NEW: Increased Maximum Conductor Operating Temperature: +90 °C

Drive Technology

TOPFLEX®-EMV-UV-3 PLUS 2XSLCYK-J
TOPFLEX®-EMV-UV-2XSLCYK-J

for power supply connections to frequency converters
TOPFLEX®-EMV-UV-3 PLUS 2XSLCYK-J

Technical Data
- Special motor power supply cable for frequency converters adapted to DIN VDE 0250
- Temperature range:
  - Flexing: -5 °C up to +90 °C
  - Fixed installation: -40 °C up to +90 °C
- Maximum conductor operating temperature: +90 °C
- Nominal voltage U₉/U 600/1000 V
- Operating voltage, max.
  - AC and 3-phase: 700/1200 V
  - DC operation: 900/1800 V
- Test voltage 4000 V
- Insulation resistance
  - min. 200 MΩm x km

Structure
- Bare copper, fine wire conductor to DIN VDE 0295 cl.5, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of cross-linked polyethylene (XLPE)
- Core colour: black, brown, grey, green-yellow (green-yellow divided into 3)
- 3+3 core design
- Cores stranded in concentric layers

Properties
- Self-extinguishing and flame retardant according to DIN VDE 0482-332-1-2, DIN EN 60332-1-2/IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Meets EMC requirements according to EN 55011 and DIN VDE 0875 part 11
- Low mutual capacitance
- Low coupling resistance for high electromagnetic compatibility
- Due to the optimal screening an interference-free operation of frequency converters is obtained
- The minimum cross-section of 0.75mm² meets the requirements of DIN EN 60204 part 1
- Coupling resistance depending on the cross section max. 250 Ohm/km
- Minimum bending radius
  - Fixed installation for outer Ø:
    - up to 12mm: 5x cable Ø
    - >12 up to 20 mm: 7.5x cable Ø
    - >20 mm: 10x cable Ø
  - Free movement for outer Ø:
    - up to 12mm: 10x cable Ø
    - >12 up to 20 mm: 15x cable Ø
    - >20 mm: 20x cable Ø
- Radiation resistance up to 80x10⁶ cI/kg (up to 80 Mrad)
  - 1. screening with special aluminum foil
  - 2. screening with copper braiding, tinned copper, coverage approx. 85%
  - Special PVC outer sheath
  - Sheath colour black (RAL 9005)
  - With meter marking
- UV resistant
- In outdoor applications, underground installation is allowed for sizes 3x16+3G2,5 mm² and larger
- With its low individual core mutual capacitance because of special XLPE core insulation and low screen capacitance, this screened motor supply cable minimizes the loss of power transmission compared to PE-sheathed connecting cables
- The materials used in manufacturing are cadmium free, contain no silicone, and are free from substances harmful to the wetting properties of lacquers

Application
Supply and connecting cable for medium mechanical stresses in fixed installations and forced movements in dry, moist and wet environments in outdoor applications, underground installation is allowed for sizes 3x16+3G2,5 mm² and larger. The maximum conductor operating temperature of +90 °C permits a higher current carrying capacity than PE-insulated power distribution cables.

Used in the automobile industry, food industry, environmental engineering, packaging industry, toolmaking machinery and handling equipment. With for SIMOVERT drivers, they are particularly suitable for use in industrial pumps, ventilators, conveyer belts and air-conditioning installations or similar applications. Suitable for hazardous area installation.
TOPFLEX®-EMV-UV-2XSLCYK-J

Technical Data
- Special motor power supply cable for frequency converters adapted to DIN VDE 0250
- Temperature range:
  - Flexing: -5 °C up to +90 °C
  - Fixed installation: -40 °C up to +90 °C
- Maximum conductor operating temperature: +90 °C
- Nominal voltage \( U_{\text{p}}/U \): 600/1000 V
- Operating voltage, max.
  - AC and 3-phase: 700/1200 V
  - DC operation: 900/1800 V
- Test voltage 4000 V
- Insulation resistance
  - Min. 200 MOhm x km

Structure
- Bare copper, fine wire conductor to DIN VDE 0295 cl.5,
  BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of cross-linked polyethylene (XLPE)
- Core colours: black, brown, grey, green-yellow
- Cores stranded in concentric layers
- 1. screening with special aluminum foil
- Coupling resistance depending on the cross section
  - Max. 250 Ohm/km
- Minimum bending radius
  - Fixed installation for outer Ø:
    - Up to 12 mm: 5x cable Ø
    - >12 up to 20 mm: 7,5x cable Ø
    - >20 mm: 10x cable Ø
  - Free movement for outer Ø:
    - Up to 12 mm: 10x cable Ø
    - >12 up to 20 mm: 15x cable Ø
    - >20 mm: 20x cable Ø
- Radiation resistance
  - Up to 80x10⁶ cl/kg (up to 80 Mrad)

Properties
- Self-extinguishing and flame retardant
  - According to DIN VDE 0482-332-1-2,
    DIN EN 60332-1-2/IEC 60332-1 (equivalent
    DIN VDE 0472 part 804 test method B)
- Meets EMC requirements according to EN 55011
  and DIN VDE 0875 part 11
- Low mutual capacitance
- Low coupling resistance for high
  electromagnetic compatibility
- Due to the optimal screening an interference-free
  operation of frequency converters is obtained
- UV resistant
- In outdoor applications, underground installation
  is allowed for sizes 4G16 mm² and larger
- With its low individual core mutual capacitance because of
  special XLPE core insulation and low screen capacitance,
  this screened motor supply cable minimizes the loss of
  power transmission compared to PE-sheathed connecting
  cables
- The materials used in manufacturing are cadmium free,
  contain no silicone, and are free from substances harmful
  to the wetting properties of lacquers

Application
The TOPFLEX®-EMV-UV-2XSLSYK-J motor power supply
 cable for frequency converters assures electromagnetic com-
patibility in plants, buildings, and facilities with equipment
where electromagnetic interference might cause adverse
effects on their surroundings.

The maximum conductor operating temperature of +90 °C
permits a higher current carrying capacity than PE-insula-
ted power distribution cables. It is suitable as a supply and
connecting cable for medium mechanical stresses in fixed
installations and forced movements in dry, moist and
wet environments. In outdoor applications, underground
installation is allowed for sizes 4G16 mm² and larger.

Used in the automotive and food industries, environmental
technology, packaging industry, machine tools, and hand-
ling equipment. With SIMOVERT drives, they are particularly
suitable for use with industrial pumps, ventilators, conveyor
belts, and air-conditioning installations or similar applica-
tions. Suitable for hazardous area installation.
### TOPFLEX®-EMV-UV-3 PLUS 2XSUCYK-J

<table>
<thead>
<tr>
<th>Part no.</th>
<th>No. of cores x cross-sec. mm²</th>
<th>Outer Ø approx. mm</th>
<th>Coupling resistance at 1 MHz Ohm/km</th>
<th>Coupling resistance at 30 MHz Ohm/km</th>
<th>Power ratings with 3 loaded cores in Amperes</th>
<th>Cop. weight kg / km</th>
<th>Weight app. kg / km</th>
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Dimensions and specifications may be changed without prior notice. (RD01)

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<thead>
<tr>
<th>Part no.</th>
<th>No. of cores x cross-sec. mm²</th>
<th>Outer Ø approx. mm</th>
<th>Mutual capacitance Core/Core app. nF/km</th>
<th>Mutual capacitance Core/Screen app. nF/km</th>
<th>Coupling resistance at 1 MHz Ohm/km</th>
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**Find your local contact at**

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Company

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Customer number

Street, No.

Zip, City

Telephone / Fax

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