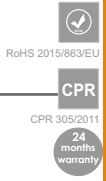


BiTcrane® (N)TSFLCGEWOEU



Crane cables

Medium voltage, flexible rubber flat power supply cable based on DIN VDE 0250-813



Technical data:

Thermal parameters:

Ambient temperature:
for fixed installation: -40 °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
De-rating factors: acc. to DIN VDE 0298-4

Mechanical parameters:

Max. tensile load on conductor: 15 N/mm²
Bending radius: acc. to DIN VDE 0298-3/IEC 60204-32
Min. distance with S-type directional changes: 20 x cable thickness
Reeling speed: up to 120 m/min

Design:

Conductor: tinned copper wires, finely stranded, class 5 acc. to DIN EN/IEC 60228
Insulation:
- inner semi-conductive stress control layer
- EPR compound with improved electrical and mechanical characteristics based on DIN VDE 0207-20
- outer semi-conductive insulation shield layer
Screen: plaited covering of the cores, consisting of fine tinned copper wires and synthetic threads
Outer sheath: heavy duty rubber compound, type 5GM5 acc. to DIN VDE 0207-21; colour: red, inkjet marking

Application:

Reeling cable for power supply with guidance in one level, e.g. monospiral reel on stockyard systems for bulk material handling like stacker/reclaimer.

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]	3.6/6	6/10	8.7/15
Max. permissible operating voltage U _{max} in AC systems [kV]:	4.2/7.2	6.9/12	10.4/18
Max. permissible operating voltage U _{max} in DC systems [kV]:	5.4/10.8	9/18	13.5/27
AC test voltage acc. to DIN VDE 0250-813 [kV]	11	17	24
Current-carrying capacities in amperes	acc. to DIN VDE 0298-4		

BiTcrane[®] (N)TSFLCGEWOEU

Medium voltage, flexible power supply cable for reeling applications based on DIN VDE 0250-813

Crane cables

BiTcrane[®] (N)TSFLCGEWOEU 3.6/6 kV

Cat. no.	n x mm ²	Nom. outer dimensions*) [mm]	Approximate cable weight [kg/km]	Max. tensile load [N]
BC00200	3x25 + 3x25/3E	24 x 55	2515	1125
BC00201	3x35 + 3x25/3E	25 x 58	2835	1575
BC00202	3x50 + 3x25/3E	27 x 63	3385	2250
BC00203	3x50 + 3x50/3E	27 x 64	3785	2250
BC00204	3x70 + 3x35/3E	30 x 70	4430	3150
BC00205	3x95 + 3x50/3E	32 x 76	5550	4275
BC00206	3x120 + 3x70/3E	33 x 80	6645	5400

BiTcrane[®] (N)TSFLCGEWOEU 6/10 kV

Cat. no.	n x mm ²	Nom. outer dimensions*) [mm]	Approximate cable weight [kg/km]	Max. tensile load [N]
BC00210	3x25 + 3x25/3E	25 x 58	2645	1125
BC00211	3x35 + 3x25/3E	26 x 61	2970	1575
BC00212	3x50 + 3x25/3E	28 x 66	3530	2250
BC00213	3x50 + 3x50/3E	28 x 67	3930	2250
BC00214	3x70 + 3x35/3E	31 x 72	4590	3150
BC00215	3x95 + 3x50/3E	33 x 78	5725	4275
BC00216	3x120 + 3x70/3E	34 x 82	6825	5400

BiTcrane[®] (N)TSFLCGEWOEU 8.7/15 kV

Cat. no.	n x mm ²	Nom. outer dimensions*) [mm]	Approximate cable weight [kg/km]	Max. tensile load [N]
BC00220	3x25 + 3x25/3E	27 x 63	2920	1125
BC00221	3x35 + 3x25/3E	28 x 66	3260	1575
BC00222	3x50 + 3x25/3E	29 x 70	3840	2250
BC00223	3x50 + 3x50/3E	30 x 72	4240	2250
BC00224	3x70 + 3x35/3E	32 x 77	4930	3150
BC00225	3x95 + 3x50/3E	34 x 83	6085	4275
BC00226	3x120 + 3x70/3E	36 x 87	7200	5400

*) thickness ±2mm; width ±4mm

Cable Factory BITNER reserves the right to modify specifications without prior notification.

*) please contact us if higher loads are required.

Note: on customer's request other cross sections or number of cores can be produced