

Medium voltage cable

BiT 3GSEGCH SERVO



Application: Medium voltage cable for connection between motor and frequency converter.

The 3 copper bands above the cores result in a combined cross-section of 25 sqmm.

Construction and technical data:

Conductor material:	copper, bare
Conductor construction:	Class 2 = stranded
Insulation:	basic EPR
Electrical field control:	inner and outer semiconducting rubber layer
Screen:	copper tape on each core
Concentric conductor:	Cu
Sheathing material:	FRNC-compound
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-20 - +80 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	10 x Ø
Maximum tensile strength at the conductor:	50 N/mm ²



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

BiTservo[®] 3GSEGCH 3.6/6 kV**Nominal voltage U_o:** 3.6 kV**Nominal voltage U:** 6 kV**Maximum permitted operating voltage in** 7.2 kV**three-phase systems:****Test voltage:** 11 kV

part no.	part name		RI [Ohm/km]	I _{bl} [A]	Ø [mm]	Cu	G [kg]
053847	03X150/75 RD	RM	0.124	400	68	5280	8745
054570	03X185/95 RD	RM	0.0991	451	72	6709	10255

BiTservo[®] 3GSEGCH 6/10 kV**Nominal voltage U_o:** 6 kV**Nominal voltage U:** 10 kV**Maximum permitted operating voltage in** 12 kV**three-phase systems:****Test voltage:** 17 kV

part no.	part name		RI [Ohm/km]	I _{bl} [A]	L _b [mH/km]	Ø [mm]	Cu	G [kg]
052467	3X120/60 RD	RM	0.153	352	0.29	66	4190	7417
052464	3X150/75 RD	RM	0.124	404	0.28	73.3	5784	8867
054090	3X120/60 BK	RM	0.153	352	0.29	69	5388	7746

RI	Conductor resistance
I _{bl}	Ampacity in air (30 °C)
L _b	Specific inductivity
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000