

BiTservo® UV 3plus 2XSLCYSWAYK-J FR

RoHS 2015/863/EU



LVD 2014/35/EU

CPR

CPR 305/2011

24 months warranty

Steel wire armoured flame retardant motor connection cables for frequency converters, with improved current carrying capacity, symmetric construction, UV resistant, rated 0,6/1 kV



industrial application



internal application



external application



underground application



EN 60332-1-2



oxygen index



UV resistance



EMC

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

Mechanical parameters:

Insulation resistance: > 200 MΩ x km

Capacitance:

Conductor/conductor: 70 to 250 nF/km

Conductor/screen: 110 to 410 nF/km

Min. bending radius: 12 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)

Screens:

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

Inner sheath:

special PVC

Armour:

round galvanized steel wires with helically applied anti-torsion tape

Outer sheath:

special PVC, self-extinguishing and highly flame retardant (as per EN 60332-1-2) with oxygen index > 29; colour: black

Special properties:

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

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

Application:

Cables with special construction, used to supply power motors from frequency converters while maintaining full electromagnetic compatibility (EMC). The polyethylene insulation ensures low capacitance in comparison to PVC insulated cables. The cables are suitable for fixed installation 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 burial. 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]
IP2650	3x2,5+3G0,5	18,2	32	665
IP2651	3x4+3G0,75	19,2	42	760
IP2652	3x6+3G1	20,6	54	880
IP2653	3x10+3G1,5	23,4	75	150
IP2654	3x16+3G2,5	26,0	100	1590
IP2655	3x25+3G4	29,8	127	2120
IP2656	3x35+3G6	32,7	158	2620
IP2657	3x50+3G10	37,6	192	3630
IP2658	3x70+3G10	42,1	246	4550
IP2659	3x95+3G16	47,4	298	6100
IP2660	3x120+3G16	50,8	346	7100
IP2661	3x150+3G25	57,2	399	8700
IP2662	3x185+3G35	63,3	456	10400
IP2663	3x240+3G50	69,3	528	12900
IP2664	3x300+3G50	80,6	610	17000

*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