





|                                                                                   |                                                                                                                                                                                                                                                                        |                                                                                    |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  | <br><br><br><br> | <b>Adapted to DIN VDE 285,<br/>DIN EN 50525</b>                                    |
|                                                                                   |                                                                                                                                                                                                                                                                        | PVC insulated and full-polyurethane sheathed, oil-resistant flexible control cable |

| Construction:                  |                                                                                                                                                                                         |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conductors:</b>             | annealed copper flexible conductor, class 5 acc. to DIN VDE 0295                                                                                                                        |
| <b>Insulation:</b>             | special oil-resistant PVC compound                                                                                                                                                      |
| <b>Core identification:</b>    | <b>-JZ:</b> one core green-yellow, all other cores black with continuous white numbering to DIN VDE 0293<br><b>-OZ:</b> all cores black with continuous white numbering to DIN VDE 0293 |
| <b>Outer sheath:</b>           | special full-polyurethane                                                                                                                                                               |
| <b>Colour of outer sheath:</b> | grey RAL 7001 (available in other colours)                                                                                                                                              |

| Characteristic:                       |                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Nominal Voltage:</b>               | 300/500 V                                                                               |
| <b>Test voltage 50Hz:</b>             | 4000 V                                                                                  |
| <b>Temperature range:</b>             | flexing: -20°C to +80°C<br>fixed: -40°C to +80°C                                        |
| <b>Minimum bending radius:</b>        | free movement: 7,5 x cable Ø<br>fixed installation: 4 x cable Ø                         |
| <b>Flame propagation:</b>             | acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2                           |
| <b>Standard length cable packing:</b> | 500 m or 1000 m on drums. Other forms of packing and delivery are available on request. |

| Application:                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Extremely robust control cable with high abrasion and tear resistant properties. Due to its high resistance coolant emulsions, it is especially suited for use in the machine, tool making and plant industries as well as in steel industry for difficult and problematic areas. The high flexibility of this cable makes it quick and easy to install. Suitable for outdoor lying. UV, Oxygene, Ozone and hydrolysis, microbes resistant. |  |

| Number and nominal cross-sectional area of conductors | Approximate overall diameter | Approximate net weight of copper | Approximate net weight of cables |
|-------------------------------------------------------|------------------------------|----------------------------------|----------------------------------|
| n x mm <sup>2</sup>                                   | mm                           | kg/km                            | kg/km                            |
| 2 x 0.5                                               | 4,8                          | 9,6                              | 45,0                             |
| 3 x 0.5                                               | 5,1                          | 14,4                             | 55,0                             |
| 4 x 0.5                                               | 5,5                          | 19,0                             | 65,0                             |
| 5 x 0.5                                               | 6,2                          | 24,0                             | 75,0                             |
| 7 x 0.5                                               | 6,7                          | 33,6                             | 90,0                             |
| 8 x 0.5                                               | 7,4                          | 38,0                             | 105,0                            |
| 10 x 0.5                                              | 8,3                          | 48,0                             | 120,0                            |
| 12 x 0.5                                              | 8,7                          | 58,0                             | 135,0                            |
| 14 x 0.5                                              | 9,5                          | 67,0                             | 170,0                            |

|    |   |      |      |       |       |
|----|---|------|------|-------|-------|
| 18 | x | 0.5  | 10,7 | 86,0  | 205,0 |
| 21 | x | 0.5  | 11,3 | 96,0  | 225,0 |
| 25 | x | 0.5  | 12,6 | 120,0 | 270,0 |
| 30 | x | 0.5  | 13,5 | 144,0 | 315,0 |
| 34 | x | 0.5  | 14,3 | 163,0 | 380,0 |
|    |   |      |      |       |       |
| 2  | x | 0.75 | 5,3  | 14,4  | 44,0  |
| 3  | x | 0.75 | 5,6  | 21,6  | 53,0  |
| 4  | x | 0.75 | 6,3  | 29,0  | 64,0  |
| 5  | x | 0.75 | 6,9  | 36,0  | 76,0  |
| 7  | x | 0.75 | 7,5  | 50,0  | 96,0  |
| 8  | x | 0.75 | 8,3  | 58,0  | 111,0 |
| 10 | x | 0.75 | 9,2  | 72,0  | 140,0 |
| 12 | x | 0.75 | 9,8  | 86,0  | 170,0 |
| 14 | x | 0.75 | 10,6 | 101,0 | 202,0 |
| 18 | x | 0.75 | 12,2 | 130,0 | 260,0 |
| 21 | x | 0.75 | 12,7 | 151,0 | 269,0 |
| 25 | x | 0.75 | 14,3 | 180,0 | 282,0 |
| 30 | x | 0.75 | 15,3 | 216,0 | 400,0 |
| 34 | x | 0.75 | 16,5 | 245,0 | 475,0 |
|    |   |      |      |       |       |
| 2  | x | 1    | 5,6  | 19,0  | 53,0  |
| 3  | x | 1    | 5,9  | 29,0  | 63,0  |
| 4  | x | 1    | 6,6  | 38,0  | 75,0  |
| 5  | x | 1    | 7,3  | 48,0  | 89,0  |
| 7  | x | 1    | 8,1  | 67,0  | 115,0 |
| 8  | x | 1    | 8,8  | 77,0  | 131,0 |
| 10 | x | 1    | 9,8  | 96,0  | 166,0 |
| 12 | x | 1    | 10,4 | 115,0 | 201,0 |
| 14 | x | 1    | 11,4 | 134,0 | 230,0 |
| 18 | x | 1    | 12,9 | 173,0 | 289,0 |
| 25 | x | 1    | 15,4 | 240,0 | 380,0 |
| 32 | x | 1    | 17,1 | 308,0 | 620,0 |
| 34 | x | 1    | 17,7 | 326,0 | 645,0 |
|    |   |      |      |       |       |
| 2  | x | 1.5  | 6,4  | 29,0  | 68,0  |
| 3  | x | 1.5  | 6,8  | 43,0  | 87,0  |
| 4  | x | 1.5  | 7,4  | 58,0  | 106,0 |
| 5  | x | 1.5  | 8,3  | 72,0  | 131,0 |
| 7  | x | 1.5  | 9,2  | 101,0 | 173,0 |
| 8  | x | 1.5  | 10,0 | 115,0 | 199,0 |
| 10 | x | 1.5  | 10,9 | 144,0 | 245,0 |
| 12 | x | 1.5  | 11,8 | 173,0 | 293,0 |
| 14 | x | 1.5  | 13,0 | 202,0 | 347,0 |
| 18 | x | 1.5  | 14,6 | 259,0 | 454,0 |
| 25 | x | 1.5  | 17,4 | 360,0 | 641,0 |
| 34 | x | 1.5  | 20,0 | 490,0 | 945,0 |
|    |   |      |      |       |       |
| 2  | x | 2.5  | 7,8  | 48,0  | 110,0 |
| 3  | x | 2.5  | 8,3  | 72,0  | 146,0 |
| 4  | x | 2.5  | 9,2  | 96,0  | 183,0 |
| 5  | x | 2.5  | 10,1 | 120,0 | 222,0 |
| 7  | x | 2.5  | 11,2 | 168,0 | 293,0 |
| 12 | x | 2.5  | 14,8 | 288,0 | 512,0 |
| 18 | x | 2.5  | 18,2 | 432,0 | 740,0 |
| 25 | x | 2.5  | 21,6 | 600,0 | 940,0 |
|    |   |      |      |       |       |
| 2  | x | 4    | 9,2  | 77,0  | 147,0 |
| 3  | x | 4    | 9,8  | 115,0 | 228,0 |
| 4  | x | 4    | 10,9 | 154,0 | 291,0 |
| 5  | x | 4    | 12,1 | 192,0 | 355,0 |
| 7  | x | 4    | 13,2 | 269,0 | 503,0 |

|   |   |    |      |        |        |
|---|---|----|------|--------|--------|
| 3 | x | 6  | 11,9 | 173,0  | 362,0  |
| 4 | x | 6  | 13,0 | 230,0  | 468,0  |
| 5 | x | 6  | 14,5 | 288,0  | 570,0  |
| 7 | x | 6  | 16,2 | 403,0  | 808,0  |
|   |   |    |      |        |        |
| 3 | x | 10 | 14,8 | 288,0  | 555,0  |
| 4 | x | 10 | 16,5 | 384,0  | 720,0  |
| 5 | x | 10 | 18,3 | 480,0  | 894,0  |
| 7 | x | 10 | 20,2 | 672,0  | 1295,0 |
|   |   |    |      |        |        |
| 4 | x | 16 | 20,1 | 614,0  | 1063,0 |
| 5 | x | 16 | 22,6 | 768,0  | 1400,0 |
| 7 | x | 16 | 24,8 | 1075,0 | 1800,0 |
|   |   |    |      |        |        |
| 4 | x | 25 | 25,0 | 960,0  | 1590,0 |
|   |   |    |      |        |        |
| 4 | x | 35 | 28,7 | 1344,0 | 2200,0 |