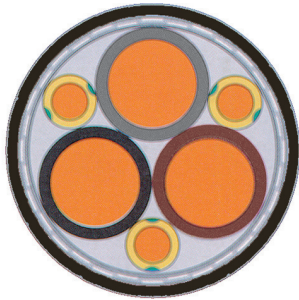


TOPFLEX®-EMV-UV-3 PLUS 2YSLCYK-J UL/CSA

Motor supply cable 1000 V, for power supply connections to frequency converters, double screened, meter marking.



Technical data

- Special motor power supply cable for frequency converters to Style 2570
- **Temperature range**
flexing -5°C bis +80°C
fixed installation -40°C bis +80°C
- **Nominal voltage**
UL 1000 V
- **Test voltage** 4000 V
- **Insulation resistance**
min. 200 MΩ x km
- **Coupling resistance**
acc. to different cross-section
max. 250 Ω/km
- **Minimum bending radius**
fixed installation for outer Ø:
up to 12 mm: 5x cable Ø
> 12-20 mm: 7,5x cable Ø
> 20 mm: 10x cable Ø
free-movement for outer Ø:
up to 12 mm: 10x cable Ø
> 12-20 mm: 15x cable Ø
> 20 mm: 20x cable Ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper, fine wire conductor to DIN VDE 0295 cl.5, BS 6360 cl.5 and IEC 60228 cl.5
- Core insulation of polyethylene (PE)
- Core identification BK, BN, GY
- GN-YE conductor (divided into 3)
- Cores stranded in concentric layers
- 3±3 core design
- 1. Screen with special aluminium film
- 2. Tinned copper braided screen, approx. 85% coverage
- Outer sheath of special PVC
- Sheath colour black (RAL 9005)
- with meter marking

Properties

- Low mutual capacitance
- Meets EMC requirements acc. to EN 55011 and DIN VDE 0875 part 11
- Low coupling resistance for high electromagnetic compatibility
- Due to the optimal screening an interference-free operation of frequency converters is obtained
- The 3 Plus-construction of motor power supply cables features a symmetrical 3-core design, improved in terms of EMC characteristics comparing favorably with a 4-core version. The protective conductor PE, divided into 3 is uniformly stranded in the interstices. This enables an extremely concentric structure
- The minimum cross-section of 0,75² meets the requirements of DIN EN 60204 part 1
- uv-resistant
- Outdoor application
- 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
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Tests

- PVC 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)

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.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

It is used as a connection and connecting cable under average mechanical stress for fixed installation and sometimes for free movement in dry, moist and wet rooms and outside. It is used in the automotive industry, food processing industry, transfer streets, packaging industry, machine tools, handling equipment, in the industry it is used for pumps, fans, transport belts and in air condition systems, etc. Used in explosion proof areas.

EMC = Electromagnetic compatibility

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.

CE = The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Continuation ►

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Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Coupling resistance		Power ratings **) with 3 loaded cores in Amperes	Cop. weight kg / km	Weight app. kg / km	AWG-No.
			at 1 MHz Ohm/km	at 30 MHz Ohm/km				
22193	3 x 1,5 + 3 G 0,25	10,0			18	86,0	140,0	16
22194	3 x 2,5 + 3 G 0,5	11,4	18	210	26	144,0	220,0	14
22195	3 x 4 + 3 G 0,75	13,0	11	210	34	224,0	323,0	12
22196	3 x 6 + 3 G 1,0	15,0	6	150	44	298,0	420,0	10
22197	3 x 10 + 3 G 1,5	18,4	7	180	61	491,0	615,0	8
22198	3 x 16 + 3 G 2,5	21,0	9	190	82	723,0	819,0	6
22199	3 x 25 + 3 G 4,0	25,3	4	95	108	1138,0	1325,0	4
22223	3 x 35 + 3 G 6,0	27,8	3	85	135	1535,0	1718,0	2
22224	3 x 50 + 3 G 10,0	32,6	2	40	168	2208,0	2399,0	1
22225	3 x 70 + 3 G 10,0	38,1	2	45	207	2871,0	3056,0	2/0
22226	3 x 95 + 3 G 16,0	41,0	1	50	250	3953,0	4162,0	3/0
22227	3 x 120 + 3 G 16,0	46,4			292	4836,0	5075,0	4/0
22228	3 x 150 + 3 G 25,0	53,5			335	5412,0	6128,0	300 kcmil
22229	3 x 185 + 3 G 35,0	59,5			382	6969,0	7189,0	350 kcmil
22230	3 x 240 + 3 G 42,5	65,1				8540,0	9540,0	500 kcmil

Dimensions and specifications may be changed without prior notice. (RN07)