



## Application

Flexible cable with protective screen against electromagnetic impacts, for transmission of analogue and digital signals, suitable for fixed and mobile installations in device production, for electronic, computer and measurement systems, in mobile and production conveyers, for office devices. Usage with shifting is only possible if not exposed to stress and mechanical loads. Laid in dry and damp premises, but outdoor application is not recommended, except in special cases under protection against direct sunlight. Not for direct laying in ground or water, not intended for supply purposes. Oil resistant.

## Cable Structure & Features

|                     |                                            |
|---------------------|--------------------------------------------|
| Conductor material  | Bare copper strand                         |
| Conductor class     | Acc. to Din VDE 0295 and IEC 60228 class 5 |
| Core insulation     | PVC                                        |
| Core identification | Acc. to DIN 47100 different colours        |
| Stranding           | Stranded in layers                         |
| Overall shield      | Copper braid tinned, coverage approx. 85%  |
| Outer sheath        | PVC                                        |
| Sheath colour       | Grey, RAL 7001                             |

### Special Features /Remarks

- Largely resistant to acids, bases and usual oils
- Free from lacquer damaging substances and silicone
- Conform to RoHS
- Conform to 73/23/EWG-Guideline CE
- We are pleased to produce special versions, other dimensions core and jacket colour on request
- Self-extinguishing and flame-retardant acc. to IEC 60332-1

## Technical Data

|                             |                                                                                                         |
|-----------------------------|---------------------------------------------------------------------------------------------------------|
| Standard                    | Acc. to DIN VDE 0812 and 0245                                                                           |
| Rated voltage               | U <sub>0</sub> /U 300/500V<br>Peak voltage on 0.14mm <sup>2</sup> : 350V<br>>0.14mm <sup>2</sup> : 500V |
| Testing voltage             | 0.14mm <sup>2</sup> on 1 kV;<br>>0.14mm <sup>2</sup> on 1.5kV                                           |
| Insulation resistance       | Min. 20 MΩx km                                                                                          |
| Capacity                    | Core/core ca. 120 nF/km<br>Core/shield ca. 160 nF/km                                                    |
| Inductivity                 | Ca. 0.65 mH/km                                                                                          |
| Min. bending radius (fixed) | P to 12mm Ø: 5 x d u<br>P to 20mm Ø: 7.5 x d<br>> 20mm Ø: 10 x d                                        |
| Min. bending radius (moved) | Up to 12mm Ø: 10 x d<br>Up to 20mm Ø: 15 x d<br>> 20mm Ø: 20 x d                                        |
| Operating temp.             | Fixed: -30°C / +80°C<br>Moved: -5 °C / +70°C                                                            |

| Item No. | Dim.<br>nxmm <sup>2</sup> | Outer<br>Ø mm | Copper<br>weight | Weight<br>kg/km |
|----------|---------------------------|---------------|------------------|-----------------|
| 20210205 | 2X 0.14                   | 3.7           | 12               | 20              |
| 20210305 | 3X 0.14                   | 3.9           | 13               | 28              |
| 20210405 | 4X 0.14                   | 4.1           | 14.3             | 33              |
| 20210505 | 5X 0.14                   | 4.6           | 15.5             | 38              |
| 20210605 | 6X 0.14                   | 4.8           | 17.2             | 43              |
| 20210705 | 7X 0.14                   | 4.9           | 19               | 49              |
| 20210805 | 8X 0.14                   | 5.3           | 24               | 56              |
| 20211005 | 10X 0.14                  | 6.1           | 28.5             | 66              |
| 20211205 | 12X 0.14                  | 6.3           | 32.1             | 78              |
| 20211605 | 16X 0.14                  | 7.0           | 43               | 90              |
| 20211805 | 18X 0.14                  | 7.3           | 48.8             | 104             |
| 20212105 | 21X 0.14                  | 7.6           | 55.5             | 121             |

| Item No. | Dim.<br>nxmm <sup>2</sup> | Outer<br>Ø mm | Copper<br>weight | Weight<br>kg/km |
|----------|---------------------------|---------------|------------------|-----------------|
| 20212505 | 25X 0.14                  | 8.2           | 63               | 149             |
| 20212805 | 28X 0.14                  | 8.5           | 66.1             | 153             |
| 20213205 | 32X 0.14                  | 9.0           | 73.6             | 164             |
| 20213605 | 36X 0.14                  | 9.3           | 83               | 183             |
| 20214005 | 40X 0.14                  | 10.0          | 91               | 210             |
| 20214405 | 44X 0.14                  | 10.7          | 110.5            | 225             |
| 20215005 | 50X 0.14                  | 11.1          | 122.5            | 253             |
| 20210208 | 2X 0.25                   | 4.5           | 16               | 32              |
| 20210308 | 3X 0.25                   | 4.5           | 21               | 37              |
| 20210408 | 4X 0.25                   | 5.0           | 24               | 41.3            |
| 20210508 | 5X 0.25                   | 5.4           | 29               | 51.2            |
| 20210708 | 7X 0.25                   | 5.8           | 37               | 65              |

| Item No. | Dim.<br>nxmm <sup>2</sup> | Outer<br>Ø mm | Copper<br>weight | Weight<br>kg/km |
|----------|---------------------------|---------------|------------------|-----------------|
| 20210808 | 8X 0.25                   | 6.6           | 42               | 73              |
| 20211008 | 10X 0.25                  | 7.3           | 46               | 82              |
| 20211208 | 12X 0.25                  | 7.5           | 59               | 145             |
| 20211408 | 14X 0.25                  | 8.0           | 59               | 99              |
| 20211608 | 16X 0.25                  | 8.4           | 64               | 124             |
| 20211808 | 18X 0.25                  | 8.8           | 83               | 143             |
| 20212108 | 21X 0.25                  | 9.3           | 93               | 161             |
| 20212508 | 25X 0.25                  | 10.7          | 114              | 172             |
| 20212808 | 28X 0.25                  | 10.8          | 126              | 181             |
| 20213208 | 32X 0.25                  | 11.4          | 138              | 203             |
| 20213608 | 36X 0.25                  | 11.8          | 148              | 220             |
| 20214008 | 40X 0.25                  | 12.3          | 157              | 248             |
| 20214408 | 44X 0.25                  | 13.3          | 165              | 292             |
| 20215008 | 50X 0.25                  | 13.8          | 178              | 318             |
| 20216108 | 61X 0.25                  | 15            | 205              | 365             |
| 20210209 | 2X 0.34                   | 4.9           | 21               | 37              |
| 20210309 | 3X 0.34                   | 5.1           | 27               | 49              |
| 20210409 | 4X 0.34                   | 5.5           | 28               | 59              |
| 20210509 | 5X 0.34                   | 6.2           | 30               | 66              |
| 20210609 | 6X 0.34                   | 6.6           | 45               | 79              |
| 20210709 | 7X 0.34                   | 6.8           | 48               | 83              |
| 20210809 | 8X 0.34                   | 7.3           | 52               | 94              |
| 20211009 | 10X 0.34                  | 8.1           | 74               | 129             |
| 20211209 | 12X 0.34                  | 8.5           | 80               | 142             |
| 20211409 | 14X 0.34                  | 8.9           | 86               | 154             |
| 20211609 | 16X 0.34                  | 9.4           | 94               | 160             |
| 20211809 | 18X 0.34                  | 10.0          | 103              | 173             |
| 20212109 | 21X 0.34                  | 10.7          | 116              | 199             |
| 20212509 | 25X 0.34                  | 11.9          | 135              | 259             |
| 20212809 | 28X 0.34                  | 12.0          | 153              | 280             |
| 20213209 | 32X 0.34                  | 13.0          | 165              | 305             |
| 20213609 | 36X 0.34                  | 13.4          | 179              | 331             |
| 20214009 | 40X 0.34                  | 14.2          | 200              | 365             |
| 20214409 | 44X 0.34                  | 15.3          | 215              | 314             |
| 20215009 | 50X 0.34                  | 15.9          | 235              | 431             |
| 20210211 | 2X 0.5                    | 5.4           | 29               | 54              |
| 20210311 | 3X 0.5                    | 5.7           | 38               | 67              |
| 20210411 | 4X 0.5                    | 6.3           | 43               | 77              |

| Item No. | Dim.<br>nxmm <sup>2</sup> | Outer<br>Ø mm | Copper<br>weight | Weight<br>kg/km |
|----------|---------------------------|---------------|------------------|-----------------|
| 20210511 | 5X 0.5                    | 6.8           | 51               | 90              |
| 20210611 | 6X 0.5                    | 7.4           | 59               | 104             |
| 20210711 | 7X 0.5                    | 7.4           | 65               | 112             |
| 20210811 | 8X 0.5                    | 8.1           | 70               | 135             |
| 20211011 | 10X 0.5                   | 9.1           | 88               | 160             |
| 20211211 | 12X 0.5                   | 9.4           | 99               | 177             |
| 20211811 | 18X 0.5                   | 11.3          | 134              | 239             |
| 20212011 | 20X 0.5                   | 11.9          | 149              | 276             |
| 20212511 | 25X 0.5                   | 13.7          | 211              | 352             |
| 20213005 | 30X 0.5                   | 14.5          | 230              | 397             |
| 20210212 | 2X 0.75                   | 6.0           | 38               | 64              |
| 20210312 | 3X 0.75                   | 6.3           | 49               | 76              |
| 20210412 | 4X 0.75                   | 7.0           | 58               | 92              |
| 20210512 | 5X 0.75                   | 7.6           | 67               | 109             |
| 20210712 | 7X 0.75                   | 8.2           | 100              | 156             |
| 20211012 | 10X 0.75                  | 10.5          | 130              | 187             |
| 20211212 | 12X 0.75                  | 10.8          | 154              | 218             |
| 20211812 | 18X 0.75                  | 12.6          | 195              | 327             |
| 20212512 | 25X 0.75                  | 15.3          | 280              | 454             |
| 20213012 | 30XW 0.75                 | 15.8          | 312              | 486             |
| 20210214 | 2X 1.0                    | 6.3           | 43               | 72              |
| 20210314 | 3X 1.0                    | 6.8           | 56               | 90              |
| 20210414 | 4X 1.0                    | 7.3           | 68               | 109             |
| 20210514 | 5X 1.0                    | 7.8           | 79               | 126             |
| 20210714 | 7X 1.0                    | 8.6           | 118              | 117             |
| 20211014 | 10X 1.0                   | 11.1          | 140              | 228             |
| 20211214 | 12X 1.0                   | 11.4          | 168              | 259             |
| 20211814 | 18X 1.0                   | 13.4          | 252              | 389             |
| 20212514 | 25X 1.0                   | 16.2          | 335              | 517             |
| 20210216 | 2X 1.5                    | 7.1           | 58               | 90              |
| 20210316 | 3X 1.5                    | 7.5           | 74               | 115             |
| 20210416 | 4X 1.5                    | 8.1           | 108              | 153             |
| 20210516 | 5X 1.5                    | 8.9           | 129              | 176             |
| 20210716 | 7X 1.5                    | 9.8           | 164              | 220             |
| 20211216 | 12X 1.5                   | 13            | 254              | 376             |
| 20211816 | 18X 1.5                   | 15.9          | 350              | 519             |
| 20212516 | 25X 1.5                   | 19.9          | 550              | 901             |