

UV Resistant EMC Cable

Double Screened 0.6/1kV

APPLICATION

Motor power supply cable for the frequency converters assures electromagnetic compatibility in plants and buildings, facilities with units and operating equipment where the fields of electromagnetic interference might cause adverse effects on the surroundings. As a supply and connecting cable for medium mechanical stresses in fixed installations and forced movements in dry, moist and wet environments and for outdoor applications, possible for installation in underground at 4G16 mm². Used in the automotive and food industries, environmental technology, packaging industry, machine tools. Handling equipment, for SIMOVERT drives, they are particularly suitable for use with industrial pumps, ventilators, conveyor belts and air-conditioning installations and similar applications. Installation in hazardous areas.

EMC = Electromagnetic compatibility



TECHNICAL DATA

- Special motor power supply cable for frequency converters adapted to DIN VDE 0250
- **Temperature range**
flexing -5 °C to +70 °C
fixed installation -40 °C to +70 °C
- **Nominal voltage** U₀/U600/1000V
- **Max. operating voltage**
A.C. and 3-phase 700/1200 V
DC operation 900/1800 V
- **Test voltage** 2500 V
- **Minimum bending radius**
fixed installation for outer Ø:
up to 12 mm: approx. 5x cable Ø
>12 to 20 mm: approx. 7,5x cable Ø
>20 mm: approx. 10x cable Ø
free-movement for outer Ø:
up to 12 mm: approx. 10x cable Ø
>12 to 20 mm: approx. 15x cable Ø
>20 mm: approx. 20x cable Ø
- **Radiation-resistance**
up to 80x10⁶cJ/kg
(up to 80 Mrad)

CABLE STRUCTURE

- Bare copper, fine wire conductor to DIN VDE 0295 cl. 5, BS 6360 cl. 5 or IEC 60228 cl. 5
- Polyethylene (PE) core insulation
- Core colours: green-yellow, brown, black, grey
- Cores stranded in concentric layers
- 1. screening with special aluminium film
- 2. screening with copper braiding, tinned copper, coverage approx. 80%
- Special PVC outer sheath, black (RAL 9005)
- with meter marking, change-over in 2011

PROPERTIES

- Behavior in fire: Test according to VDE 0482-332-1-2, DIN EN 60332-1-2/IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Low mutual capacitance, to DIN VDE 0472 part 504, test method B
- Features PE-insulation secures a lower dielectric loss, double potential

strength, high longevity and low screen-interference currents

- Low mutual capacitance
- Meets EMC requirements according to
- EN 55011 and DIN VDE 0875 part 11
- Low coupling resistance for high electromagnetic compatibility
- UV-resistant
- Outdoor application, possible for installation in underground at 4G16mm²
- This screened motor supply cable with low mutual capacitance of the single cores because of the special PE core insulation and low screen capacitance enable a low-loss transmission of the power compared to PVC-sheathed connecting cables

NOTE

The current carrying capacity for permanent operation at ambient temperature of 30 °C. For deviating ambient temperatures the conversion factors should be used and for further see the indication in DIN VDE 0298 part 4

Part no.	No.cores x cross-sec. mm ²	Outer Ø approx. mm	Power ratings * *) with 3 loaded cores in Amperes	Weight approx. kg/km
EMC4G1.5UV	4 X 1.5	10.3	18	230.0
EMC4G2.5UV	4 X 2.5	12.3	26	300.0
EMC4G4UV	4 X 4	13.9	34	485.0
EMC4G6UV	4 X 6	15.3	44	630.0
EMC4G10UV	4 X 10	19.5	61	860.0
EMC4G16UV	4 X 16	23.3	82	1290.0
EMC4G25UV	4 X 25	27.4	108	1860.0
EMC4G35UV	4 X 35	30.3	135	2610.0
EMC4G50UV	4 X 50	35.5	168	2950.0
EMC4G70UV	4 X 70	40.2	207	3950.0
EMC4G95UV	4 X 95	44.5	250	5300.0
EMC4G120UV	4 X 120	50.3	292	6600.0
EMC4G150UV	4 X 150	56.1	335	7040.0
EMC4G185UV	4 X 185	58.0	382	8380.0