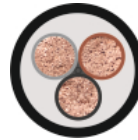


BiTcrane® (N)3GRD5G-J/O



Crane cables

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



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: ≥ 4 x outer - Ø
 - festoon application: ≥ 5 x outer - Ø
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: cores stranded in layers around central element
Inner sheath: 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

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

BiTcrane[®](N)3GRD5G-J/O

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

BiTcrane[®](N)3GRD5G-J

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
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
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

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.