

## GAALFLEX® VFD EMV-FC 3GSEGCH

Medium voltage motor power supply cables, halogen-free, overall copper screen, 3,6/6 kV



ELETTROTEK KABEL® GAALFLEX® VFD EMV-FC 3GSEGCH



### Construction:

<b>Conductor:</b>	stranded red copper conductor Cl. 2, acc to IEC 60228, DIN VDE 0295
<b>Inner semi-conductive layer:</b>	semi-conductive rubber compound, acc. to IEC 60502-2
<b>Insulation:</b>	rubber EPR compound acc. to IEC 60502-2
<b>Outer semi-conductive layer:</b>	semi-conductive rubber compound, acc. to IEC 60502-2
<b>Cores identification:</b>	numerical 1-2-3 imprint on the outer semi-conductive layer
<b>Screen:</b>	two red copper tapes <i>conductor cross section:</i> 35 to 120 mm <sup>2</sup> <i>screen cross. section:</i> 16 mm <sup>2</sup> > 120 mm <sup>2</sup> 25 mm <sup>2</sup>
<b>Inner sheath:</b>	black, polyolefin compound acc. to IEC 60502-2
<b>Concentric overall copper screen:</b>	red copper wires and one or two copper tape(s) applied helically <i>screen cross section:</i> approx. 0,5 conductor cross-section (electrical)
<b>Outer Sheath:</b>	red (similar RAL 3005), halogen-free type ST8, acc. to IEC 60502-1

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 3,6/6 kV
<b>Test voltage:</b>	21 kV
<b>Max. perm. voltage U:</b>	14,6 kV
<i>for connection on 3 level frequency converters with a nominal voltage:</i>	6,6 kV
<b>Temperature range:</b>	- 30 °C up to + 70 °C
<b>Installation temperature range:</b>	- 10 °C up to + 50 °C
<b>Max. temperature on conductor:</b>	+ 90°C
<b>Max. temperature in short circuit:</b>	+ 250 °C
<b>Min. bending radius</b>	10 x d
<b>Current carrying capacity:</b>	acc. to DIN VDE 0276-620 6
<b>Tensile strength:</b>	up to 50 N/mm <sup>2</sup>
<b>(RFI) and RFI-voltage:</b>	EMC-optimized cables acc. to DIN EN 55011/DIN 0875 part. 11, classes A1 and B1

### 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 266-2-2,  
EN 50266-2-2,  
IEC 60332-3-22



**Halogen-free acc. to:**  
DIN VDE 0482 part 267,  
EN 50267-2-1,  
IEC 60754-1



**Smoke density acc. to:**  
DIN VDE 0482 part 268-1/-2,  
EN 50268-1/-2,  
DIN EN 61034-1+2,  
IEC 61034-1+2 part 1+2

### Features:

On request is possible:  
**GAALSHOCK technology version**

RoHS approval



### Applications:

for frequency converter controlled AC drives.  
For fixed installation outdoor as well as indoors in dry,  
damp and wet conditions and in explosion hazard areas.  
This cable can be installed directly in ground or in water

# GAALFLEX® VFD CABLES

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Part no.	No. of cores x cross section n x mm <sup>2</sup>	Outer Ø Ca. mm ±10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no.*)
33220MR1030M64	3 x 35	45,5	1330	3500	2
33220MR1030M65	3 x 50	48	1835	4200	1
33220MR1030M66	3 x 70	52,5	2510	5200	2/0
33220MR1030M67	3 x 95	56,5	3350	6400	3/0
33220MR1030M68	3 x 120	60	4190	7600	4/0
33220MR1030M69	3 x 150	64	5280	8700	250 MCM
33220MR1030M70	3 x 185	68	6460	10500	350 MCM
33220MR1030M71	3 x 240	73,5	8310	13000	450 MCM