



### Anwendung

für den Anschluss von Werkzeugen, beweglichen Geräten und Maschinen, bei mittleren mechanischen Beanspruchungen in trockenen und feuchten Räumen, im Freien, ebenso in gewerblichen und landwirtschaftlichen Betrieben und auf Baustellen. Verwendbar auch für feste Verlegung, z.B. auf Putz in provisorischen Bauten, für direkte Verlegung auf Bauteilen von Hebezeugen, Maschinen usw.

### Application

for connecting of power tools, mobile units and machines for medium mechanical requirements in dry and humid rooms, for outdoor use, in explosive areas, in commercial and agricultural plants and on construction lots. Also suitable for fixed laying e.g. on-wall in provisional buildings, for directly laying on modules of hoisting devices, machinery etc. .

### Besonderheiten

- besonderer Schutz für Personen und Sachwerte
- LBS-frei/silikonfrei (bei Produktion)

### Special Features

- notable protection for people and property-values
- free from lacquer damaging substances and silicone (during production)

### Hinweise

- RoHS-konform
- konform zur 2006/95/EG Richtlinie ("Niederspannungsrichtlinie") CE.
- Sonderausführungen, andere Abmessungen, Querschnitte, Ader- und Mantelfarben fertigen wir auf Anfrage.

### Remarks

- conform to RoHS
- conform to 2006/95/EC-Guideline CE
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

### Aufbau & Technische Daten

|                              |                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------|
| Leiter Werkstoff             | Cu-Litze blank                                                                                  |
| Leiterklasse                 | nach DIN VDE 0295 Klasse 5 bzw. IEC 60228 cl. 5                                                 |
| Aderisolationswerkstoff      | vernetztes Elastomer                                                                            |
| Aderkennung                  | nach VDE 0293-308 bis 5 Adern farbig, ab 6 Adern schwarz mit weissen Ziffern mit oder ohne GNGE |
| Verseilung                   | Adern in Lagen verseilt                                                                         |
| Außenmantelwerkstoff         | Spezial-Elastomer                                                                               |
| Mantelfarbe                  | schwarz                                                                                         |
| Aufdruck                     | ja                                                                                              |
| Nennspannung                 | Uo/U: 450/750 V                                                                                 |
| Prüfspannung                 | 2,5 kV                                                                                          |
| Strombelastbarkeit           | nach DIN VDE siehe techn. Anhang                                                                |
| kleinster Biegeradius fest   | 4 x d                                                                                           |
| kleinster Biegeradius bewegt | 6 x d                                                                                           |
| Betriebstemp. fest min/max   | -40 °C / +70 °C                                                                                 |
| Betriebstemp. bew. min/max   | -5 °C / +70 °C                                                                                  |
| Temperatur am Leiter max.    | +90 °C                                                                                          |
| Brandverhalten               | selbstverlöschend und flammwidrig nach IEC 60332-3                                              |
| Standard                     | CENELEC HD 22-13 / NFC 032-131                                                                  |

### Structure & Specifications

|                             |                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------|
| conductor material          | bare copper strand                                                                                       |
| conductor class             | acc. to DIN VDE 0295 class 5 resp. IEC 60228 cl. 5                                                       |
| core insulation             | cross-linked elastomer                                                                                   |
| core identification         | acc. to VDE 0293-308 up to 5 wires coloured, from 6 wires black with white numerals with or without GNGE |
| stranding                   | cores stranded in layers                                                                                 |
| outer sheath                | special elastomer                                                                                        |
| sheath colour               | black                                                                                                    |
| printing                    | yes                                                                                                      |
| rated voltage               | Uo/U: 450/750 V                                                                                          |
| testing voltage             | 2,5 kV                                                                                                   |
| current carrying capacity   | acc. to DIN VDE, see Technical Guidelines                                                                |
| min. bending radius fixed   | 4 x d                                                                                                    |
| min. bending radius moved   | 6 x d                                                                                                    |
| operat. temp. fixed min/max | -40 °C / +70 °C                                                                                          |
| operat. temp. moved min/max | -5 °C / +70 °C                                                                                           |
| temp. at conductor          | +90 °C                                                                                                   |
| burning behavior            | self extinguishing and flame retardant acc. to IEC 60332-3                                               |
| standard                    | CENELEC HD 22-13 / NFC 032-131                                                                           |

halogenfrei

halogen-free

| Art.-Nr.<br>Item no. | Abmessung<br>n x mm <sup>2</sup><br>dimension<br>n x mm <sup>2</sup> | Außen-Ø<br>mm<br>outer-Ø<br>mm | Cu-Zahl<br>kg/km<br>Cu index<br>kg/km | Gewicht<br>kg/km<br>weight<br>kg/km |
|----------------------|----------------------------------------------------------------------|--------------------------------|---------------------------------------|-------------------------------------|
| 3500600              | 1 X 1,5                                                              | 5,7 - 7,1                      | 14,4                                  | 63,0                                |
| 3500601              | 1 X 2,5                                                              | 6,3 - 7,9                      | 24,0                                  | 76,0                                |
| 3500602              | 1 X 4                                                                | 7,2 - 9,0                      | 38,0                                  | 107,0                               |
| 3500603              | 1 X 6                                                                | 7,9 - 9,8                      | 58,0                                  | 140,0                               |
| 3500604              | 1 X 10                                                               | 9,5 - 11,9                     | 96,0                                  | 213,0                               |
| 3500605              | 1 X 16                                                               | 10,8 - 13,4                    | 154,0                                 | 291,0                               |
| 3500606              | 1 X 25                                                               | 12,7 - 15,8                    | 240,0                                 | 415,0                               |
| 3500544              | 1 X 35                                                               | 14,3 - 17,9                    | 336,0                                 | 539,0                               |
| 3500545              | 1 X 50                                                               | 16,5 - 20,6                    | 480,0                                 | 740,0                               |
| 3500546              | 1 X 70                                                               | 18,6 - 23,3                    | 672,0                                 | 989,0                               |
| 3500484              | 1 X 95                                                               | 20,8 - 26,0                    | 912,0                                 | 1.290,0                             |
| 3500486              | 1 X 120                                                              | 22,8 - 28,6                    | 1.152,0                               | 1.592,0                             |
| 3500485              | 1 X 150                                                              | 25,2 - 31,4                    | 1.440,0                               | 1.957,0                             |
| 3500607              | 1 X 185                                                              | 27,6 - 34,4                    | 1.776,0                               | 2.350,0                             |
| 3500487              | 1 X 240                                                              | 30,6 - 38,3                    | 2.304,0                               | 3.099,0                             |
| 3500608              | 1 X 300                                                              | 33,5 - 41,9                    | 2.880,0                               | 3.687,0                             |
| 3500609              | 1 X 400                                                              | 37,4 - 46,8                    | 3.840,0                               | 4.850,0                             |
| 3500610              | 1 X 500                                                              | 41,3 - 52,0                    | 4.800,0                               | 5.998,0                             |
| 3500611              | 2 X 1                                                                | 7,7 - 10,0                     | 19,0                                  | 112,0                               |
| 3500618              | 3 G 1                                                                | 8,3 - 10,7                     | 29,0                                  | 125,0                               |
| 3500723              | 4 G 1                                                                | 9,2 - 11,9                     | 38,0                                  | 170,0                               |
| 3500624              | 5 G 1                                                                | 10,2 - 13,1                    | 48,0                                  | 205,0                               |
| 3500612              | 2 X 1,5                                                              | 8,5 - 11,0                     | 29,0                                  | 135,0                               |
| 3500474              | 3 G 1,5                                                              | 9,2 - 11,9                     | 43,0                                  | 129,0                               |
| 3500500              | 4 G 1,5                                                              | 10,2 - 13,1                    | 58,0                                  | 196,0                               |
| 3500475              | 5 G 1,5                                                              | 11,2 - 14,4                    | 72,0                                  | 242,0                               |
| 3500508              | 7 G 1,5                                                              | 14,5 - 17,5                    | 101,0                                 | 355,0                               |
| 3500489              | 12 G 1,5                                                             | 17,6 - 22,4                    | 173,0                                 | 660,0                               |
| 3500488              | 19 G 1,5                                                             | 20,7 - 26,3                    | 274,0                                 | 788,0                               |
| 3500495              | 27 G 1,5                                                             | 25,5 - 32,2                    | 389,0                                 | 1.077,0                             |
| 3500507              | 37 G 1,5                                                             | 28,2 - 35,6                    | 535,0                                 | 1.358,0                             |
| 3500477              | 2 X 2,5                                                              | 10,2 - 13,1                    | 48,0                                  | 190,0                               |
| 3500505              | 3 G 2,5                                                              | 10,9 - 14,0                    | 72,0                                  | 250,0                               |
| 3500476              | 4 G 2,5                                                              | 12,1 - 15,5                    | 96,0                                  | 275,0                               |
| 3500528              | 5 G 2,5                                                              | 13,3 - 17,0                    | 120,0                                 | 341,0                               |

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|----------------------|----------------------------------------------------------------------|--------------------------------|---------------------------------------|-------------------------------------|
| 3500613              | 2 X 4                                                                | 11,8 - 15,1                    | 77,0                                  | 255,0                               |
| 3500717              | 3 G 4                                                                | 12,7 - 16,2                    | 115,0                                 | 330,0                               |
| 3500483              | 4 G 4                                                                | 14,0 - 17,9                    | 154,0                                 | 388,0                               |
| 3500504              | 5 G 4                                                                | 15,6 - 19,9                    | 192,0                                 | 495,0                               |
| 3500614              | 2 X 6                                                                | 13,1 - 16,8                    | 115,0                                 | 335,0                               |
| 3500718              | 3 G 6                                                                | 14,1 - 18,0                    | 173,0                                 | 440,0                               |
| 3500503              | 4 G 6                                                                | 15,7 - 20,0                    | 230,0                                 | 515,0                               |
| 3500537              | 5 G 6                                                                | 17,5 - 22,2                    | 288,0                                 | 642,0                               |
| 3500615              | 2 X 10                                                               | 17,7 - 22,6                    | 192,0                                 | 590,0                               |
| 3500719              | 3 G 10                                                               | 19,1 - 24,2                    | 288,0                                 | 800,0                               |
| 3500481              | 4 G 10                                                               | 20,9 - 26,5                    | 384,0                                 | 882,0                               |
| 3500478              | 5 G 10                                                               | 22,9 - 29,1                    | 480,0                                 | 1.090,0                             |
| 3500616              | 2 X 16                                                               | 20,2 - 25,7                    | 307,0                                 | 821,0                               |
| 3500720              | 3 G 16                                                               | 21,8 - 27,6                    | 461,0                                 | 1.150,0                             |
| 3500482              | 4 G 16                                                               | 23,8 - 30,1                    | 614,0                                 | 1.234,0                             |
| 3500480              | 5 G 16                                                               | 26,4 - 33,3                    | 768,0                                 | 1.534,0                             |
| 3500617              | 2 X 25                                                               | 24,3 - 30,7                    | 480,0                                 | 1.172,0                             |
| 3500721              | 3 G 25                                                               | 26,1 - 33,0                    | 720,0                                 | 1.680,0                             |
| 3500479              | 4 G 25                                                               | 28,9 - 36,6                    | 960,0                                 | 1.811,0                             |
| 3500527              | 5 G 25                                                               | 32,0 - 40,4                    | 1.200,0                               | 2.291,0                             |
| 3500722              | 3 G 35                                                               | 29,3 - 37,1                    | 1.008,0                               | 2.170,0                             |
| 3500501              | 4 G 35                                                               | 32,5 - 41,1                    | 1.344,0                               | 2.365,0                             |
| 3500502              | 4 G 50                                                               | 37,7 - 47,5                    | 1.920,0                               | 3.212,0                             |
| 3500928              | 5 G 50                                                               | 40,0 - 50,8                    | 2.400,0                               | 3.950,0                             |
| 3500513              | 4 G 70                                                               | 42,7 - 54,0                    | 2.688,0                               | 4.320,0                             |
| 3500619              | 4 G 95                                                               | 48,4 - 61,0                    | 3.648,0                               | 5.572,0                             |
| 3500620              | 4 G 120                                                              | 53,0 - 66,0                    | 4.608,0                               | 6.930,0                             |
| 3500621              | 4 G 150                                                              | 58,0 - 73,0                    | 5.760,0                               | 8.419,0                             |
| 3500622              | 4 G 185                                                              | 64,0 - 80,0                    | 7.104,0                               | 10.165,0                            |
| 3500623              | 4 G 240                                                              | 72,0 - 91,0                    | 9.216,0                               | 13.420,0                            |