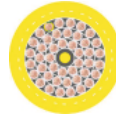


BITcrane® (N)SHTOEU-J SPREADER



Crane cables

Low voltage, reeling cable based on DIN VDE 0250-814



Technical data:

Thermal parameters:

Ambient temperature:

fixed installation: -50 °C to 80 °C

reeling operation: -35 °C to 80 °C

Max. permissible conductor temp.: 90 °C

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

Mechanical parameters:

Tensile load static/dynamic: 15 / 30 N/mm²

Torsional stresses: ± 50 °/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: ≤ 240 m/min

Design:

Main cores:

Conductors:

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

HEPR compound acc. to IEC 60502-1, core colours: acc. to DIN VDE 0293-308

Insulation:

Ground conductor:

Conductor:

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

HEPR compound acc. to IEC 60502-1, core colours: green-yellow

Insulation:

Core arrangement:

multi cores stranded in layers

Inner sheath:

extra heavy duty rubber compound type 5GM5

acc. to DIN VDE 0207-21, filling the interstices braid made of synthetic threads, in a vulcanized bond between inner and outer sheath

Reinforcement:

extra heavy duty rubber compound type 5GM5

acc. to DIN VDE 0207-21, colour: yellow, inkjet marking

Outer sheath:

*other customized designs available on request

Application:

Heavy duty rubber cable for reeling applications with high mechanical stress, especially for high tensile load on vertical drum-spreader systems on e.g. ship-to-shore cranes or other hoisting systems.

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:	3.5 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

BiTcrane[®] (N)SHTOEU-J SPREADER

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Cat. no.	n x mm ²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
BC00123	36x1,5	29-32	1255
BC00124	44x1,5	32-35	1535
BC00125	30x2,5	32-35	1650
BC00126	36x2,5	32-35	1725
BC00127	25x2,5	29-32	1360
BC00130	42x2,5	36-40	2250
BC00128	44x2,5	36-40	2290
BC00129	56x2,5	43-46	2885

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