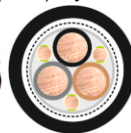


BiTservo® UV 3plus 2XSLCYK-J



Servo motor cables

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



Technical data:

Thermal parameters:

Operating temperature:
fixed installation: -40 °C to 80 °C
flexible connections: -5 °C to 80 °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:
Ø < 12 mm - 5 x Ø
Ø = 12 ÷ 20 mm - 7,5 x Ø
Ø > 20 mm - 10 x Ø

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:** PVC compound, self-extinguishing and flame retardant (as per EN 60332-1-2), UV resistant; colour: black
- Special properties:**
- low capacitance
 - improved current carrying capacity
 - fulfilment of electromagnetic compatibility (EMC) requirements*
 - self-extinguishing sheath
 - UV resistant 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 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. The symmetric construction of the cable (3+3PE) ensures symmetry of voltages on motor terminals. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Current-carrying capacity *) [A]	Approximate cable weight [kg/km]
IP1700	3x1,5+3G0,25	10,8	23	155
IP1701	3x2,5+3G0,5	12,0	32	205
IP1702	3x4+3G0,75	13,0	42	270
IP1703	3x6+3G1	14,3	54	345
IP1704	3x10+3G1,5	16,7	75	520
IP1705	3x16+3G2,5	19,3	100	750
IP1706	3x25+3G4	23,2	127	1135
IP1707	3x35+3G6	26,1	158	1525
IP1708	3x50+3G10	30,2	192	2130
IP1709	3x70+3G10	34,7	246	2815
IP1710	3x95+3G16	38,7	298	3725
IP1711	3x120+3G16	42,0	346	4525
IP1712	3x150+3G25	48,3	399	5835
IP1713	3x185+3G35	54,1	456	7100
IP1714	3x240+3G50	60,0	528	9315

*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