

Code

RZC-RZ1-ALUV

Voltage Rating

0.6/1 kV

Standard

TS IEC 60502-1, VDE 0276

IEC 60228

EN 61034

EN 50267

EN 60332-3

Conductor

Smoke Density

Halogen Free

Flame Retardant (Cat C)

Reaction to Fire Classification (CPR)

EN 60332-1-2

Flame Retardant

Conductor

Stranded Aluminum Conductor (Class 2)

Insulation

XLPE (Cross-linked Polyethylene)

Filler

Halogen Free Filler

Armour

-

Sheath

Halogen Free Sheath – UV Resistance

Technical Data

Max. Operating Temperature

90°C

Short Circuit Temperature

250°C (max.5 sec)

Bending Radius

12D (D : Overall Diameter)

Test Voltage

3,5 kV

Application :

Used in energy networks in refineries, mines, hotels, schools, tunnels, high constructions, hospitals, power plants, data processing centers, business centers where there is a risk of fire.



ISTITUTO ITALIANO DEL MARCHIO DI QUALITA'

RIZZANI

CAVI

| Nominal Cross Section (mm ²) | Overall Diameter (mm) | Net Weight (kg/km) | Delivery Length (m) | Resistance at 20°C (ohm/km) | Current Carrying Capacity | |
|---|--------------------------|-----------------------|------------------------|--------------------------------|---------------------------|--------------------|
| | | | | | In the Ground at 20°C | In the Air at 30°C |
| 1x10 | 7,9 | 86,8 | 1000 | 3,08 | - | - |
| 1x16 | 8,9 | 112,9 | 1000 | 1,91 | - | - |
| 1x25 | 10,5 | 153,8 | 1000 | 1,20 | 114 | 106 |
| 1x35 | 11,5 | 193,7 | 1000 | 0,868 | 136 | 130 |
| 1x50 | 12,8 | 237,8 | 1000 | 0,641 | 162 | 161 |
| 1x70 | 15,0 | 314,0 | 1000 | 0,443 | 199 | 204 |
| 1x95 | 16,6 | 412,0 | 1000 | 0,320 | 238 | 252 |
| 1x120 | 18,3 | 495,8 | 1000 | 0,253 | 272 | 295 |
| 1x150 | 20,9 | 617,3 | 1000 | 0,206 | 305 | 339 |
| 1x185 | 23,2 | 768,9 | 1000 | 0,164 | 347 | 395 |
| 1x240 | 25,7 | 956,4 | 1000 | 0,125 | 404 | 472 |
| 1x300 | 28,5 | 1203,1 | 1000 | 0,100 | 457 | 547 |
| 1x400 | 32,1 | 1558,1 | 1000 | 0,0778 | 525 | 643 |
| 1x500 | 35,8 | 1919,9 | 500 | 0,0605 | 601 | 754 |
| 1x630 | 40,3 | 2415,4 | 500 | 0,0469 | 687 | 882 |

| Nominal Cross Section (mm ²) | Overall Diameter (mm) | Net Weight (kg/km) | Delivery Length (m) | Resistance at 20°C (ohm/km) | Current Carrying Capacity | |
|---|--------------------------|-----------------------|------------------------|--------------------------------|---------------------------|--------------------|
| | | | | | In the Ground at 20°C | In the Air at 30°C |
| 2x10 | 14,8 | 311,5 | 1000 | 3,08 | - | - |
| 2x16 | 16,8 | 408,2 | 1000 | 1,91 | - | - |
| 2x25 | 19,9 | 577,3 | 1000 | 1,20 | 112 | 102 |
| 2x35 | 22,2 | 723,5 | 1000 | 0,868 | 135 | 126 |
| 2x50 | 25,0 | 920,0 | 1000 | 0,641 | 158 | 149 |
| 2x70 | 29,8 | 1269,3 | 1000 | 0,443 | 196 | 191 |
| 2x95 | 33,0 | 1604,6 | 1000 | 0,320 | 234 | 234 |
| 2x120 | 36,7 | 1984,1 | 1000 | 0,253 | 268 | 273 |
| 2x150 | 41,8 | 2515,0 | 1000 | 0,206 | 300 | 311 |
| 2x185 | 46,9 | 3151,4 | 1000 | 0,164 | 342 | 360 |
| 2x240 | 52,0 | 3903,3 | 500 | 0,125 | 398 | 427 |

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CAVI

| Nominal Cross Section (mm ²) | Overall Diameter (mm) | Net Weight (kg/km) | Delivery Length (m) | Resistance at 20°C (ohm/km) | Current Carrying Capacity | |
|---|--------------------------|-----------------------|------------------------|--------------------------------|---------------------------|--------------------|
| | | | | | In the Ground at 20°C | In the Air at 30°C |
| 3x10 | 15,6 | 349,3 | 1000 | 3,08 | - | - |
| 3x16 | 17,7 | 466,8 | 1000 | 1,91 | - | - |
| 3x25 | 21,1 | 668,4 | 1000 | 1,20 | 112 | 102 |
| 3x35 | 23,6 | 809,1 | 1000 | 0,868 | 135 | 126 |
| 3x50 | 26,6 | 1002,6 | 1000 | 0,641 | 158 | 149 |
| 3x70 | 31,9 | 1414,5 | 1000 | 0,443 | 196 | 191 |
| 3x95 | 35,3 | 1805,1 | 1000 | 0,320 | 234 | 234 |
| 3x120 | 39,3 | 2233,7 | 1000 | 0,253 | 268 | 273 |
| 3x150 | 44,9 | 2798,7 | 500 | 0,206 | 300 | 311 |
| 3x185 | 50,3 | 3452,8 | 500 | 0,164 | 342 | 360 |
| 3x240 | 55,8 | 4144,9 | 500 | 0,125 | 398 | 427 |
| 3x300 | 61,8 | 5282,4 | 250 | 0,100 | 457 | 507 |

| Nominal Cross Section (mm ²) | Overall Diameter (mm) | Net Weight (kg/km) | Delivery Length (m) | Resistance at 20°C (ohm/km) | Current Carrying Capacity | |
|---|--------------------------|-----------------------|------------------------|--------------------------------|---------------------------|--------------------|
| | | | | | In the Ground at 20°C | In the Air at 30°C |
| 3x16+10 | 18,7 | 516,2 | 1000 | 1,91 - 3,08 | - | - |
| 3x25+16 | 22,2 | 693,2 | 1000 | 1,20 - 1,91 | 112 | 102 |
| 3x35+16 | 24,3 | 862,0 | 1000 | 0,868 - 1,91 | 135 | 126 |
| 3x50+25 | 27,8 | 1090,2 | 1000 | 0,641 - 1,20 | 158 | 149 |
| 3x70+35 | 33,0 | 1493,2 | 1000 | 0,443 - 0,868 | 196 | 191 |
| 3x95+50 | 36,8 | 1928,8 | 1000 | 0,320 - 0,641 | 234 | 234 |
| 3x120+70 | 41,6 | 2397,1 | 500 | 0,253 - 0,443 | 268 | 273 |
| 3x150+70 | 46,2 | 2949,4 | 500 | 0,206 - 0,443 | 300 | 311 |
| 3x185+95 | 51,8 | 3778,5 | 500 | 0,164 - 0,320 | 342 | 360 |
| 3x240+120 | 57,5 | 4622,2 | 500 | 0,125 - 0,253 | 398 | 427 |
| 3x300+150 | 64,5 | 5730,9 | 250 | 0,100 - 0,206 | 457 | 507 |
| 3x400+185 | 72,4 | 7571,7 | 250 | 0,0778 - 0,164 | 529 | 600 |



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CAVI

| Nominal Cross Section (mm ²) | Overall Diameter (mm) | Net Weight (kg/km) | Delivery Length (m) | Resistance at 20°C (ohm/km) | Current Carrying Capacity | |
|--|-----------------------|--------------------|---------------------|-----------------------------|---------------------------|--------------------|
| | | | | | In the Ground at 20°C | In the Air at 30°C |
| 4x10 | 17,0 | 401,8 | 1000 | 3,08 | - | - |
| 4x16 | 19,3 | 533,0 | 1000 | 1,91 | - | - |
| 4x25 | 23,1 | 774,7 | 1000 | 1,20 | 112 | 102 |
| 4x35 | 25,8 | 966,8 | 1000 | 0,868 | 135 | 126 |
| 4x50 | 29,4 | 1206,5 | 1000 | 0,641 | 158 | 149 |
| 4x70 | 35,2 | 1690,4 | 1000 | 0,443 | 196 | 191 |
| 4x95 | 39,1 | 2169,9 | 1000 | 0,320 | 234 | 234 |
| 4x120 | 43,6 | 2695,6 | 500 | 0,253 | 268 | 273 |
| 4x150 | 49,8 | 3379,2 | 500 | 0,206 | 300 | 311 |
| 4x185 | 55,8 | 4256,7 | 500 | 0,164 | 342 | 360 |
| 4x240 | 61,9 | 5108,1 | 250 | 0,125 | 398 | 427 |
| 4x300 | 69,1 | 6556,3 | 250 | 0,100 | 457 | 507 |
| 4x400 | 77,8 | 8599,3 | 250 | 0,0778 | 529 | 600 |

| Nominal Cross Section (mm ²) | Overall Diameter (mm) | Net Weight (kg/km) | Delivery Length (m) | Resistance at 20°C (ohm/km) | Current Carrying Capacity | |
|--|-----------------------|--------------------|---------------------|-----------------------------|---------------------------|--------------------|
| | | | | | In the Ground at 20°C | In the Air at 30°C |
| 5x10 | 18,4 | 580,1 | 1000 | 3,08 | - | - |
| 5x16 | 21,0 | 744,3 | 1000 | 1,91 | - | - |
| 5x25 | 25,2 | 1019,4 | 1000 | 1,20 | 112 | 102 |
| 5x35 | 28,4 | 1307,5 | 1000 | 0,868 | 135 | 126 |
| 5x50 | 32,4 | 1589,5 | 1000 | 0,641 | 158 | 149 |
| 5x70 | 38,9 | 2107,2 | 500 | 0,443 | 196 | 191 |
| 5x95 | 43,2 | 2748,7 | 500 | 0,320 | 234 | 234 |
| 5x120 | 48,1 | 3383,1 | 500 | 0,253 | 268 | 273 |
| 5x150 | 55,0 | 4309,4 | 500 | 0,206 | 300 | 311 |
| 5x185 | 61,7 | 5298,2 | 250 | 0,164 | 342 | 360 |
| 5x240 | 68,6 | 6494,9 | 250 | 0,125 | 398 | 427 |
| 5x300 | 76,5 | 8206,9 | 250 | 0,100 | 457 | 507 |
| 5x400 | 86,2 | 10728,5 | 250 | 0,0778 | 529 | 600 |



RIZZANI CAVI

| Nominal Cross Section (mm ²) | Overall Diameter (mm) | Net Weight (kg/km) | Delivery Length (m) | Resistance at 20°C (ohm/km) | Current Carrying Capacity | |
|---|--------------------------|-----------------------|------------------------|--------------------------------|---------------------------|--------------------|
| | | | | | In the Ground at 20°C | In the Air at 30°C |
| 4x16+10 | 20,5 | 667,6 | 1000 | 1,91 - 3,08 | - | - |
| 4x25+16 | 24,4 | 925,4 | 1000 | 1,20 - 1,91 | 112 | 102 |
| 4x35+16 | 26,9 | 1133,8 | 1000 | 0,868 - 1,91 | 135 | 126 |
| 4x50+25 | 31,0 | 1455,6 | 1000 | 0,641 - 1,20 | 158 | 149 |
| 4x70+35 | 36,9 | 1980,2 | 500 | 0,443 - 0,868 | 196 | 191 |
| 4x95+50 | 41,2 | 2560,4 | 500 | 0,320 - 0,641 | 234 | 234 |
| 4x120+70 | 46,4 | 3254,5 | 500 | 0,253 - 0,268 | 268 | 273 |
| 4x150+70 | 51,9 | 3923,5 | 500 | 0,206 - 0,268 | 300 | 311 |
| 4x185+95 | 58,2 | 4964,7 | 250 | 0,164 - 0,320 | 342 | 360 |
| 4x240+120 | 64,6 | 6142,5 | 250 | 0,125 - 0,253 | 398 | 427 |
| 4x300+150 | 72,4 | 7812,0 | 250 | 0,100 - 0,206 | 457 | 507 |
| 4x400+185 | 81,4 | 10008,5 | 250 | 0,0778 - 0,164 | 529 | 600 |

Note : Current carrying capacities are valid at 30°C ambient temperature.