

## GAALFLEX® VFD 2XSLCH

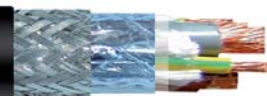
acc. to CPR UE 305/11, EN 50575:2014 + A1:2016, Cca-S1b, d1, a1



ELETTROTEK KABEL® GAALFLEX® VFD 2XSLCH, Cca-S1b, d1, a1



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### Construction:

|                      |                                                                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conductor:</b>    | flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295                                                                                                                     |
| <b>Insulation:</b>   | special XLPE compound                                                                                                                                                                   |
| <b>Cores color:</b>  | acc. to DIN VDE 0293-308, HD 308 S2<br>3 conductors + 3 earth conductors:<br>grey, brown, black and green/yellow<br>divided in interstices<br>4 cores: green/yellow, brown, black, grey |
| <b>Stranding:</b>    | in layers                                                                                                                                                                               |
| <b>Screen:</b>       | aluminium tape + PETP foil<br>and tinned copper braid                                                                                                                                   |
| <b>Outer Sheath:</b> | black (similar RAL 9005),<br>special halogen-free compound                                                                                                                              |

### Technical data:

|                                                       |                                                                                                |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>Nominal voltage:</b>                               | Uo/U 0,6/1 kV                                                                                  |
| <b>Test voltage:</b>                                  | 4 kV                                                                                           |
| <b>Max. operating voltage:</b>                        | A.C. and 3 phase 0,7/1,2 kV<br>D.C. operation 0,9/1,8 kV                                       |
| <b>Peak value <math>\hat{U}</math>:</b>               | 1,7 kV                                                                                         |
| <b>Temperature range</b>                              |                                                                                                |
| <i>Fixed laying:</i>                                  | - 40 °C up to + 90 °C                                                                          |
| <i>Flexible installation:</i>                         | - 15 °C up to + 90 °C                                                                          |
| <b>Max. temperature on conductor:</b>                 | + 90°C                                                                                         |
| <b>Max. temperature in short circuit:</b>             | + 250 °C                                                                                       |
| <b>Min. bending radius</b>                            |                                                                                                |
| <i>Fixed laying:</i>                                  | up to 12 mm: 5 x d<br>> 12 to 20 mm: 7,5 x d<br>> 20 mm: 10 x d                                |
| <i>Flexible application:</i>                          | up to 12 mm: 10 x d<br>> 12 to 20 mm: 15 x d<br>> 20 mm: 20 x d                                |
| <b>Insulation resistance:</b>                         | min. 200 MOhm x km                                                                             |
| <b>Radiation resistance:</b>                          | up to 80x10 <sup>6</sup> cJ/kg                                                                 |
| <b>Coupling resistance:</b>                           | depending<br>on the cross-section:<br>max. 250 Ohm/km                                          |
| <b>Mutual capacitance<br/>(4 conductors version):</b> | depending<br>on the cross-section<br>core/core 70 to 250 nF/km<br>core/screen 110 to 410 nF/km |

### Resistance:



#### Self-extinguishing and flame retardant acc. to:

DIN VDE 0482 part 265-2-1,  
EN 50265-2-1,  
IEC 60332-1-2,  
DIN VDE 0482 part 266-4-2,  
EN 50266-4-2,  
IEC 60332-3-24,  
EN 50399



#### Oil Resistant:

acc. to IEC 60811-404



#### Halogen-free acc. to:

DIN VDE 0482, part 267  
EN 50267-2-1,  
IEC 60754-1



#### Corrosiveness of conflagration gases acc. to:

DIN VDE 0482 part 267  
EN 50267-2-2  
IEC 60754-2



#### Low smoke density acc. to:

DIN VDE 0482 part. 268-1-2  
IEC 61034-1-2

### Features:

#### Suitable for Mining applications!

UV resistant  
outdoor use  
direct burial  
acc. to DIN VDE 0250  
EMC (electromagnetic compatibility)  
suitable for application acc. to EN 55011, DIN VDE 0875  
and EN 61800-3  
low mutual capacitance  
low coupling resistance  
installation in hazardous areas  
low coupling resistance for high electromagnetic compatibility  
acc. to CPR UE 305/11, EN 50575:2014 + A1:2016, Cca-S1b,d1,a1  
classification (CEI UNEL 35016), EN 13501-6  
RoHS and CE approval



### Applications:

suitable in plants and buildings, as a supply and connecting cable for medium mechanical stresses in fixed installations and forced movements in dry, moist and wet environments for outdoor applications. Used in the automobile industry, food industry, environmental engineering, packaging industry, toolmaking machinery, handling equipment, for SIMOVERT drivers, they are particularly suitable for use with industrial pumps, ventilators, conveyor belts and air-conditioning installations and similar applications.

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| Part no.       | No. of cores<br>x cross section<br>n x mm <sup>2</sup> | Outer-Ø<br>ca. mm<br>± 10% | Copper<br>weight<br>kg/km | Cable<br>weight approx.<br>kg/km | AWG<br>no. *) |
|----------------|--------------------------------------------------------|----------------------------|---------------------------|----------------------------------|---------------|
| 33055G72041M15 | 4 G 1,5                                                | 11,3                       | 95                        | 230                              | 16            |
| 33055G72071M15 | 7 G 1,5                                                | 12,9                       | 151                       | 310                              | 16            |
| 33055G72041M25 | 4 G 2,5                                                | 12,4                       | 150                       | 300                              | 14            |
| 33055G72071M25 | 7 G 2,5                                                | 14                         | 265                       | 450                              | 14            |
| 33055G72041M40 | 4 G 4                                                  | 13,6                       | 235                       | 485                              | 12            |
| 33055G72041M60 | 4 G 6                                                  | 14,8                       | 320                       | 630                              | 10            |
| 33055G72041M61 | 4 G 10                                                 | 19,3                       | 533                       | 794                              | 8             |
| 33055G72041M62 | 4 G 16                                                 | 22,6                       | 789                       | 1138                             | 6             |
| 33055G72041M63 | 4 G 25                                                 | 26,9                       | 1236                      | 1843                             | 4             |
| 33055G72041M64 | 4 G 35                                                 | 30,2                       | 1662                      | 2610                             | 2             |
| 33055G72041M65 | 4 G 50                                                 | 35,5                       | 2345                      | 2933                             | 1             |
| 33055G72041M66 | 4 G 70                                                 | 40,1                       | 3196                      | 3940                             | 2/0           |
| 33055G72041M67 | 4 G 95                                                 | 44,8                       | 4316                      | 5270                             | 3/0           |
| 33055G72041M68 | 4 G 120                                                | 49,6                       | 5435                      | 6558                             | 4/0           |
| 33055G72041M69 | 4 G 150                                                | 55,5                       | 6394                      | 7078                             | 250 MCM       |
| 33055G72041M70 | 4 G 185                                                | 62,6                       | 7639                      | 8408                             | 350 MCM       |
| 33055G72041M71 | 4 G 240                                                | 66,6                       | 10017                     | 11113                            | 450 MCM       |
| 33055G72041M72 | 4 G 300                                                | 71,5                       | 12570                     | 13800                            | 550 MCM       |
| 33055G72037M15 | 3 x 1,5 + 3 G 0,25                                     | 10,8                       | 89                        | 186                              | 16 / 24       |
| 33055G72037M25 | 3 x 2,5 + 3 G 0,5                                      | 11,8                       | 148                       | 252                              | 14 / 20       |
| 33055G72037M40 | 3 x 4 + 3 G 0,75                                       | 12,9                       | 224                       | 384                              | 12 / 19       |
| 33055G72037M60 | 3 x 6 + 3 G 1                                          | 14,6                       | 298                       | 501                              | 10 / 18       |
| 33055G72037M61 | 3 x 10 + 3 G 1,5                                       | 16,6                       | 491                       | 630                              | 8 / 16        |
| 33055G72037M62 | 3 x 16 + 3 G 2,5                                       | 19,3                       | 723                       | 845                              | 6 / 14        |
| 33055G72037M63 | 3 x 25 + 3 G 4                                         | 22,9                       | 1137                      | 1322                             | 4 / 12        |
| 33055G72037M64 | 3 x 35 + 3 G 6                                         | 25,1                       | 1535                      | 1782                             | 2 / 10        |
| 33055G72037M65 | 3 x 50 + 3 G 10                                        | 30,1                       | 2182                      | 2559                             | 1 / 8         |
| 33055G72037M66 | 3 x 70 + 3 G 10                                        | 34,5                       | 2871                      | 3325                             | 2/0 / 8       |
| 33055G72037M67 | 3 x 95 + 3 G 16                                        | 38,9                       | 3953                      | 4566                             | 3/0 / 6       |
| 33055G72037M68 | 3 x 120 + 3 G 16                                       | 42,1                       | 4836                      | 5609                             | 4/0 / 6       |
| 33055G72037M69 | 3 x 150 + 3 G 25                                       | 47,5                       | 5412                      | 6301                             | 250 MCM / 4   |
| 33055G72037M70 | 3 x 185 + 3 G 35                                       | 52,3                       | 7023                      | 7892                             | 350 MCM / 2   |
| 33055G72037M71 | 3 x 240 + 3 G 50                                       | 58,2                       | 9130                      | 10358                            | 450 MCM / 1   |
| 33055G72037M72 | 3 x 300 + 3 G 50                                       | 69,5                       | 11050                     | 11560                            | 550 MCM / 1   |

Other dimension and colours available on request.