

BiTcrane[®] (N)3GRDC5G-J/O

Flexible round festoon cables, rated 0,6/1kV



Crane cables



industrial application



internal application



external application



UV resistance



EN 60811-404



EN 60332-1-2



festoon application

Technical data:

Thermal parameters:

Ambient temperature:

fixed installation: -40 °C to 80 °C

flexible operation: -30 °C to 80 °C

Max. permissible conductor temp.: 90 °C

Max. short-circuit temp. at conductor: 250 °C

Mechanical parameters:

Max. tensile load per conductor: 15 N/mm²

Bending radius acc. to DIN VDE 0298-3:

- fixed installation: $\geq 4 \times$ outer - $\varnothing$

- festoon application: $\geq 5 \times$ outer - $\varnothing$

Reeling speed: ≤ 240 m/min

Design:

Conductor:

bare copper wires, finely stranded, class 5 acc. to DIN EN/IEC 60228

Insulation:

HEPR compound acc. to IEC 60502-1 colours acc. to DIN VDE 0293-308 up to 5 wires colored, from 6 wires natural, numbered (with or without green/yellow protective conductor)

Core arrangement:

Inner sheath:

cores stranded in layers around central element synthetic rubber compound, type GM1b / EPDM acc. to DIN VDE 0207-21, filling the interstices

Screen:

Outer sheath:

tinned copper wires / synthetic threads braid heavy duty rubber compound, type 5GM5 acc. to DIN VDE 0207-21, colour: black, inkjet marking

Application:

Power and control cable for high mechanical requirements, frequently bendings in only one direction designed especially for festoon applications especially use in trolley systems, drag chains on moving parts of machines, conveyor facilities. Cables are suitable for both indoor and outdoor applications.

Chemical parameters:

Resistance to oil: DIN EN/IEC 60811-404

Behaviour in case of fire: DIN EN/IEC 60332-1-2

Weather resistance: unrestricted use indoors, outdoors, resistance to ozone, UV and moisture

Electrical parameters:

Rated voltage U_0/U [kV]	0.6/1 kV
Max. permissible operating voltage $U_{0,max}$ in AC systems [kV]:	0.7/1.2 kV
Max. permissible operating voltage $U_{0,max}$ in DC systems [kV]:	0.9/1.8 kV
AC test voltage:	2.5 kV
Current-carrying capacities in amperes:	acc. to DIN VDE 0298-4

BiTcrane[®] (N)3GRDC5G-O

Cat. no.	n x mm ²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
BC00550	1x25	13-16	403
BC00551	1x50	17-20	712
BC00552	1x70	19-22	946
BC00553	1x95	21-24	1214
BC00554	1x185	28-31	2166
BC00555	1x240	31-34	2796

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Cat. no.	n x mm ²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
BC00506	4x1,5	13-16	280
BC00507	4x2,5	15-18	363
BC00508	4x4	16-19	474
BC00509	4x6	19-22	686
BC00510	4x10	22-25	925
BC00511	4x16	25-28	1274
BC00512	4x25	31-34	1960
BC00515	4x35	33-36	2346
BC00516	4x50	38-41	3178
BC00517	12x1,5	19-23	623
BC00518	18x1,5	22-26	854
BC00519	7x2,5	18-22	641
BC00520	12x2,5	21-25	826
BC00521	24x2,5	30-34	1600
BC00522	3x6+3x1,5	21-24	741
BC00523	3x35+3x6	31-34	2087
BC00524	3x16+3x2,5	24-27	1161
BC00525	3x16+3x10	30-33	1525
BC00526	3x70+3x10	40-43	3685
BC00527	3x50+3x10	36-39	2872
BC00528	3x95+3x16	46-49	4906

Cable Factory BITNER reserves the right to modify specifications without prior notification.

Note: on customer's request other cross sections or number of cores can be produced.