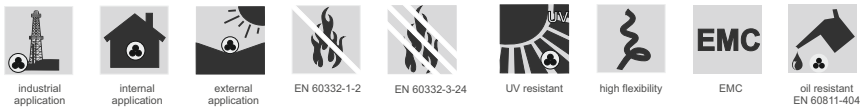


BITNER[®] BiTservo[®] MV10



Servo motor cables

Flexible rubber MV motor connection cable for frequency converters (VFD) rated 6/10 kV



Technical data:

Thermal parameters:

Operating temperature: -40 °C to 90 °C
Max conductor operating temperature: 90 °C
Max short circuit temperature (max 5 sec.): 250 °C

Electrical parameters:

Operating voltage: 6/10 kV
Test voltage: 17 kV

Mechanical parameters:

Min. bending radius: 10 x Ø

Design:

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

Screen of power conductors: special semi-conductive rubber compound

Insulation of power conductors: special EPR compound with increased electrical parameters, neutral colour

Screen on insulation of power conductors split in 3 elements: special semi-conductive rubber, semi-conductive tape, tinned copper wire braid plus additional protective conductors (bare)

Separator: semi-conductive tape

Outer sheath: special flame retardant rubber compound with LOI>29, oil resistant; colour: red

Application:

For installations in power networks and supplying power to high power engines via MV frequency converters (VFD). Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]	Conductor resistance at 20 °C [Ω/km]	Capacitance [nF/km]	Inductance [mH/km]	Current-carrying capacity **) [A]
IP4550	3x16+3x16/3	44,3	2800	1,24	310	0,40	109
IP4551	3x25+3x16/3	47,7	3360	0,795	350	0,38	141
IP4552	3x35+3x16/3	49,9	3740	0,565	400	0,35	174
IP4553	3x35+3x25/3	49,9	3760	0,565	400	0,35	174
IP4554	3x50+3x25/3	54,3	4535	0,393	440	0,34	215
IP4555	3x70+3x35/3	58,2	5515	0,277	500	0,32	266
IP4556	3x95+3x50/3	62,9	6875	0,210	580	0,30	318
IP4557	3x120+3x70/3	65,5	7845	0,164	620	0,29	367
IP4558	3x150+3x70/3	70,5	9050	0,132	690	0,28	418
IP4559	3x185+3x95/3	76,2	10800	0,108	760	0,27	477
IP4560	3x240+3x120/3	80,2	12800	0,0817	810	0,27	552

*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