
## CABLE STRUCTURE

| | |
|---|---|
| **Conductor** | Electrolytic annealed, class 5 stranded plain copper wires (tinned conductor on request) |
| **Seperator** | A suitable tape may be applied over the conductor |
| **Insulation** | EI4 type cross-linked elastomeric compound, EPR (EN 50363-1) |
| **Outer Sheath** | EM2 type cross-linked elastomeric compound (EN 50363-2-1) |
| **Color** | Black |

## MAIN CHARACTERISTICS

| | |
|---|---|
| **Construction** | Based on EN 50525-2-21, VDE 0285-2-21, IEC 60245-4 |
| **General Requirements** | Based on EN 50525-1, VDE 0285-525-1, IEC 60245-1 |
| **Guide to Use** | Based on EN 50565-1/2, VDE 0298-565-1 |
| **Electrical Tests** | Based on EN 50395, IEC 60245-2 |
| **Non-electrical Tests** | Based on EN 50396, IEC 60245-2 |
| **Conductor Resistance** | Based on IEC 60228, VDE 0295 |
| **Flame Retardant** | Based on IEC 60332-1, VDE 0482-332-1-2 |
| **Oil Resistant** | Based on IEC 60811-404, VDE 0473-811-404 |

## OPERATING CHARACTERISTICS

| | |
|---|---|
| **Rated Voltage** | 450/750 V ($U_o$/U) |
| **AC Test Voltage** | 2,5 kV |
| **Operating Tempetature** | |
| *In Flexing Use* | -25˚C to +60˚C |
| *In Fixed Use* | -40˚C to +90˚C |
| **Conductor Short-Circuit Temp.** | 200˚C (Max. 5 sec) |
| **Min. Installation Temp.** | -25˚C |
| **Min. Bending Radius** | Based on EN 50565-1 Tab. 3 |
| **Current Carrying Capacities** | Based on VDE 0298-4 Tab.13, IEC 60364-5-52 Tab. B.52.12 |

### APPLICATIONS

These rubber sheathed flat flexible cables are mostly used as power and control cables for lifts, cranes, elevators and festoon applications. It's flat form make it require smaller bending radius, good space utilization and highly flexible. Due to it's construction it can be used indoor, outdoor, wet, oily, damp places and explosion hazard areas.

| Cross Section ($mm^2$) | Nominal Overall Diameter (mm) | Approximate Weight (kg / km) | Min.Bending Radius (free movement) (mm) | Max. Resistance of Conductors at 20°C (ohm / km) |
|---|---|---|---|---|
| 3x1,5 | 5,60 x 12,70 | 137 | 22 | 13,30 |
| 3x2,5 | 6,80 x 15,90 | 213 | 27 | 7,98 |
| 3x4 | 7,90 x 18,90 | 307 | 32 | 4,95 |
| 3x6 | 8,60 x 22x40 | 411 | 34 | 3,30 |
| 3x10 | 10,10 x 26,90 | 605 | 40 | 1,91 |
| 3x16 | 11,80 x 30,60 | 859 | 47 | 1,21 |
| 3x25 | 14,00 x 36,70 | 1224 | 70 | 0,78 |
| 3x35 | 15,70 x 41,20 | 1608 | 79 | 0,554 |
| 3x50 | 17,90 x 48,00 | 2191 | 90 | 0,386 |
| 3x70 | 21,20 x 55,50 | 3098 | 127 | 0,272 |
| 3x95 | 23,10 x 60,00 | 3786 | 139 | 0,206 |
| 3x120 | 25,80 x 67,00 | 4877 | 155 | 0,161 |
| 3x150 | 28,40 x 73,20 | 5990 | 170 | 0,129 |
| 3x185 | 31,50 x 80,90 | 7725 | 189 | 0,106 |
| 3x240 | 35,60 x 91,60 | 9580 | 214 | 0,0801 |
| 4x1,5 | 5,90 x 17,00 | 191 | 24 | 13,30 |
| 4x2,5 | 6,50 x 20,00 | 263 | 26 | 7,98 |
| 4x4 | 8,00 x 23,00 | 385 | 32 | 4,95 |
| 4x6 | 8,10 x 25,00 | 463 | 32 | 3,30 |
| 4x10 | 10,00 x 33,20 | 760 | 40 | 1,91 |
| 4x16 | 12,10 x 38,60 | 1123 | 61 | 1,21 |
| 4x25 | 14,50 x 47,60 | 1639 | 73 | 0,78 |
| 4x35 | 16,30 x 53,80 | 2167 | 82 | 0,554 |
| 4x50 | 18,20 x 62,00 | 2894 | 91 | 0,386 |
| 4x70 | 20,50 x 70,00 | 3919 | 123 | 0,272 |
| 4x95 | 23,10 x 78,30 | 4986 | 139 | 0,206 |
| 4x120 | 24,50 x 86,00 | 6049 | 147 | 0,161 |
| 4x150 | 27,00 x 95,90 | 7442 | 162 | 0,129 |
| 4x185 | 27,60 x 116,10 | 9175 | 166 | 0,106 |
| 4x240 | 35,60 x 119,60 | 12630 | 214 | 0,0801 |
| 5x1,5 | 5,60 x 20,00 | 217 | 22 | 13,30 |
| 5x2,5 | 6,60 x 23,00 | 311 | 26 | 7,98 |

| Cross Section ($mm^2$) | Nominal Overall Diameter (mm) | Approximate Weight (kg / km) | Min.Bending Radius (free movement) (mm) | Max. Resistance of Conductors at 20°C (ohm / km) |
|---|---|---|---|---|
| 5x4 | 7,90 x 27,50 | 461 | 32 | 4,95 |
| 5x6 | 8,40 x 30,00 | 576 | 42 | 3,30 |
| 5x10 | 9,80 x 39,30 | 902 | 49 | 1,91 |
| 5x16 | 11,40 x 43,40 | 1263 | 57 | 1,21 |
| 5x25 | 14,40 x 56,80 | 1984 | 72 | 0,78 |
| 5x35 | 15,50 x 62,30 | 2508 | 78 | 0,554 |
| 7x1,5 | 5,60 x 27,60 | 301 | 22 | 13,30 |
| 7x2,5 | 6,80 x 33,70 | 463 | 27 | 7,98 |
| 7x4 | 8,00 x 40,40 | 675 | 32 | 4,95 |
| 7x6 | 8,50 x 43,10 | 828 | 34 | 3,30 |
| 7x10 | 10,00 x 53,70 | 1259 | 40 | 1,91 |
| 7x16 | 13,00 x 65,80 | 2025 | 65 | 1,21 |
| 8x1,5 | 6,20 x 31,00 | 369 | 25 | 13,30 |
| 8x2,5 | 6,40 x 36,00 | 478 | 26 | 7,98 |
| 10x1,5 | 6,30 x 38,40 | 463 | 25 | 13,30 |
| 10x2,5 | 7,20 x 42,60 | 628 | 29 | 7,98 |
| 12x1,5 | 5,80 x 46,90 | 527 | 23 | 13,30 |
| 12x2,5 | 7,40 x 58,00 | 850 | 30 | 7,98 |
| 14x1,5 | 6,80 x 54,50 | 698 | 27 | 13,30 |
| 14x2,5 | 7,70 x 66,90 | 1015 | 31 | 7,98 |
| 16x1,5 | 6,80 x 64,00 | 817 | 27 | 13,30 |
| 16x2,5 | 7,70 x 71,80 | 1068 | 31 | 7,98 |
| 24x1,5 | 6,60 x 92,50 | 1158 | 26 | 13,30 |
| 24x2,5 | 6,00 x 96,30 | 1257 | 24 | 7,98 |