2YSLCYK-J 0,6/1kV

Adapted to DIN VDE 250

PE insulated and PVC sheathed, flexible, double screened, UV-resistant motor connection cable for frequency converters

Construction:	
Conductors:	annealed copper flexible conductor, class 5 acc. to DIN VDE 0295
Insulation:	polyethylene (PE)
Core identification:	brown, black, grey, green-yellow
Taping and screening:	stranding wrapped in polyester foil, special aluminium/polyester foil and tinned copper braided screen (approx. 85% coverage)
Outer sheath:	special PVC compound, UV-resistant
Colour of outer sheath:	black RAL 9005

Characteristic:	
Nominal Voltage:	600/1000 V
Max. operating voltage:	AC: 700/1200 V DC: 900/1800 V
Test voltage 50Hz:	4000 V
Temperature range:	flexing: -5°C to +70°C fixed: -40°C to +70°C
Minimum bending radius:	free movement: • 10 x cable ∅ for outer ∅ ≤ 12 mm • 15 x cable ∅ for outer ∅ > 12 mm ≤ 20 mm • 20 x cable ∅ for outer ∅ > 20 mm fixed installation: • 5 x cable ∅ for outer ∅ ≤ 12 mm • 7,5 x cable ∅ for outer ∅ > 12 mm ≤ 20 mm • 10 x cable ∅ for outer ∅ > 20 mm
Fire performance:	acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2
EMC requirements:	meets requirements according to EN 55011 and DIN VDE 0875 part 11
Standard length cable packing:	500 m or 1000 m on drums. Other forms of packing and delivery are available on request.

Application:

Motor power supply cable for the frequency converters assures electromagnetic compatibility in areas where electromagnetic interferences might cause adverse effects on the surroundings. These cables are designed for fixed installation or occasional free flexing under conditions of medium mechanical stress in dry, moist or wet indoor or outdoor use.

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.

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Number and nominal cross-sectional area of conductors	Approximate overall diameter	Approximate net weight of copper	Approximate net weight of cables	Mutual capacitance core/core approx.	Mutual capacitance core/screen approx.	Coupling resistance at 1 MHz	Coupling resistance at 30 MHz	Power ratings with 3 loaded cores (for 30°C)
n x mm²	mm	kg/km	kg/km	nF/km	nF/km	Ω/km	Ω/km	A
4 x 1,5	10,1	95	230	70	110			18
4 x 2,5	11,9	150	300	80	130	18	210	26
4 x 4	13,6	235	485	90	150	11	210	34
4 x 6	15,3	320	630	90	150	6	150	44
4 x 10	19,4	533	860	120	200	7	180	61
4 x 16	22,4	789	1290	140	230	9	190	82
4 x 25	26,7	1236	1860	120	210	4	95	108
4 x 35	29,3	1662	2610	150	260	3	85	135