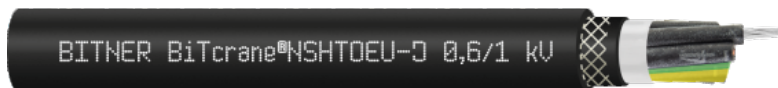


BiTcrane[®] NSHTOEU-J



Low voltage, reeling power / control cable acc. to DIN VDE 0250-814



Technical data:

Thermal parameters:

Ambient temperature:

fixed installation: -40 °C to 80 °C

reeling operation: -30 °C to 80 °C

Max. permissible conductor temp.: 90 °C

Max. short-circuit temp. at conductor: 200 °C

Mechanical parameters:

Tensile load static/dynamic: 15 / 20 N/mm²

Torsional stresses: ± 25 °/m

Bending radius acc. to DIN VDE 0298-3:

- fixed installation: ≥ 4 x cable - Ø

- reeling application: ≥ 6 x cable - Ø

- on deflection pulleys: ≥ 7,5 x cable - Ø

- min. distance with S-type directional changes:

20 x cable - Ø

Reeling speed: ≤ 120 m/min

Design:

Main cores:

Conductors:

tinned copper wires, finely stranded, acc. to IEC 60228 class 5

Insulation:

EPR compound, type 3GI3 acc. to DIN VDE 0207-20, core colours: acc. to DIN VDE 0293-308

Ground conductor:

Conductor:

tinned copper wires, finely stranded, acc. to IEC 60228 class 5

Insulation:

EPR compound, type 3GI3 acc. to DIN VDE 0207-20, core colours: green-yellow

Inner sheath:

heavy duty rubber compound, quality 5GM3 acc. to DIN VDE 0207-21, filling the interstices braid made of synthetic threads in a vulcanized bond between inner and outer sheath

Reinforcement:

Outer sheath:

heavy duty rubber compound, quality 5GM3 acc. to DIN VDE 0207-21, colour: black, inkjet marking

Application:

Heavy duty rubber reeling cable for power supply or control applications. For use with high mechanical stress, especially for simultaneous tensile and torsional stress. Suitable for all types of mobile equipment such as stackers/reclaimers, on container handling equipment of any kind in ports or stockyard areas with motor-driven mono spiral / cylindrical reels or spring-operated reels.

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
Maximum permissible operating voltage $U_{0,max}$ in AC systems [kV]:	0,7/1,2 kV
Maximum 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 table 15
De-rating factors (thermal/reeling):	acc. to DIN VDE 0298-4

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Cat. no.	n x mm ²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
IP5370	3x1,5	12-15	205
IP5371	3x2,5	14-17	275
IP5372	3x4	17-20	400
IP5373	3x6	18-21	485
IP5374	3x10	21-25	740
IP5375	3x16	23-27	960
IP5376	3x25	28-32	1475
IP5377	3x35	32-35	1895
IP5378	3x50	38-41	2640
IP5379	3x70	41-44	3445
IP5380	3x95	48-51	4550
IP5381	3x120	51-54	5425
IP5382	3x150	56-59	6580
IP5383	3x185	63-66	8265
IP5384	3x240	70-73	10535
IP5385	4x1,5	13-17	235
IP5386	4x2,5	16-19	365
IP5387	4x4	18-21	475
IP5388	4x6	19-22	580
IP5389	4x10	23-26	900
IP5390	4x16	26-29	1240
IP5391	4x25	32-35	1920
IP5392	4x35	35-38	2335
IP5393	4x50	41-44	3250
IP5394	4x70	45-48	4285
IP5395	4x95	52-55	5660
IP5396	4x120	57-60	7010

Cat. no.	n x mm ²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
IP5397	4x150	63-66	8505
IP5398	4x185	71-74	10640
IP5399	4x240	78-81	13545
IP5400	5x1,5	14-17	270
IP5401	5x2,5	17-20	415
IP5402	5x4	19-22	545
IP5403	5x6	21-24	725
IP5404	5x10	25-28	1070
IP5405	5x16	28-31	1475
IP5406	5x25	35-38	2295
IP5407	5x35	39-42	2930
IP5408	5x50	44-48	3915
IP5409	5x70	51-54	5395
IP5410	5x95	58-61	6955
IP5411	5x150	68-71	10320
IP5412	5x185	77-81	12900
IP5413	5x240	83-86	16100
IP5414	7x1,5	16,2-19	395
IP5415	7x2,5	19,5-22,5	545
IP5416	12x1,5	20,5-23,0	580
IP5417	12x2,5	24-27	815
IP5418	18x1,5	23-26	765
IP5419	18x2,5	27-30	1095
IP5420	24x1,5	27-30	1010
IP5421	24x2,5	32,5-35	1545
IP5422	30x1,5	29-32	1160
IP5423	30x2,5	34-37	1680

Cat. no.	n x mm ²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
IP5430	3x25+3x16/3	31-34	1810
IP5431	3x35+3x16/3	31-34	1970
IP5432	3x35+3x25/3	39-42	2715
IP5433	3x50+3x25/3	39-42	2985
IP5434	3x70+3x35/3	44-47	3995
IP5435	3x95+3x50/3	53-57	5655
IP5436	3x120+3x70/3	55-58	6535
IP5437	3x150+3x70/3	56-59	7155
IP5438	3x185+3x95/3	62-65	8765
IP5439	3x240+3x120/3	69-72	11395

Cable Factory BITNER reserves the right to modify the specifications without prior notice
 Note: on customer's request other cross sections or number of cores can be produced