# Copper rope Cu tinned, soft annealed acc. to DIN 48201/1 and DIN VDE 0295

**Conductor material:** Cu, tinned, soft annealed
**Conductor class:** class 2 = stranded

**Application:** Annealed cables are used for earthing purposes in electrical installations. They have a mathematical tensile strength of 200 N/sqmm. Hard-drawn conductors are used primarily as overhead lines. Their mathematical tensile strength is 400 N/sqmm.

**Additional information:** Soft annealed conductors have a calculated tensile strength of 200 N/sqmm, whereas for hard drawn conductors this value is 400 N/sqmm.

Table: Technical characteristics Copper conductor, soft annealed, tinned

| part name | $R_I$ [Ω/km] | $D_A$ [mm] | Cu [kg/km] | G [kg/km] |
|---|---|---|---|---|
| copper conductor, soft annealed, tinned 01X10 qmm (7X1,35 mm) | 1,84 | 4,1 | 96 | 96 |
| copper conductor, soft annealed, tinned 01X16 qmm (7X1,7 mm) | 1,16 | 5,1 | 154 | 154 |
| soft annealed, tinned 01X25 qmm (7x2,1 mm) | 0,727 | 6,3 | 240 | 240 |
| copper conductor, soft annealed, tinned 01X25 qmm (196x0,4 mm) | 0,734 | 6,3 | 250 | 250 |
| copper conductor, soft annealed, tinned 01X35 qmm (07x2,5 mm) | 0,529 | 7,5 | 336 | 336 |
| copper conductor, soft annealed, tinned 01X50 qmm (19x1,8 mm) | 0,391 | 9 | 480 | 480 |
| copper conductor, soft annealed, tinned 01X70 qmm (19x2,1 mm) | 0,27 | 10,5 | 672 | 672 |
| copper conductor, soft annealed, tinned 01X95 qmm (19x2,5 mm) | 0,195 | 12,5 | 912 | 912 |
| copper conductor, soft annealed, tinned 01X120 qmm (37x1,99 mm) | 0,154 | 14,1 | 1152 | 1152 |
| copper conductor, soft annealed, tinned 01X120 qmm (19x2,8 mm) | 0,154 | 14 | 1152 | 1152 |
| copper conductor, soft annealed, tinned 01X150 qmm (37x2,24 mm) | 0,126 | 15,7 | 1440 | 1440 |
| copper conductor, soft annealed, tinned 01X150 qmm (37x2,25 mm) | 0,126 | 15,8 | 1470 | 1470 |

| part name | $R_I$ [Ω/km] | $D_A$ [mm] | Cu [kg/km] | G [kg/km] |
|---|---|---|---|---|
| Kupferseil, weich, verzinnt 01X150 qmm RMv Aufbau 37x2,32 mm | 0,126 | 15 | 1440 | 1440 |
| copper conductor, soft annealed, tinned 01X150 qmm (37x53X0,3 mm) | 0,124 | 15,8 | 1470 | 1470 |
| copper conductor, soft annealed, tinned 01X185 qmm (37x2,5 mm) | 0,1 | 17,5 | 1776 | 1776 |
| Kupferseil, weich, verzinnt 01X185 qmm RMv Aufbau 37x2.59 mm | 0,1 | 17,5 | 1776 | 1776 |
| copper conductor, soft annealed, tinned 01X240 qmm (61x2,21 mm) | 0,0762 | 20,2 | 2304 | 2304 |
| copper conductor, soft annealed, tinned 01X240 qmm (61x2,25 mm) | 0,0762 | 20,2 | 2304 | 2304 |
| Kupferseil, weich, verzinnt 01X240 qmm RMv Aufbau 61x2,32 mm | 0,0762 | 19 | 2304 | 2304 |
| copper conductor, soft annealed, tinned 01X300 qmm (61x2,5 mm) | 0,0607 | 23,1 | 2880 | 2880 |

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|---|---|
| RI | Conductor resistance |
| DA | Outer diameter approx. |
| Cu | Copper weight (GER) |
| G | weight |