

BITservo® UV 2XSLCHK-J



Flexible, halogen-free motor connection cables for frequency converters, rated 0,6/1kV



industrial application



internal application



external application



underground application



EN 60332-1



EN 60332-3



oxygen index >29



halogen-free EN 60754



UV resistance



high flexibility



EMC



low smoke emission EN 61034

Technical data:

Operating temperature:

Fixed installation: -40°C do 90°C
Min. installation temp.: -5°C

Max. conductor operating temperature: 90°C

Max. conductor temperature in shortcircuit (1 sec.): 250°C

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

Test voltage: 3500V

Insulation resistance: > 2000MΩxkm

Capacitance:

conductor/conductor = 80 to 250nF/km

conductor/screen = 140 to 410nF/km

Min. bending radius:

Ø < 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 aluminum backed polyester tape and a second screen made of tinned copper wire braid with coverage ≥ 85%

Outer sheath: special halogen-free compound, self-extinguishing and flame retardant (acc. to EN 60332-1, EN 60332-3-22, IEC 60332-3 cat. A), UV resistant.

Outer sheath colour: black

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. Black UV-resistant sheath enables installation outside of buildings. The cable is also suitable for direct underground installations. 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]
IP2620	4G1,5	12,3	23	3,2	230	95
IP2621	4G2,5	13,3	32	3,6	300	150
IP2622	4G4	14,7	42	4,0	485	235
IP2623	4G6	16,0	54	4,5	630	320
IP2624	4G10	18,8	75	7,1	860	533
IP2625	4G16	21,5	100	8,5	1290	789
IP2626	4G25	26,0	127	10,8	1860	1236
IP2627	4G35	28,9	158	11,9	2610	1662
IP2628	4G50	33,2	192	17,9	2950	2345
IP2629	4G70	38,4	246	21,0	3950	3196
IP2630	4G95	43,0	298	29,6	5300	4316
IP2631	4G120	46,7	346	29,6	6600	5435
IP2632	4G150	53,7	399	34,7	7040	6394
IP2633	4G185	60,0	456	38,9	8380	7639
IP2634	4G240	66,1	528	45,0	11300	10013

*) - 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