TOPFLEX®-EMV-UV-2XSLCH-J for power supply connections to frequency converters, halogen-free, double screened, higher current carrying capacity, 0, 6/1kV, meter marking



Technical data

- Special motor power supply cable for frequency converters adapted to DIN VDE 0250
- Temperature range flexing -5°C to +90°C fixed installation -40°C to +90°C
- Permissible operating temperature at conductor +90°C
- Nominal voltage U₀/U 600/1000 V
- Max. operating voltage A.C. and 3-phase 700/1200 V
- DC operation 900/1800 V • Test voltage 4000 V
- Insulation resistance
- Insulation resistance
 min. 200 MOhm x km
 Coupling resistance
- Coupling resistance acc. to different cross-sections max. 250 Ohm/km
- Minimum bending radius free-movement for outer Ø: up to 12 mm: 10x cable Ø > 12-20 mm: 15x cable Ø > 20 mm: 20x cable Ø fixed installation for outer Ø:
- up to 12 mm: 5x cable Ø
- > 12-20 mm: 7.5x cable Ø
- > 20 mm: 10x cable Ø
- Radiation-resistance
 - up to 80x10⁶ cJ/kg (up to 80 Mrad)

Application



Cable structure

IFC 60228 cl 5

GN-YE conductor

with meter marking

Note

polyethylene (XLPE)

• Bare copper, fine wire conductor to

DIN VDE 0295 cl.5, BS 6360 cl.5,

Core insulation of cross-linked

Core cidentification: BN, BL, GY

• Cores stranded in concentric layers

2. Tinned copper braided screen,

approx. 85% coverage

• Sheath colour black (RAL 9005)

• **) The current carrying capacity for

for further see the indication in

AWG sizes are approximate equivalent

DIN VDE 0298 part 4.

• 1. Screen with special aluminium film

• Outer sheath of special polyolefin compound

permanent operation at ambient temperature

of 30°C. For deviating ambient temperatures

the conversion factors should be used and

values. The actual cross-section is in mm².

HELUKABEL TOPFLEX-EMV-UV-2XSLCH-J 4G50 QMM / 24530 C € VFD XLPE 90°C 0.6/1 kV 001134310

Properties

- halogen-free
- Low mutual capacitance
- Low coupling resistance for high electromagnetic compatibility
- This screened motor supply cable with low mutual capacitance of the single cores because of the special XLPE core insulation and low screen capacitance enable a low-loss transmission of the power compared to PE-sheathed connecting cables
- Due to the optimal screening an interference-free operation of frequency converters is obtained
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- Tests
- self-extinguishing and flame retardant acc. 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 acc. to EN 55011 and DIN VDE 0875 part 11

This TOPFLEX[®]-EMV-UV-2XSLCH-J 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. Respecting the permissible operating temperature at the conductor of +90 °C permits a higher current carrying capacity than PE insulated power distribution cables. As a supply and connecting cable for medium mechanical stresses in fixed installations and forced movements in dry, moist and wet environments. These cables are suitable for outdoor applications and in underground by using in conduits or tubes. For the installation in conduit all precautions must be taken that no accumulation of water can occur in the pipes. 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.

The screen must be connected at both ends and ensure large-area contact over the entire cable circumference for compliance with the functional interference requirements of EN 55011.

C ← The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Continuation ►



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TOPFLEX[®]-EMV-UV-2XSLCH-J for power supply connections to frequency

converters, halogen-free, double screened, higher current carrying capacity, 0,6/1kV, meter marking

Part no.	No.cores x cross-sec. mm ²	Outer Ø approx. mm	approx.nF / km	citance Core / Screen approx.nF / km	Coupling re at 1 MHz Ohm/km	sistance at 30 MHz Ohm/km	Power ratings **) with 3 loaded cores in Amperes	Cop. weight kg/km	Weight approx. kg / km	AWG-No.
24522	4 G 1,5	10,1	70	110			23	95,0	230,0	16
24523	4 G 2,5	11,2	80	130	18	210	32	150,0	300,0	14
24524	4 G 4	12,8	90	150	11	210	42	235,0	485,0	12
24525	4 G 6	14,9	90	150	6	150	54	320,0	630,0	10
24526	4 G 10	17,7	120	200	7	180	75	533,0	860,0	8
24527	4 G 16	20,9	140	230	9	190	100	789,0	1290,0	6
24528	4 G 25	25,3	120	210	4	95	127	1236,0	1860,0	4
24529	4 G 35	28,0	150	260	3	85	168	1662,0	2610,0	2
24530	4 G 50	32,3	190	320	2	40	192	2345,0	2950,0	1
24531	4 G 70	37,6	190	320	2	45	246	3196,0	3950,0	2/0
24532	4 G 95	41,6	250	410	1	50	298	4316,0	5300,0	3/0
24533	4 G 120	44,8					346	5435,0	6600,0	4/0
24534	4 G 150	52,3					399	6394,0	7040,0	300 kcmil
24535	4 G 185	58,7					456	7639,0	8380,0	350 kcmil

Dimensions and specifications may be changed without prior notice. (RD01)



Suitable accessories can be found in Chapter X.

• Cable Gland - HELUTOP[®] HT-MS-EP4