



◦ VDE 0812

■ Anwendung / Application

Diese Kabel werden in Brandmelde- und Sicherheitssystemen verwendet. Dieser Kabeltyp ist halogenfrei, schwer entflammbar. (Sie sind an Orten wie U-Bahnen, Tunnels, Einkaufszentren, Krankenhäuser, Flughäfen, Hotels, Wohngebäude, Industrieanlagen etc.) und geringe Rauchdichte.

These cables are used in fire alarm and security systems, which continue functioning during an instance of fire. (They are used at places where a lot of people can be found such as subways, tunnels, shopping centers, hospitals, airports, hotels, residential buildings, industrial facilities etc.) This type of cables is halogen-free, has flame-retardant and low smoke density.

■ Kabel Design / Cable Design

| | | | |
|--------------------|--|----------------------------|--|
| Leiter | : Elektrolytische Mono Kupferdraht, Klasse 5 EN60228, IEC 60228, VDE 0295 | Conductor | : Electrolytic Mono Copper Wire, Class 5 EN60228, IEC 60228, VDE 0295 |
| Mantel | : Spezielle Siliziumverbindung | Insulation | : Special Silicone Compound |
| Mantelfarbe | : DIN 47100 | Insulation Colour | : DIN 47100 |
| Verseilung | : Paare in Lagen verseilt | Stranding | : Cores Twisted in Layers |
| Separator | : PES-Band und Glasfaserband | Separator | : PES Tape and Glass Fiber Tape |
| Abschirmen | : Cu-Geflecht verzinkt | Screen | : Tinned Copper Wire Braiding |
| Außenmantel | : EN 50290-2-27 HFFR-Mischung | Outer Sheath | : EN 50290-2-27 HFFR Compound |
| Mantelfarbe | : RAL 2003 Orange | Outer Sheath Colour | : RAL 2003 Orange |

■ Brandverhalten Tests / Fire Performance Tests



Flammhemmend
Flame Retardant

VDE 0482-332-1-2
IEC 60332-1-2
EN 60332-1-2



Rauch-Dicht
Smoke Density

VDE 0482-1034-2
IEC 61034-2
EN 61034-2



Ätzendes Gas
Corrosive Gas

VDE 0482-332-1-2
IEC 60332-1-2
EN 60332-1-2



Halogenfreier
Halogen Free

VDE 0482-267-2-1
IEC 60754-1
EN 50267-3-1



Flammwidrigkeit
Flame Propagation

VDE 0482-332-3-24
IEC 60332-3-24
EN 60332-3-24



Isolationserhalt
Insulation Integrity (FE 180)

IEC 60331



Funktionserhalt mit Schock Prüfung
Circuit Integrity with Shock (PH120)

VDE 0482-200
EN50200
EN50362

■ Technische Daten / Technical Specification

| Leiterschleife Widerstand Conductor Loop Resistance | | Isolationswiderstand Insulation Resistance | Gegenseitige Kapazität Mutual Capacity | Betriebsspannung Operating Voltage | Prüfspannung Test Voltage | Kleinster Biegeradius Bending Radius | Temperaturbereiches Temperature Range |
|--|-------|---|---|---------------------------------------|------------------------------|---|--|
| mm ² | Ω/km | MΩxKm | nF/km | V | V | ∅ | °C |
| 0,22 | 79 | ≥ 200 | 120 | 300 V | 1500 V | 7,5 X D | -30°C ...+90°C |
| 0,50 | 39 | | | | | | |
| 0,75 | 26 | | | | | | |
| 1,00 | 19,50 | | | | | | |
| 1,50 | 13,30 | | | | | | |
| 2,50 | 7,98 | | | | | | |

| Artikelnummer Products Code | Querschnitt Cross Section (mm ²) | Außen- durchmesser Outer Diam. (mm) | Kupferzahl Copper Weight (kg/km ²) | Gewicht Total Weight (kg/km ²) |
|--------------------------------|--|--|---|---|
| 3440621022 | 2x2x0,22 | 6,10 | 15 | 44 |
| 3440621032 | 3x2x0,22 | 6,60 | 20 | 55 |
| 3440621042 | 4x2x0,22 | 7,10 | 25 | 64 |
| 3440621052 | 5x2x0,22 | 7,65 | 30 | 76 |
| 3440621062 | 6x2x0,22 | 8,25 | 35 | 86 |
| 3440621072 | 7x2x0,22 | 8,25 | 39 | 92 |
| 3440621082 | 8x2x0,22 | 9,15 | 45 | 107 |
| 3440621102 | 10x2x0,22 | 10,60 | 55 | 134 |
| 3440621122 | 12x2x0,22 | 10,90 | 64 | 150 |
| 3440621142 | 14x2x0,22 | 11,45 | 72 | 168 |
| 3440621162 | 16x2x0,22 | 12,00 | 82 | 186 |
| 3440621182 | 18x2x0,22 | 12,60 | 91 | 206 |
| 3440621192 | 19x2x0,22 | 12,60 | 95 | 213 |
| 3440621202 | 20x2x0,22 | 13,50 | 101 | 227 |
| 3440621242 | 24x2x0,22 | 15,00 | 119 | 274 |
| 3440621252 | 25x2x0,22 | 15,00 | 123 | 281 |
| 3440625022 | 2x2x0,75 | 8,75 | 37 | 89 |
| 3440625032 | 3x2x0,75 | 9,25 | 50 | 109 |
| 3440625042 | 4x2x0,75 | 10,45 | 64 | 143 |
| 3440625052 | 5x2x0,75 | 11,40 | 79 | 170 |
| 3440625062 | 6x2x0,75 | 12,35 | 93 | 199 |
| 3440625072 | 7x2x0,75 | 12,35 | 106 | 215 |
| 3440625082 | 8x2x0,75 | 13,80 | 121 | 251 |
| 3440625102 | 10x2x0,75 | 16,00 | 150 | 313 |
| 3440625122 | 12x2x0,75 | 16,45 | 176 | 356 |
| 3440625142 | 14x2x0,75 | 17,30 | 203 | 402 |
| 3440625162 | 16x2x0,75 | 18,30 | 236 | 456 |
| 3440625182 | 18x2x0,75 | 19,65 | 263 | 523 |
| 3440625192 | 19x2x0,75 | 19,65 | 276 | 542 |
| 3440625202 | 20x2x0,75 | 21,20 | 300 | 587 |
| 3440625242 | 24x2x0,75 | 23,35 | 356 | 700 |
| 3440625252 | 25x2x0,75 | 23,35 | 369 | 720 |
| 3440627022 | 2x2x1,50 | 10,65 | 63 | 138 |
| 3440627032 | 3x2x1,50 | 11,20 | 90 | 173 |
| 3440627042 | 4x2x1,50 | 12,25 | 116 | 214 |
| 3440627052 | 5x2x1,50 | 13,40 | 143 | 258 |
| 3440627062 | 6x2x1,50 | 15,00 | 169 | 318 |
| 3440627072 | 7x2x1,50 | 15,00 | 194 | 347 |
| 3440627082 | 8x2x1,50 | 16,75 | 222 | 402 |
| 3440627102 | 10x2x1,50 | 19,40 | 282 | 505 |
| 3440627122 | 12x2x1,50 | 20,00 | 332 | 579 |
| 3440627142 | 14x2x1,50 | 21,00 | 384 | 655 |
| 3440627162 | 16x2x1,50 | 22,30 | 446 | 747 |
| 3440627182 | 18x2x1,50 | 23,85 | 499 | 852 |
| 3440627192 | 19x2x1,50 | 23,85 | 524 | 886 |
| 3440627202 | 20x2x1,50 | 25,65 | 552 | 940 |
| 3440627242 | 24x2x1,50 | 27,90 | 670 | 1105 |
| 3440627252 | 25x2x1,50 | 27,90 | 695 | 1139 |

| Artikelnummer Products Code | Querschnitt Cross Section (mm ²) | Außen- durchmesser Outer Diam. (mm) | Kupferzahl Copper Weight (kg/km ²) | Gewicht Total Weight (kg/km ²) |
|--------------------------------|--|--|---|---|
| 3440624022 | 2x2x0,50 | 7,95 | 27 | 72 |
| 3440624032 | 3x2x0,50 | 8,35 | 36 | 86 |
| 3440624042 | 4x2x0,50 | 9,10 | 46 | 106 |
| 3440624052 | 5x2x0,50 | 10,30 | 56 | 134 |
| 3440624062 | 6x2x0,50 | 11,15 | 65 | 155 |
| 3440624072 | 7x2x0,50 | 11,15 | 74 | 167 |
| 3440624082 | 8x2x0,50 | 12,40 | 84 | 193 |
| 3440624102 | 10x2x0,50 | 13,95 | 104 | 230 |
| 3440624122 | 12x2x0,50 | 14,75 | 122 | 274 |
| 3440624142 | 14x2x0,50 | 15,50 | 140 | 309 |
| 3440624162 | 16x2x0,50 | 16,30 | 158 | 344 |
| 3440624182 | 18x2x0,50 | 17,10 | 177 | 380 |
| 3440624192 | 19x2x0,50 | 17,10 | 186 | 394 |
| 3440624202 | 20x2x0,50 | 18,85 | 201 | 443 |
| 3440624242 | 24x2x0,50 | 20,40 | 239 | 510 |
| 3440624252 | 25x2x0,50 | 20,40 | 247 | 524 |
| 3440626022 | 2x2x1,00 | 9,10 | 46 | 100 |
| 3440626032 | 3x2x1,00 | 10,00 | 64 | 133 |
| 3440626042 | 4x2x1,00 | 10,85 | 82 | 163 |
| 3440626052 | 5x2x1,00 | 11,85 | 101 | 195 |
| 3440626062 | 6x2x1,00 | 12,90 | 120 | 231 |
| 3440626072 | 7x2x1,00 | 12,90 | 137 | 251 |
| 3440626082 | 8x2x1,00 | 14,80 | 156 | 304 |
| 3440626102 | 10x2x1,00 | 16,65 | 193 | 361 |
| 3440626122 | 12x2x1,00 | 17,15 | 229 | 414 |
| 3440626142 | 14x2x1,00 | 18,10 | 270 | 474 |
| 3440626162 | 16x2x1,00 | 19,45 | 304 | 548 |
| 3440626182 | 18x2x1,00 | 20,60 | 350 | 618 |
| 3440626192 | 19x2x1,00 | 20,60 | 367 | 642 |
| 3440626202 | 20x2x1,00 | 22,10 | 387 | 682 |
| 3440626242 | 24x2x1,00 | 23,35 | 460 | 806 |
| 3440626252 | 25x2x1,00 | 23,35 | 477 | 829 |
| 3440628022 | 2x2x2,50 | 12,45 | 99 | 191 |
| 3440628032 | 3x2x2,50 | 13,20 | 143 | 248 |
| 3440628042 | 4x2x2,50 | 14,85 | 186 | 325 |
| 3440628052 | 5x2x2,50 | 16,25 | 230 | 393 |
| 3440628062 | 6x2x2,50 | 17,70 | 274 | 462 |
| 3440628072 | 7x2x2,50 | 17,70 | 315 | 510 |
| 3440628082 | 8x2x2,50 | 20,35 | 367 | 620 |
| 3440628102 | 10x2x2,50 | 23,55 | 465 | 774 |
| 3440628122 | 12x2x2,50 | 24,25 | 549 | 890 |
| 3440628142 | 14x2x2,50 | 25,65 | 647 | 1026 |
| 3440628162 | 16x2x2,50 | 27,05 | 731 | 1148 |
| 3440628182 | 18x2x2,50 | 28,50 | 821 | 1279 |
| 3440628192 | 19x2x2,50 | 28,50 | 863 | 1333 |
| 3440628202 | 20x2x2,50 | 30,70 | 909 | 1416 |
| 3440628242 | 24x2x2,50 | 33,75 | 1083 | 1685 |
| 3440628252 | 25x2x2,50 | 33,75 | 1125 | 1739 |

- Die obigen Werte entsprechen den Angaben des Herstellers und können nicht garantiert werden.
- Wir behalten uns das Recht vor, Änderungen ohne vorherige Anündigung vorzunehmen.
- Alle anderen Größen oder andere Ausführungen auf Anfrage

- The above values correspond to the manufacturer's specifications and are not guaranteed.
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