

BITNER[®] 2XSLEY-J



Flexible motor connection cables for frequency converters, with improved current carrying capacity, rated 0,6/1 kV



Technical data:

Operating temperature:

Fixed installation: -40°C to 80°C

Flexible connections: -5°C to 80°C

Max. conductor operating temperature:

90°C

Operating voltage: $U_0/U=0,6/1kV$

Test voltage: 4000V

Insulation resistance: > 200MΩxkm

Capacitance:

conductor/conductor = 70 to 250nF/km

conductor/screen = 110 to 410nF/km

Min. bending radius:

Ø < 12 mm - 5xØ

Ø = 12÷20 mm - 7,5xØ

Ø > 20 mm - 10xØ

Construction:

Conductors: bare, annealed copper conductors, multi-stranded class 5 acc. to EN 60228

Insulation: cross-linked polyethylene (XLPE)

Core identification: black, brown, grey, green-yellow

Core arrangement: cores twisted together

Screens: electrostatic screen made of aluminium backed polyester tape and a second screen made of tinned copper wire braid with coverage ≥ 85%

Outer sheath: special PVC, self-extinguishing and flame retardant (as per EN 60332-1)

Outer sheath colour: transparent

Special properties:

- low capacitance
- improved current carrying capacity
- fulfilment of electromagnetic compatibility (EMC) requirements*
- self-extinguishing sheath

***Note:** in order to ensure optimal screen earthing and the fulfilment of electromagnetic compatibility (EMC) requirements of the connection, we recommend using metal glands or a different type of circuit earthing system (360°).

Application:

Cables with special construction, used to supply power to motors from frequency converters while maintaining full electromagnetic compatibility (EMC). The XLPE insulation improves current carrying capacity maintaining at the same time low capacitance in comparison to PVC insulated cables. The cables are suitable for both fixed installation and flexible connections in industrial equipment, process lines, and machines operating in dry and damp rooms.

Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter [mm]	Current-carrying capacity *) [A]	Screen cross section [mm ²]	Approximate cable weight [kg/km]	Cu [kg/km]
IP0050	4G1,5	11,3	23	3,2	230	95,0
IP0051	4G2,5	12,4	32	3,6	300	150,0
IP0052	4G4	13,6	42	4,0	485	235,0
IP0053	4G6	14,8	54	4,5	630	320,0
IP0054	4G10	17,5	75	7,1	860	533,0
IP0055	4G16	20,2	100	8,5	1290	789,0
IP0056	4G25	24,8	127	10,8	1860	1236,0
IP0057	4G35	27,4	158	11,9	2610	1662,0
IP0058	4G50	32,0	192	17,9	2950	2345,0
IP0059	4G70	37,1	246	21,0	3950	3196,0
IP0060	4G95	41,6	298	29,6	5300	4316,0
IP0061	4G120	45,2	346	29,6	6600	5435,0
IP0062	4G150	52,0	399	34,7	7040	6394,0
IP0063	4G185	58,1	456	38,9	8380	7639,0
IP0064	4G240	66,1	528	45,0	11290	10013,0

*) - current-carrying capacity of a single cable in air at a temperature of 30°C

Cable Factory BITNER reserves the right to modify the specifications without prior notice
 Note: On customer's request other cross sections or number of cores can be produced

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