

## GAALFLEX® VFD EMV-FC 3GSEGCY

Medium voltage motor power supply cables, overall copper screen, 3,6/6 kV and 6/10 kV

ELETTROTEK KABEL® GAALFLEX® VFD EMV-FC 3GSEGCY



### 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> <i>screen cross. section:</i> 35 to 120 mm <sup>2</sup> 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), PVC type ST2 acc. to IEC 60502-1

### Resistance:



**Self-extinguishing and flame retardant acc. to:**  
DIN VDE 0482 part 265-2-1,  
EN 50265-2-1,  
IEC 60332-1-2

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 3,6/6 kV U <sub>0</sub> /U 6/10 kV
<b>Test voltage:</b>	U <sub>0</sub> /U 3,6/6 kV / 21kV U <sub>0</sub> /U 6/10 kV / 29 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

### Features:

on request:  
acc. to DIN VDE 0482 part 266-2-2 / EN 50266-2-2 /  
IEC 60332-3/22  
identified with "5 " on the 5th number of the Part no.

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

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3,6/6 kV

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.*)
33210MR1030M64	3 x 35	45,5	1330	3500	2
33210MR1030M65	3 x 50	48	1835	4200	1
33210MR1030M66	3 x 70	52,5	2510	5200	2/0
33210MR1030M67	3 x 95	56,5	3350	6400	3/0
33210MR1030M68	3 x 120	60	4190	7600	4/0
33210MR1030M69	3 x 150	64	5280	8700	250 MCM
33210MR1030M70	3 x 185	68	6460	10500	350 MCM
33210MR1030M71	3 x 240	73,5	8310	13000	450 MCM

6/10 kV

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.*)
33210QR1030M70	3 x 185/95	76,3	6642	11880	350 MCM

Other dimension and colours available on request.