 4 | 16 | RM.V | 1.15 | 1.91 | 98 | 80 | - | - | 0.76 | 0.10 | - | 21.6 | 1041 |
| 4 | 25 | RM.V | 0.727 | 2.96 | 128 | 106 | - | - | 0.79 | 0.10 | - | 25.5 | 1513 |
| 4 | 35 | RM.V | 0.524 | 4.13 | 157 | 131 | - | - | 0.92 | 0.10 | - | 28.4 | 1972 |
| 4 | 50 | SM | 0.387 | 5.87 | 185 | 159 | - | - | 0.90 | 0.09 | - | 28.1 | 2175 |
| 4 | 70 | SM | 0.268 | 8.19 | 228 | 202 | - | - | 1.06 | 0.09 | - | 31.8 | 2998 |
| 4 | 95 | SM | 0.193 | 11.09 | 275 | 244 | - | - | 1.09 | 0.08 | - | 37.2 | 4108 |
| 4 | 120 | SM | 0.153 | 13.99 | 313 | 282 | - | - | 1.22 | 0.08 | - | 40.0 | 5053 |
| 4 | 150 | SM | 0.124 | 17.46 | 353 | 324 | - | - | 1.21 | 0.08 | - | 44.8 | 6225 |
| 4 | 185 | SM | 0.0991 | 21.50 | 399 | 371 | - | - | 1.21 | 0.08 | - | 49.9 | 7769 |
| 4 | 240 | SM | 0.0754 | 27.86 | 464 | 436 | - | - | 1.26 | 0.08 | - | 56.8 | 10117 |
| 4 | 300 | SM | 0.0601 | 34.79 | 524 | 481 | - | - | 1.29 | 0.08 | - | 63.0 | 12607 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Trefoil | | Flat | | | Trefoil | Flat | | |
| | | | | | Ground | Air | Ground | Air | | | | | |
| 5 | 1.5 | RE | 12.1 | 0.26 | 26 | 18.5 | - | - | 0.77 | 0.15 | - | 13.1 | 269 |
| 5 | 2.5 | RE | 7.41 | 0.41 | 34 | 25 | - | - | 0.42 | 0.14 | - | 14.2 | 340 |
| 5 | 4 | RE | 4.61 | 0.64 | 44 | 34 | - | - | 0.42 | 0.13 | - | 16.7 | 488 |
| 5 | 6 | RE | 3.08 | 0.94 | 56 | 43 | - | - | 0.49 | 0.12 | - | 18.0 | 612 |
| 5 | 10 | RE | 1.83 | 1.53 | 75 | 60 | - | - | 0.60 | 0.12 | - | 20.3 | 866 |
| 5 | 16 | RM.V | 1.15 | 2.41 | 98 | 80 | - | - | 0.76 | 0.10 | - | 23.5 | 1269 |
| 5 | 25 | RM.V | 0.727 | 3.73 | 128 | 106 | - | - | 0.79 | 0.10 | - | 28.0 | 1870 |
| 5 | 35 | RM.V | 0.524 | 5.19 | 157 | 131 | - | - | 0.92 | 0.10 | - | 31.4 | 2460 |