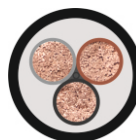


BiTcrane[®] (N)3GRD5G-J/O

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:

Elastomeric hard grade ethylene-propylene rubber (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)

Different structures:

- single core (1x...)
- 3 - 5 cores (power and control N x ...)

- multi cores (N x ...)

- three cores with divided protective conductor (3x...+3x.../3)

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

Outer sheath:

Heavy duty rubber compound, type 5GM5 acc. to DIN VDE 0207-21, colour: black, inkjet marking. Both sheaths are inseparable fixed together.

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)3GRD5G-O

Cat. no.	n x mm ²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
BC00660	1x25	12-15	332
BC00661	1x35	13-16	412
BC00662	1x50	16-19	591
BC00663	1x70	17-20	806
BC00664	1x95	20-23	1051
BC00665	1x120	21-24	1288
BC00666	1x150	23-26	1580
BC00667	1x185	26-29	1959

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Cat. no.	n x mm ²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
BC00611	3x25	26-29	1349
BC00612	3x35	29-32	1700
BC00613	3x50	35-38	2389
BC00614	3x70	38-41	3173
BC00615	4x1,5	12-15	209
BC00616	4x2,5	13-16	279
BC00617	4x4	15-18	354
BC00618	4x6	18-21	544
BC00619	4x10	21-24	765
BC00620	4x16	24-27	1096
BC00621	4x25	29-32	1725
BC00622	4x35	32-35	2110
BC00623	4x50	38-41	2968
BC00609	5x1,5	13-16	245
BC00624	5x4	17-20	467
BC00625	5x6	20-23	649
BC00626	5x10	23-26	963
BC00627	5x16	26-29	1324
BC00628	5x25	32-35	2096
BC00629	5x35	36-39	2670
BC00610	7x1,5	15-18	317
BC00630	12x1,5	18-22	483
BC00631	18x1,5	21-25	691
BC00632	24x1,5	24-28	931
BC00633	7x2,5	17-21	485
BC00634	12x2,5	20-24	671
BC00635	16x2,5	23-27	881
BC00636	18x2,5	24-28	967
BC00637	24x2,5	29-33	1367
BC00638	30x2,5	33-37	1774
BC00639	36x2,5	33-37	1845
BC00640	24x6	40-44	2765
BC00641	3x25+3x16/3	30-33	1702
BC00642	3x35+3x25/3	35-38	2329
BC00643	3x50+3x25/3	35-38	2609
BC00644	3x70+3x35/3	42-45	3812
BC00710	6x(2x1)C	25-28	806
BC00711	6x(2x1,5)C	27-30	1000
BC00712	9x(2x1)C	32-35	1230
BC00713	12x(2x1)C	34-38	1353
BC00714	3x(2x1,5)C	20-23	554
BC00645	8x25	42-46	3490

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.