



CABLE STRUCTURE

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|---------------------|---|
| Conductor | Electrolytic annealed, class 5 stranded plain copper wires (tinned conductor on request) |
| Insulation | Special thermoplastic polyester elastomer, TPE-E Black cores number coded with a green-yellow core |
| Seperator | Polyester tape or textile tape |
| Screen | Tinned copper wire braiding |
| Outer Sheath | Thermoplastic polyurethane TMPU (EN 50363-10-2) |
| Color | Grey, Orange or Black Other colors on request |

MAIN CHARACTERISTICS

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|-------------------------------|--|
| Construction | Based on EN 50525-2-21, VDE 0285, VDE 0250 |
| General Requirements | EN 50525-1 |
| Guide to Use | EN 50565-1/2 |
| Electrical Tests | EN 50395 |
| Non - electrical Tests | EN 50396 |
| Conductor Resistance | IEC 60228, VDE 0295, BS 6360 |
| Oil Resistant | IEC 60811-404, VDE 0473-811-404 |

OPERATING CHARACTERISTICS

| | |
|--------------------------------------|---------------------------------------|
| Rated Voltage | 300 /500 V (U0/U) |
| AC Test Voltage | 2 kV |
| Operating Tempetature | |
| <i>In Flexing Use</i> | -5°C to +70°C |
| <i>In Fixed Use</i> | -50°C to +90°C |
| Conductor Short-Circuit Temp. | 250°C |
| Min. Installation Temp. | -40°C |
| Min. Bending Radius | |
| <i>Flexible Use</i> | 12,5 x Outer Diameter |
| <i>Fixed Installation</i> | 5 x Outer Diameter |
| Current Carrying Capacities | Based on VDE 0298-4 Tab.11 and Tab.13 |

APPLICATIONS

These polyurethane sheathed cables are used in electrical tools, mobile equipments, machines, production lines, industrial machinery and movable appliances which work under normal mechanical stress. This cable is also very suitable for oily wet wet areas within production lines and agricultural equipments and machineries. Thanks to it's characteristics they have high resistance to abrasion and tear.



| Cross Section (mm ²) | Nominal Overall Diameter (mm) | Approximate Weight (kg / km) | Min.Bending Radius (fixed installation) (mm) | Max. Resistance of Conductors at 20°C (ohm / km) |
|----------------------------------|-------------------------------|------------------------------|--|--|
| 2x0,50 | 6,50 | 47 | 33 | 39,00 |
| 2x0,75 | 6,70 | 55 | 34 | 26,00 |
| 2x1 | 7,10 | 62 | 36 | 19,50 |
| 2x1,5 | 7,90 | 77 | 40 | 13,30 |
| 2x2,5 | 9,30 | 107 | 47 | 7,98 |
| 2x4 | 10,30 | 143 | 52 | 4,95 |
| 2x6 | 11,90 | 195 | 60 | 3,30 |
| 3x0,50 | 6,80 | 56 | 34 | 39,00 |
| 3x0,75 | 7,10 | 66 | 36 | 26,00 |
| 3x1 | 7,50 | 76 | 38 | 19,50 |
| 3x1,5 | 8,50 | 100 | 43 | 13,30 |
| 3x2,5 | 9,80 | 136 | 49 | 7,98 |
| 3x4 | 11,10 | 190 | 56 | 4,95 |
| 3x6 | 12,60 | 260 | 63 | 3,30 |
| 4x0,50 | 7,30 | 66 | 37 | 39,00 |
| 4x0,75 | 7,50 | 78 | 38 | 26,00 |
| 4x1 | 8,00 | 91 | 40 | 19,50 |
| 4x1,5 | 9,20 | 120 | 46 | 13,30 |
| 4x2,5 | 10,60 | 170 | 53 | 7,98 |
| 4x4 | 12,00 | 240 | 60 | 4,95 |
| 4x6 | 14,00 | 340 | 70 | 3,30 |
| 5x0,50 | 7,80 | 77 | 39 | 39,00 |
| 5x0,75 | 8,30 | 100 | 42 | 26,00 |
| 5x1 | 8,90 | 115 | 45 | 19,50 |
| 5x1,5 | 9,90 | 145 | 50 | 13,30 |
| 5x2,5 | 11,70 | 210 | 59 | 7,98 |
| 5x4 | 13,10 | 295 | 66 | 4,95 |
| 5x6 | 15,30 | 420 | 77 | 3,30 |
| 7x0,50 | 8,40 | 95 | 42 | 39,00 |
| 7x0,75 | 8,80 | 116 | 44 | 26,00 |
| 7x1 | 9,40 | 137 | 47 | 19,50 |
| 7x1,5 | 10,50 | 176 | 53 | 13,30 |
| 7x2,5 | 12,50 | 261 | 63 | 7,98 |
| 12x0,50 | 10,40 | 140 | 52 | 39,00 |
| 12x0,75 | 11,30 | 185 | 57 | 26,00 |
| 12x1 | 12,10 | 216 | 61 | 19,50 |

| Cross Section (mm ²) | Nominal Overall Diameter (mm) | Approximate Weight (kg / km) | Min.Bending Radius (fixed installation) (mm) | Max. Resistance of Conductors at 20°C (ohm / km) |
|----------------------------------|-------------------------------|------------------------------|--|--|
| 12x1,5 | 13,80 | 295 | 69 | 13,30 |
| 12x2,5 | 16,50 | 440 | 83 | 7,98 |
| 18x0,50 | 12,00 | 196 | 60 | 39,00 |
| 18x0,75 | 12,80 | 251 | 64 | 26,00 |
| 18x1 | 14,10 | 316 | 71 | 19,50 |
| 18x1,5 | 15,80 | 415 | 79 | 13,30 |
| 18x2,5 | 19,40 | 655 | 97 | 7,98 |
| 21x0,50 | 12,60 | 216 | 63 | 39,00 |
| 21x0,75 | 13,80 | 295 | 69 | 26,00 |
| 21x1 | 14,80 | 351 | 74 | 19,50 |
| 21x1,5 | 16,80 | 470 | 84 | 13,30 |
| 21x2,5 | 20,40 | 731 | 102 | 7,98 |
| 25x0,50 | 14,30 | 270 | 72 | 39,00 |
| 25x0,75 | 15,40 | 350 | 77 | 26,00 |
| 25x1 | 16,80 | 425 | 84 | 19,50 |
| 25x1,5 | 18,80 | 556 | 94 | 13,30 |
| 25x2,5 | 23,10 | 880 | 116 | 7,98 |
| 27x0,50 | 14,30 | 280 | 72 | 39,00 |
| 27x0,75 | 15,40 | 360 | 77 | 26,00 |
| 27x1 | 16,80 | 441 | 84 | 19,50 |
| 27x1,5 | 18,80 | 581 | 94 | 13,30 |
| 27x2,5 | 23,10 | 920 | 116 | 7,98 |
| 32x0,50 | 15,20 | 321 | 76 | 39,00 |
| 32x0,75 | 16,60 | 422 | 83 | 26,00 |
| 32x1 | 17,90 | 510 | 90 | 19,50 |
| 32x1,5 | 20,50 | 705 | 103 | 13,30 |
| 32x2,5 | 24,90 | 1080 | 125 | 7,98 |
| 36x0,50 | 15,70 | 351 | 79 | 39,00 |
| 36x0,75 | 17,10 | 465 | 86 | 26,00 |
| 36x1 | 18,50 | 562 | 93 | 19,50 |
| 36x1,5 | 21,20 | 780 | 106 | 13,30 |
| 36x2,5 | 25,80 | 1200 | 129 | 7,98 |