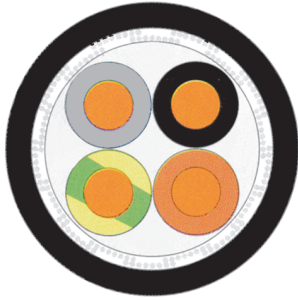


TOPFLEX®-EMV-UV-2XSLCH-J

for power supply connections to frequency converters, 0,6/1 kV, halogen-free, double screened, higher current carrying capacity, meter marking



Technical data

- Special motor power supply cable for frequency converters adapted to DIN VDE 0250
- **Temperature range**
flexing -15°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. permissible **operating voltage**
- 3-Phase and single phase operation 700/1200 V
- DC operation 900/1800 V
- **Test voltage**
4000 V
- **Coupling resistance**
acc. to different cross sections
max. 250 Ohm/km
- **Minimum bending radius**
flexing for outer Ø:
up to 12 mm: 10x outer Ø
> 12-20 mm: 15x outer Ø
> 20 mm: 20x outer Ø
fixed installation for outer Ø:
up to 12 mm: 5x outer Ø
> 12-20 mm: 7,5x outer Ø
> 20 mm: 10x outer Ø

Cable structure

- Bare copper conductor, fine wire acc. to DIN VDE 0295 cl.5 / IEC 60228 cl.5
- Core insulation of cross-linked polyethylene (XLPE)
- Core identification: BN, BK, GY
- GN-YE conductor
- Cores stranded in concentric layers
- 1. Screen with special aluminium film
- 2. Tinned copper braided screen, approx. 85% coverage
- Outer sheath of special polyolefin compound
- Sheath colour: black (RAL 9005)
- With meter marking

Tests

- Flame test acc. to DIN VDE 0482-332-3-24 / DIN EN 60332-3-24 / IEC 60332-3-24
- Flame retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- Corrosiveness of combustion gases acc. to DIN VDE 0482-754-2 / DIN EN 60754-2 / IEC 60754-2
- Smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2
- UV-resistant acc. to DIN EN ISO 4892-2
- Meets EMC requirements acc. to EN 55011 and DIN VDE 0875-11

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
- Due to the optimal screening an interference-free operation of frequency converters is obtained
- The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

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 0298-4.
- The conductor is metrically constructed (mm²). The AWG designation is approximate and purely informative.

Application

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 and for outdoor applications. 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.

EMC = Electromagnetic compatibility

To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

Continuation ►

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Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Mutual capacitance		Coupling resistance		Power ratings **) with 3 loaded cores in Amperes	Cop. weight kg / km	Weight app. kg / km	AWG-No.
			Core / Core app. nF / km	Core / Screen app. nF / km	at 1 MHz Ohm/km	at 30 MHz Ohm/km				
24522	4 G 1,5	10,1	70	110			23	95,0	164,0	16
24523	4 G 2,5	11,2	80	130	18	210	32	150,0	211,0	14
24524	4 G 4	12,8	90	150	11	210	42	235,0	303,0	12
24525	4 G 6	14,9	90	150	6	150	54	320,0	428,0	10
24526	4 G 10	17,7	120	200	7	180	75	533,0	673,0	8
24527	4 G 16	20,9	120	210	9	190	100	789,0	1000,0	6
24528	4 G 25	25,3	140	230	4	95	127	1236,0	1505,0	4
24529	4 G 35	28,0	150	260	3	85	168	1662,0	1934,0	2
24530	4 G 50	32,3	190	320	2	40	192	2345,0	2724,0	1
24531	4 G 70	37,6	190	320	2	45	246	3196,0	3674,0	2/0
24532	4 G 95	41,6	250	410	1	50	298	4316,0	4583,0	3/0
24533	4 G 120	44,8	270	430			346	5435,0	6061,0	4/0
24534	4 G 150	52,3	280	450			399	6394,0	7443,0	300 kcmil
24535	4 G 185	58,7	290	470			456	7639,0	8727,0	350 kcmil

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