

Cable for festoon application

BiTcrane[®] (N)3GRDC5G-J/O



Application: Power and control cable for high mechanical requirements, frequently bendings in only one direction, especially for use in trolley systems, drag chains on moving parts of machines, conveyor facilities. Suitable for dry, humid and wet rooms and for outdoor use.

Construction and technical data:

Standard:	VDE 0250-812 (with reference to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	HEPR
Material inner sheath:	rubber GM1b
Screen:	copper braid, tinned + synthetic fibre
Screen coverage:	80 %
Sheathing material:	rubber (CR) 5GM5
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	15 N/mm ²
Operating speed festoon, m/min.:	240 m/min.



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.

Nominal voltage U_o:	0.6 kV
Nominal voltage U:	1 kV
Maximum permitted operating voltage in three-phase systems:	1.2 kV
Test voltage:	2.5 kV
Protective conductor:	yes
Core identification:	green-yellow + numbers

part no.	part name	RI [Ohm/km]	Ø min. [mm]	Ø max. [mm]	Ø [mm]	Fzd [N]	Cu	G [kg]
054208	01X95	0.206	21	24	24	1425	1065	1190
054741	01X185	0.106	28	31	31	2775	1969	2172
053149	03X16 + 3G2.5	1.21	24	26	26	757	642	1170
053150	03X35 + 3G6	0.554	30	33	33	1575	1302	2050
053621	03x50 + 3G10	0.386	36	39	39	2250	1973	2875
053578	03X70 + 3G10	0.272	40	43	43	3150	2555	3685
054665	03X95 + 3G16	0.206	46	49	49	4275	3577	4956
053681	24G2.5	7.98	31	33	33	900	805	1600
053965	04G4	4.95	16	19	19	240	381	579
053682	04G35	0.554	33	36	36	2100	1577	2348

RI	Conductor resistance
Ø min.	outer diameter min.
Ø max.	outer diameter max.
Ø	outer diameter approx.
Fzd	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000