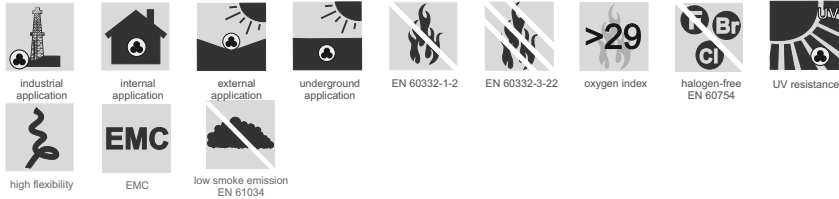


BiTservo® UV 3plus 2XSLCHK-J

RoHS 2015/863/EU
 CE
 LVD 2014/35/EU
 CPR
 CPR 305/2011
 24 months warranty

Servo motor cables

Flexible halogen-free motor connection cables for frequency converters (VFD), symmetric construction, rated 0,6/1 kV



Technical data:

Thermal parameters:

Operating temperature:

fixed installation: -40 °C to 90 °C
 min. installation temp.: -5 °C

Max. conductor operating temperature: 90 °C

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

Electrical parameters:

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

Test voltage: 4000 V

Insulation resistance: > 200 MΩ x km

Capacitance:

conductor/conductor = 70 to 250 nF/km

conductor/screen = 110 to 410 nF/km

Mechanical parameters:

Min. bending radius:

∅ < 20 mm – 7,5 x ∅

∅ > 20 mm – 10 x ∅

Design:

Conductors:

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

Insulation:

cross-linked polyethylene (XLPE)

Core identification:

black, brown, grey, 3 x green-yellow (3+3PE)

Core arrangement:

cores twisted together in symmetric construction, protective earth split into three arranged symmetrically every 120°)

Screens:

electrostatic screen made of aluminium backed polyester tape and a second screen made of tinned copper wire braid, total screen coverage 100%

Outer sheath:

special halogen-free compound, self-extinguishing and flame retardant (acc. to EN 60332-1-2, EN 60332-3-22, IEC 60332-3-22 cat. A), UV resistant; colour: black

Special properties:

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

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

Application:

Cables with special construction, used to supply power to motors from frequency converters (VFD) 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 **EN50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Current-carrying capacity** [A]	Approximate cable weight [kg/km]
IP2600	3x1,5+3G0,25	10,8	23	155
IP2601	3x2,5+3G0,5	12,0	32	205
IP2602	3x4+3G0,75	13,0	42	270
IP2603	3x6+3G1,0	14,3	54	345
IP2604	3x10+3G1,5	16,7	75	520
IP2605	3x16+3G2,5	19,3	100	750
IP2606	3x25+3G4	23,2	127	1135
IP2607	3x35+3G6	26,1	158	1525
IP2608	3x50+3G10	30,2	192	2130
IP2609	3x70+3G10	34,7	246	2815
IP2610	3x95+3G16	38,7	298	3725
IP2611	3x120+3G16	42,0	346	4530
IP2612	3x150+3G25	48,3	399	5840
IP2613	3x185+3G35	54,1	456	7105
IP2614	3x240+3G50	60,0	528	9325
IP2615	3x300+3G50	69,5	621	11880
IP2616	3x400+3G70	77,2	700	15500

*Outer diameter tolerance: +/- 5%; ** - 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