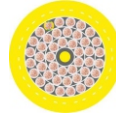


# BITcrane® (N)SHTOEU-J SPREADER



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/mm<sup>2</sup>  
**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  
**Insulation:** HEPR compound acc. to IEC 60502-1, core colours: acc. to DIN VDE 0293-308  
**Ground conductor:**  
**Conductor:** plain copper wires, finely stranded, acc. to IEC 60228 class 5  
**Insulation:** HEPR compound acc. to IEC 60502-1, core colours: green-yellow  
**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 <sub>0</sub> /U [kV]	0.6/1 kV
Maximum permissible operating voltage U <sub>0,max</sub> in AC systems [kV]:	0.7/1.2 kV
Maximum permissible operating voltage U <sub>0,max</sub> 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<sup>®</sup> (N)SHTOEU-J SPREADER

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Cat. no.	n x mm <sup>2</sup>	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
BC00128	44x2,5	38-41	2230
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