Evolucable Industria de Cabos Especiais Av. Minasa, 25 - Galpão B1 - Condomínio Industrial Business Park -Sumaré/SP - Cep 13.180-400 Sumaré/SP (Fábrica): +55 19 3090-3350 São Paulo/SP: +55 11 3090-6855 Rio de Janeiro/RJ: +55 21 2042-0087



# INNOVCABLE PVC JB/OB YCY



- Conductor material: bare copper wires
- Conductor class: According to DIN VDE 0295 class 5 and IEC 60228 cl. 5
- Vein insulation: PVC special 70°C Up to 5 conductors coloured veins according to DIN VDE 0293-308; above 6 conductors Innovcable colour code with or without earth vein (G).
- -Twisted in layers.
- Protective intermediate layer in special PVC.
- Shielding: shielding of tinned copper wires, 85% coverage.
- Outer layer in special PVC resistant to oils, grease, acids and radiation (up to 80x106cJ/Kg (up to 80 Mrad)).
- Manufactured in RAL grey 7001 colour.
- Manufactured free from noxious substances and silicone.
- Rated voltage: up to 16,0mm<sup>2</sup> 300/500V; above 25,0mm<sup>2</sup> 0,6/1kv
- Test voltage: 4000V
- Short-circuit voltage: min. 8000V
- Conductor resistance: according to DIN VDE 0295 class 5 and IEC 60228 cl. 5
- Insulation resistance: Min. 20 MΩX Km.
- Min. bending radius fixed use:6 x d
- Min. bending radius if mobile: 15 x d
- Flameproof and flame retardant according to IEC 60332-1

#### Identification

- All cables with identification (G) have 1 green earth conductor, (x) without green earth conductor. External identification marking: INNOVCABLE JB/OB-YCY n (x) or (G) mm² 300/500V or 0.6/1 Kv 70°C OF:XXXX/ANO

## Applicable Specifications

DIN VDE 0295 CLASS 5













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IEC 60228 CLASS 5

**DIN VDE 0293** 

**RAL 7001** 

IEC 60332-1

DIN VDE 0245, 0250 AND 0281

#### **Applications**

Cable for power, control and connections of electrical equipment, with low loss in data transmission and signal transmission, for fixed and flexible applications without traction, can be applied in dry and wet locations. It has UV protection (external use). Flame retardant in accordance with IEC 60332-1. Resistant to oils, grease, acids and radiation (up to 80x106cJ/Kg (up to 80 Mrad)). Manufactured free of harmful substances and silicone. Protective shielding against electromagnetic interference. Recommended for EMC applications. Voltage test 4000V Additional mechanical protection through intermediate frame

## Maximum Conductor Temperature

min/max: -30° C / +70° C

Notes

G = with 1 green conductor to earth;

x = without a green earth conductor (OZ).

- Several other cable options and configurations can be produced on request. Innovcable reserves the right to modify this catalogue without prior notice.













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#### DADOS DIMENSIONAIS

dimensional n x mm²         Diametro externo ∅ kg/km         Peso do cobre kg/km         Peso kg/km           2 X 0.5				
mm           2 X 0,5         6,9         41,0         74,0           3 G 0,5         7,3         46,0         78,0           4 G 0,5         7,9         55,0         95,0           5 G 0,5         8,4         66,0         111,0           7 G 0,5         9,1         81,0         140,0           12 G 0,5         11,5         139,0         227,0           2 X 0,75         7,5         46,0         77,0           3 G 0,75         7,9         58,0         91,0           4 G 0,75         8,4         64,0         109,0           5 G 0,75         9,1         77,0         136,0           7 G 0,75         9,7         102,0         174,0           12 G 0,75         12,7         177,0         270,0           2 X 1         7,9         56,0         91,0           3 G 1         8,2         65,0         107,0           2 X 1         7,9         56,0         91,0           3 G 1         8,2         65,0         107,0           4 G 1         8,8         78,0         137,0           4 G 1         8,8         78,0         137,0           12 G 1 <td>dimensional</td> <td>Diametro</td> <td>Peso do cobre</td> <td>Peso</td>	dimensional	Diametro	Peso do cobre	Peso
mm           2 X 0.5         6.9         41,0         74,0           3 G 0.5         7.3         46.0         78.0           4 G 0.5         7.9         55.0         95.0           5 G 0.5         8.4         66.0         111.0           7 G 0.5         9.1         81.0         140.0           12 G 0.5         11,5         139.0         227.0           2 X 0.75         7.5         46.0         77.0           3 G 0.75         7.9         58.0         91.0           4 G 0.75         8.4         64.0         109.0           5 G 0.75         9.1         77.0         136.0           7 G 0.75         9.7         102.0         174.0           12 G 0.75         12.7         177.0         270.0           2 X 1         7.9         56.0         91.0           3 G 1         8.2         65.0         107.0           2 X 1         7.9         56.0         91.0           3 G 1         8.2         65.0         107.0           4 G 1         8.8         78.0         137.0           4 G 1         8.8         78.0         137.0           4 G 1	n x mm²	externo Ø	kg/km	kg/km
3 G 0,5 7,3 46,0 78,0 4 G 0,5 7,9 55,0 95,0 5 G 0,5 8,4 66,0 111,0 7 G 0,5 9,1 81,0 140,0 12 G 0,5 11,5 139,0 227,0  2 X 0,75 7,5 46,0 77,0 3 G 0,75 7,9 58,0 91,0 4 G 0,75 8,4 64,0 109,0 5 G 0,75 9,1 77,0 136,0 7 G 0,75 9,7 102,0 174,0 12 G 0,75 12,7 177,0 270,0  2 X 1 7,9 56,0 91,0 3 G 1 8,2 65,0 107,0 4 G 1 8,8 78,0 137,0 5 G 1 9,6 89,0 164,0 7 G 1 10,4 113,0 199,0 12 G 1 13,5 188,0 30,0  2 X 1,5 8,7 65,0 115,0 3 G 1,5 9,7 100,0 173,0 5 G 1,5 11,4 196,0 282,0 12 G 1,5 15,2 280,0 395,0 7 G 2,5 12,5 200,0 319,0 7 G 2,5 12,5 200,0 319,0 7 G 2,5 12,5 200,0 395,0				
3 G 0,5 7,3 46,0 78,0 4 G 0,5 7,9 55,0 95,0 5 G 0,5 8,4 66,0 111,0 7 G 0,5 9,1 81,0 140,0 12 G 0,5 11,5 139,0 227,0  2 X 0,75 7,5 46,0 77,0 3 G 0,75 7,9 58,0 91,0 4 G 0,75 8,4 64,0 109,0 5 G 0,75 9,1 77,0 136,0 7 G 0,75 9,7 102,0 174,0 12 G 0,75 12,7 177,0 270,0  2 X 1 7,9 56,0 91,0 3 G 1 8,2 65,0 107,0 4 G 1 8,8 78,0 137,0 5 G 1 9,6 89,0 164,0 7 G 1 10,4 113,0 199,0 12 G 1 13,5 188,0 30,0  2 X 1,5 8,7 65,0 115,0 3 G 1,5 9,7 100,0 173,0 5 G 1,5 11,4 196,0 282,0 12 G 1,5 15,2 280,0 395,0 7 G 2,5 12,5 200,0 319,0 7 G 2,5 12,5 200,0 319,0 7 G 2,5 12,5 200,0 395,0				
4 G 0,5	2 X 0,5	6,9	41,0	74,0
5 G 0.5       8,4       66,0       111,0         7 G 0.5       9,1       81,0       140,0         12 G 0.5       11,5       139,0       227,0         2 X 0.75       7,5       46,0       77,0         3 G 0.75       7,9       58,0       91,0         4 G 0.75       8,4       64,0       109,0         5 G 0.75       9,1       77,0       136,0         7 G 0.75       9,7       102,0       174,0         12 G 0,75       12,7       177,0       270,0         2 X 1       7,9       56,0       91,0         3 G 1       8,2       65,0       107,0         4 G 1       8,8       78,0       137,0         5 G 1       9,6       89,0       164,0         7 G 1       10,4       113,0       199,0         12 G 1       13,5       188,0       330,0         2 X 1,5       8,7       65,0       115,0         3 G 1,5       9,0       83,0       137,0         4 G 1,5       9,7       100,0       173,0         5 G 1,5       10,6       125,0       210,0         7 G 1,5       11,4       196,0       282,0 </td <td>3 G 0,5</td> <td>7,3</td> <td>46,0</td> <td>78,0</td>	3 G 0,5	7,3	46,0	78,0
7 G 0.5       9,1       81,0       140,0         12 G 0,5       11,5       139,0       227,0         2 X 0.75       7,5       48,0       77,0         3 G 0,75       7,9       58,0       91,0         4 G 0,75       8,4       64,0       109,0         5 G 0,75       9,1       77,0       136,0         7 G 0,75       9,7       102,0       174,0         12 G 0,75       12,7       177,0       270,0         2 X 1       7,9       56,0       91,0         3 G 1       8,2       65,0       107,0         4 G 1       8,8       78,0       137,0         4 G 1       8,8       78,0       137,0         5 G 1       9,6       89,0       164,0         7 G 1       10,4       113,0       199,0         12 G 1       13,5       188,0       330,0         2 X 1,5       8,7       65,0       115,0         3 G 1,5       9,0       83,0       137,0         4 G 1,5       9,7       100,0       173,0         5 G 1,5       10,6       125,0       210,0         7 G 1,5       11,4       196,0       282,0 <td>4 G 0,5</td> <td>7,9</td> <td>55,0</td> <td>95,0</td>	4 G 0,5	7,9	55,0	95,0
12 G 0,5       11,5       139,0       227,0         2 X 0,75       7,5       46,0       77,0         3 G 0,75       7,9       58,0       91,0         4 G 0,75       8,4       64,0       109,0         5 G 0,75       9,1       77,0       136,0         7 G 0,75       9,7       102,0       174,0         12 G 0,75       12,7       177,0       270,0         2 X 1       7,9       56,0       91,0         3 G 1       8,2       65,0       107,0         4 G 1       8,8       78,0       137,0         5 G 1       9,6       89,0       164,0         7 G 1       10,4       113,0       199,0         12 G 1       13,5       188,0       330,0         2 X 1,5       8,7       65,0       115,0         3 G 1,5       9,0       83,0       137,0         4 G 1,5       9,7       100,0       173,0         5 G 1,5       10,6       125,0       210,0         7 G 1,5       11,4       196,0       282,0         12 G 1,5       15,2       280,0       433,0         2 X 2,5       10,0       112,0       16	5 G 0,5	8,4	66,0	111,0
2 X 0,75       7,5       46,0       77,0         3 G 0,75       7,9       58,0       91,0         4 G 0,75       8,4       64,0       109,0         5 G 0,75       9,1       77,0       136,0         7 G 0,75       9,7       102,0       174,0         12 G 0,75       12,7       177,0       270,0         2 X 1       7,9       56,0       91,0         3 G 1       8,2       65,0       107,0         4 G 1       8,8       78,0       137,0         5 G 1       9,6       89,0       164,0         7 G 1       10,4       113,0       199,0         12 G 1       13,5       188,0       330,0         2 X 1,5       8,7       65,0       115,0         3 G 1,5       9,0       83,0       137,0         4 G 1,5       9,7       100,0       173,0         5 G 1,5       10,6       125,0       210,0         7 G 1,5       11,4       196,0       282,0         12 G 1,5       15,2       280,0       433,0         2 X 2,5       10,0       112,0       160,0         3 G 2,5       10,5       146,0       210	7 G 0,5	9,1	81,0	140,0
3 G 0,75       7,9       58,0       91,0         4 G 0,75       8,4       64,0       109,0         5 G 0,75       9,1       77,0       136,0         7 G 0,75       9,7       102,0       174,0         12 G 0,75       12,7       177,0       270,0         2 X 1       7,9       56,0       91,0         3 G 1       8,2       65,0       107,0         4 G 1       8,8       78,0       137,0         5 G 1       9,6       89,0       164,0         7 G 1       10,4       113,0       199,0         12 G 1       13,5       188,0       330,0         2 X 1,5       8,7       65,0       115,0         3 G 1,5       9,0       83,0       137,0         4 G 1,5       9,7       100,0       173,0         5 G 1,5       10,6       125,0       210,0         7 G 1,5       11,4       196,0       282,0         12 G 1,5       15,2       280,0       433,0         2 X 2,5       10,0       112,0       160,0         3 G 2,5       10,5       146,0       210,0         4 G 2,5       11,5       167,0       2	12 G 0,5	11,5	139,0	227,0
3 G 0,75       7,9       58,0       91,0         4 G 0,75       8,4       64,0       109,0         5 G 0,75       9,1       77,0       136,0         7 G 0,75       9,7       102,0       174,0         12 G 0,75       12,7       177,0       270,0         2 X 1       7,9       56,0       91,0         3 G 1       8,2       65,0       107,0         4 G 1       8,8       78,0       137,0         5 G 1       9,6       89,0       164,0         7 G 1       10,4       113,0       199,0         12 G 1       13,5       188,0       330,0         2 X 1,5       8,7       65,0       115,0         3 G 1,5       9,0       83,0       137,0         4 G 1,5       9,7       100,0       173,0         5 G 1,5       10,6       125,0       210,0         7 G 1,5       11,4       196,0       282,0         12 G 1,5       15,2       280,0       433,0         2 X 2,5       10,0       112,0       160,0         3 G 2,5       10,5       146,0       210,0         4 G 2,5       11,5       167,0       2				
4 G 0,75       8,4       64,0       109,0         5 G 0,75       9,1       77,0       136,0         7 G 0,75       9,7       102,0       174,0         12 G 0,75       12,7       177,0       270,0         2 X 1       7,9       56,0       91,0         3 G 1       8,2       65,0       107,0         4 G 1       8,8       78,0       137,0         5 G 1       9,6       89,0       164,0         7 G 1       10,4       113,0       199,0         12 G 1       13,5       188,0       330,0         2 X 1,5       8,7       65,0       115,0         3 G 1,5       9,0       83,0       137,0         4 G 1,5       9,7       100,0       173,0         5 G 1,5       10,6       125,0       210,0         7 G 1,5       11,4       196,0       282,0         12 G 1,5       15,2       280,0       433,0         2 X 2,5       10,0       112,0       160,0         3 G 2,5       10,5       146,0       210,0         4 G 2,5       11,5       167,0       267,0         5 G 2,5       12,5       200,0 <td< td=""><td>2 X 0,75</td><td>7,5</td><td>46,0</td><td>77,0</td></td<>	2 X 0,75	7,5	46,0	77,0
5 G 0,75       9,1       77,0       136,0         7 G 0,75       9,7       102,0       174,0         12 G 0,75       12,7       177,0       270,0         2 X 1       7,9       56,0       91,0         3 G 1       8,2       65,0       107,0         4 G 1       8,8       78,0       137,0         5 G 1       9,6       89,0       164,0         7 G 1       10,4       113,0       199,0         12 G 1       13,5       188,0       330,0         2 X 1,5       8,7       65,0       115,0         3 G 1,5       9,0       83,0       137,0         4 G 1,5       9,7       100,0       173,0         5 G 1,5       10,6       125,0       210,0         7 G 1,5       11,4       196,0       282,0         12 G 1,5       15,2       280,0       433,0         2 X 2,5       10,0       112,0       160,0         3 G 2,5       10,5       146,0       210,0         4 G 2,5       11,5       167,0       267,0         5 G 2,5       12,5       200,0       319,0         7 G 2,5       14,0       288,0 <t< td=""><td>3 G 0,75</td><td>7,9</td><td>58,0</td><td>91,0</td></t<>	3 G 0,75	7,9	58,0	91,0
7 G 0,75 9,7 102,0 174,0 12 G 0,75 12,7 177,0 270,0  2 X 1 7,9 56,0 91,0 3 G 1 8,2 65,0 107,0 4 G 1 8,8 78,0 137,0 5 G 1 9,6 89,0 164,0 7 G 1 10,4 113,0 199,0 12 G 1 13,5 188,0 330,0  2 X 1,5 8,7 65,0 115,0 3 G 1,5 9,0 83,0 137,0 4 G 1,5 9,7 100,0 173,0 5 G 1,5 10,6 125,0 210,0 7 G 1,5 11,4 196,0 282,0 12 G 1,5 15,2 280,0 433,0  2 X 2,5 10,0 112,0 160,0 3 G 2,5 10,5 146,0 210,0 4 G 2,5 11,5 167,0 267,0 5 G 2,5 12,5 200,0 319,0 7 G 2,5 14,0 288,0 395,0	4 G 0,75	8,4	64,0	109,0
12 G 0,75       12,7       177,0       270,0         2 X 1       7,9       56,0       91,0         3 G 1       8,2       65,0       107,0         4 G 1       8,8       78,0       137,0         5 G 1       9,6       89,0       164,0         7 G 1       10,4       113,0       199,0         12 G 1       13,5       188,0       330,0         2 X 1,5       8,7       65,0       115,0         3 G 1,5       9,0       83,0       137,0         4 G 1,5       9,7       100,0       173,0         5 G 1,5       10,6       125,0       210,0         7 G 1,5       11,4       196,0       282,0         12 G 1,5       15,2       280,0       433,0         2 X 2,5       10,0       112,0       160,0         3 G 2,5       10,5       146,0       210,0         4 G 2,5       11,5       167,0       267,0         5 G 2,5       12,5       200,0       319,0         7 G 2,5       14,0       288,0       395,0	5 G 0,75	9,1	77,0	136,0
2 X 1     7,9     56,0     91,0       3 G 1     8,2     65,0     107,0       4 G 1     8,8     78,0     137,0       5 G 1     9,6     89,0     164,0       7 G 1     10,4     113,0     199,0       12 G 1     13,5     188,0     330,0       2 X 1,5     8,7     65,0     115,0       3 G 1,5     9,0     83,0     137,0       4 G 1,5     9,7     100,0     173,0       5 G 1,5     10,6     125,0     210,0       7 G 1,5     11,4     196,0     282,0       12 G 1,5     15,2     280,0     433,0       2 X 2,5     10,0     112,0     160,0       3 G 2,5     10,5     146,0     210,0       4 G 2,5     11,5     167,0     267,0       5 G 2,5     12,5     200,0     319,0       7 G 2,5     14,0     288,0     395,0	7 G 0,75	9,7	102,0	174,0
3 G 1 8,2 65,0 107,0 4 G 1 8,8 78,0 137,0 5 G 1 9,6 89,0 164,0 7 G 1 10,4 113,0 199,0 12 G 1 13,5 188,0 330,0  2 X 1,5 8,7 65,0 115,0 3 G 1,5 9,0 83,0 137,0 4 G 1,5 9,7 100,0 173,0 5 G 1,5 10,6 125,0 210,0 7 G 1,5 11,4 196,0 282,0 12 G 1,5 15,2 280,0 433,0  2 X 2,5 10,0 112,0 160,0 3 G 2,5 10,5 146,0 210,0 4 G 2,5 11,5 167,0 267,0 5 G 2,5 12,5 200,0 319,0 7 G 2,5 14,0 288,0 395,0	12 G 0,75	12,7	177,0	270,0
3 G 1 8,2 65,0 107,0 4 G 1 8,8 78,0 137,0 5 G 1 9,6 89,0 164,0 7 G 1 10,4 113,0 199,0 12 G 1 13,5 188,0 330,0  2 X 1,5 8,7 65,0 115,0 3 G 1,5 9,0 83,0 137,0 4 G 1,5 9,7 100,0 173,0 5 G 1,5 10,6 125,0 210,0 7 G 1,5 11,4 196,0 282,0 12 G 1,5 15,2 280,0 433,0  2 X 2,5 10,0 112,0 160,0 3 G 2,5 10,5 146,0 210,0 4 G 2,5 11,5 167,0 267,0 5 G 2,5 12,5 200,0 319,0 7 G 2,5 14,0 288,0 395,0	7.10			
4 G 1       8,8       78,0       137,0         5 G 1       9,6       89,0       164,0         7 G 1       10,4       113,0       199,0         12 G 1       13,5       188,0       330,0         2 X 1,5       8,7       65,0       115,0         3 G 1,5       9,0       83,0       137,0         4 G 1,5       9,7       100,0       173,0         5 G 1,5       10,6       125,0       210,0         7 G 1,5       11,4       196,0       282,0         12 G 1,5       15,2       280,0       433,0         2 X 2,5       10,0       112,0       160,0         3 G 2,5       10,5       146,0       210,0         4 G 2,5       11,5       167,0       267,0         5 G 2,5       12,5       200,0       319,0         7 G 2,5       14,0       288,0       395,0	2 X 1	7,9	56,0	91,0
5 G 1       9,6       89,0       164,0         7 G 1       10,4       113,0       199,0         12 G 1       13,5       188,0       330,0         2 X 1,5       8,7       65,0       115,0         3 G 1,5       9,0       83,0       137,0         4 G 1,5       9,7       100,0       173,0         5 G 1,5       10,6       125,0       210,0         7 G 1,5       11,4       196,0       282,0         12 G 1,5       15,2       280,0       433,0         2 X 2,5       10,0       112,0       160,0         3 G 2,5       10,5       146,0       210,0         4 G 2,5       11,5       167,0       267,0         5 G 2,5       12,5       200,0       319,0         7 G 2,5       14,0       288,0       395,0	3 G 1	8,2	65,0	107,0
7 G 1 10,4 113,0 199,0 12 G 1 13,5 188,0 330,0  2 X 1,5 8,7 65,0 115,0 3 G 1,5 9,0 83,0 137,0 4 G 1,5 9,7 100,0 173,0 5 G 1,5 10,6 125,0 210,0 7 G 1,5 11,4 196,0 282,0 12 G 1,5 15,2 280,0 433,0  2 X 2,5 10,0 112,0 160,0 3 G 2,5 10,5 146,0 210,0 4 G 2,5 11,5 167,0 267,0 5 G 2,5 12,5 200,0 319,0 7 G 2,5 14,0 288,0 395,0	4 G 1	8,8	78,0	137,0
12 G 1 13,5 188,0 330,0  2 X 1,5 8,7 65,0 115,0  3 G 1,5 9,0 83,0 137,0  4 G 1,5 9,7 100,0 173,0  5 G 1,5 10,6 125,0 210,0  7 G 1,5 11,4 196,0 282,0  12 G 1,5 15,2 280,0 433,0  2 X 2,5 10,0 112,0 160,0  3 G 2,5 10,5 146,0 210,0  4 G 2,5 11,5 167,0 267,0  5 G 2,5 12,5 200,0 319,0  7 G 2,5 14,0 288,0 395,0	5 G 1	9,6	89,0	164,0
2 X 1,5 8,7 65,0 115,0 3 G 1,5 9,0 83,0 137,0 4 G 1,5 9,7 100,0 173,0 5 G 1,5 10,6 125,0 210,0 7 G 1,5 11,4 196,0 282,0 12 G 1,5 15,2 280,0 433,0  2 X 2,5 10,0 112,0 160,0 3 G 2,5 10,5 146,0 210,0 4 G 2,5 11,5 167,0 267,0 5 G 2,5 12,5 200,0 319,0 7 G 2,5 14,0 288,0 395,0	7 G 1	10,4	113,0	199,0
3 G 1,5 9,0 83,0 137,0 4 G 1,5 9,7 100,0 173,0 5 G 1,5 10,6 125,0 210,0 7 G 1,5 11,4 196,0 282,0 12 G 1,5 15,2 280,0 433,0  2 X 2,5 10,0 112,0 160,0 3 G 2,5 10,5 146,0 210,0 4 G 2,5 11,5 167,0 267,0 5 G 2,5 12,5 200,0 319,0 7 G 2,5 14,0 288,0 395,0	12 G 1	13,5	188,0	330,0
3 G 1,5 9,0 83,0 137,0 4 G 1,5 9,7 100,0 173,0 5 G 1,5 10,6 125,0 210,0 7 G 1,5 11,4 196,0 282,0 12 G 1,5 15,2 280,0 433,0  2 X 2,5 10,0 112,0 160,0 3 G 2,5 10,5 146,0 210,0 4 G 2,5 11,5 167,0 267,0 5 G 2,5 12,5 200,0 319,0 7 G 2,5 14,0 288,0 395,0				
4 G 1,5     9,7     100,0     173,0       5 G 1,5     10,6     125,0     210,0       7 G 1,5     11,4     196,0     282,0       12 G 1,5     15,2     280,0     433,0       2 X 2,5     10,0     112,0     160,0       3 G 2,5     10,5     146,0     210,0       4 G 2,5     11,5     167,0     267,0       5 G 2,5     12,5     200,0     319,0       7 G 2,5     14,0     288,0     395,0	2 X 1,5	8,7	65,0	115,0
5 G 1,5     10,6     125,0     210,0       7 G 1,5     11,4     196,0     282,0       12 G 1,5     15,2     280,0     433,0       2 X 2,5     10,0     112,0     160,0       3 G 2,5     10,5     146,0     210,0       4 G 2,5     11,5     167,0     267,0       5 G 2,5     12,5     200,0     319,0       7 G 2,5     14,0     288,0     395,0	3 G 1,5	9,0	83,0	137,0
7 G 1,5 11,4 196,0 282,0 12 G 1,5 15,2 280,0 433,0  2 X 2,5 10,0 112,0 160,0 3 G 2,5 10,5 146,0 210,0 4 G 2,5 11,5 167,0 267,0 5 G 2,5 12,5 200,0 319,0 7 G 2,5 14,0 288,0 395,0	4 G 1,5	9,7	100,0	173,0
12 G 1,5 15,2 280,0 433,0  2 X 2,5 10,0 112,0 160,0  3 G 2,5 10,5 146,0 210,0  4 G 2,5 11,5 167,0 267,0  5 G 2,5 12,5 200,0 319,0  7 G 2,5 14,0 288,0 395,0	5 G 1,5	10,6	125,0	210,0
2 X 2,5 10,0 112,0 160,0 3 G 2,5 10,5 146,0 210,0 4 G 2,5 11,5 167,0 267,0 5 G 2,5 12,5 200,0 319,0 7 G 2,5 14,0 288,0 395,0	7 G 1,5	11,4	196,0	282,0
3 G 2,5 10,5 146,0 210,0 4 G 2,5 11,5 167,0 267,0 5 G 2,5 12,5 200,0 319,0 7 G 2,5 14,0 288,0 395,0	12 G 1,5	15,2	280,0	433,0
3 G 2,5 10,5 146,0 210,0 4 G 2,5 11,5 167,0 267,0 5 G 2,5 12,5 200,0 319,0 7 G 2,5 14,0 288,0 395,0				
4 G 2,5 11,5 167,0 267,0 5 G 2,5 12,5 200,0 319,0 7 G 2,5 14,0 288,0 395,0	2 X 2,5	10,0	112,0	160,0
5 G 2,5 12,5 200,0 319,0 7 G 2,5 14,0 288,0 395,0	3 G 2,5	10,5	146,0	210,0
7 G 2,5 14,0 288,0 395,0	4 G 2,5	11,5	167,0	267,0
	5 G 2,5	12,5	200,0	319,0
12 G 2,5 18,2 477,0 640,0	7 G 2,5	14,0	288,0	395,0
	12 G 2,5	18,2	477,0	640,0













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dimensional	Diametro	Peso do cobre	Peso
n x mm²	externo Ø	kg/km	kg/km
	mm		
4 G 4	13,7	237,0	369,0
5 G 4	15,3	280,0	446,0
7 G 4	16,6	388,0	556,0
4 G 6	16,1	318,0	503,0
5 G 6	17,3	441,0	611,0
7 G 6	18,8	505,0	798,0
			0
4 G 10	19,4	558,0	764,0
5 G 10	21,8	714,0	943,0
4 G 16	22,6	804,0	1.080,0
5 G 16	25,2	1.053,0	1.325,0
4 G 25	28,9	1.289,0	1.624,0
5 G 25	31,8	1.446,0	2.270,0
4 G 35	32,2	1.680,0	2.135,0
5 G 35	36,4	1.975,0	2.771,0
4 G 50	38,8	2.342,0	3.362,0
4 G 70	43,7	3.103,0	3.719,0
4 G 95	50,4	4.055,0	5.849,0
4 G 120	56,8	5.225,0	7.509,0











