

# BiTcrane®STCN



Highly flexible, screened rubber cable with supporting element, rated 450/750 V



## Technical data:

### Thermal parameters:

#### Ambient temperature:

fixed installation: -40 °C to 80 °C  
flexible operation: -30 °C to 80 °C

#### Max. operating temp. on conductor:

during operation: 90 °C  
during short-circuit: 250 °C

### Mechanical parameters:

Insulation resistance: 20 MΩxkm

Min. bending radius: 10 x Ø

## Design:

### Conductors: Insulation:

plain copper wires, class 6 acc. to DIN EN/IEC 60228  
EPR compound type 3GI3 acc. to DIN VDE 0207-20;  
core identification:

≤ 6 cores: colour-coded with GN/YE protective conductor;  
≥ 6 cores: black, numbered, with GN/YE protective conductor;

### Core arrangement:

### Carrier element:

### Screen:

### Outer sheath:

cores stranded around center element  
textile or aramid-based strain relief element  
tinned copper wire braid, covering approx.: 80 %  
rubber compound acc. to DIN VDE 0207-21, type 5GM3,  
resistant to oil, ozone and UV radiation, flame retardant;  
colour: black with white imprint

## Application:

Highly flexible cable with strain relief element for use in lifting equipment, transportation, construction equipment and shipyard machinery. It is highly resistant to weather conditions, UV, moisture, water, polluted water and sea water. BiTcrane®STCN can be used indoors and outdoors without any additional restrictions. Its central element increases the mechanical strength of the cable so that free hanging lengths of up to 80 m. can be used.

## 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]	450/750 V
AC. test voltage:	3 kV

Cat. no.	n x mm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]	Tensile strength [N]
IP5300	6x0,75	12,0	240	1500
IP5301	4x1,0	11,0	205	300
IP5302	7x1,0	13,8	320	2500
IP5303	12x1,0	20,0	614	2500
IP5304	18x1,0	20,2	650	1550
IP5305	24x1,0	24,1	860	2500
IP5306	6x1,5	15,0	400	2100
IP5307	7x1,5	15,1	405	2500
IP5308	12x1,5	21,1	700	2500
IP5309	18x1,5	21,5	785	2000
IP5310	24x1,5	25,2	1030	2500

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

\*Outer diameter tolerance: ±5%