

Medium voltage cable

BiTcrane[®] SHORE POWER (N)TSCGEW11Y



DERZEIT KEIN BILD VERFÜGBAR. | NO IMAGE AVAILABLE.

Application: The cables are suitable for use high voltage shore connection systems (HVCS), on board the ship and on shore, to supply the ship with electrical power from shore.

- IEC/EEE 80005-1: Utility connections in port — Part 1: High voltage shore connection (HVSC)
- Bending radius according to VDE 0298-3
- Current carrying capacity according to VDE 0298-4

Construction and technical data:

- Three cores laid around a central support element. Earth conductor, pilot cores and fiber elements positioned in the interstices.

| | |
|---|---|
| Standard: | IEC/ISO/IEEE 80005-1, VDE 0250-813 (with ref. to) |
| Conductor material: | tinned copper |
| Conductor construction: | Class 5 = flexible |
| Insulation: | basic EPR |
| Electrical field control: | inner and outer semiconducting rubber layer |
| Arrangement of protective conductors: | split in the outer interstices |
| Material inner sheath: | halogen-free |
| Sheathing material: | polyurethan |
| Colour of outer sheath: | black |
| Flame-retardant: | EN 60332-1-2 |
| Oil-resistant: | EN 60811-404 |
| Max. temperature at conductor, °C: | 90 °C |
| Max. short circuit temperature at conductor, °C: | 200 °C |
| Permitted outer cable temperature, fixed, °C: | -40 - +90 °C |
| Permitted outer cable temperature, moved, °C: | -30 - +90 °C |
| Bending radius, fixed installation: | 6 x Ø |
| Bending radius, moving application: | 10 x Ø |
| Maximum tensile strength at the conductor: | 25 N/mm ² |



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Bending radii

| installation | |
|--------------------|--------|
| free movement | 10 x Ø |
| reeling operation | 12 x Ø |
| fixed installation | 6 x Ø |

BiTcrane® SHORE POWER (N)TSCGEW11Y 6/10 kV

Nominal voltage U₀: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in 12 kV

three-phase systems:

Test voltage: 17 kV

| part no. | part name | RI [Ohm/km] | I _{bl} [A] | Ø [mm] | Cu | G [kg] |
|----------|---|-------------|---------------------|--------|------|--------|
| 054557 | 03x185+2x95/2+(8x2.5)C+ FO 12G62.5/125 BK | 0.108 | 461 | 78 | 6496 | 9965 |

RI | Conductor resistance

I_{bl} | Ampacity in air (30 °C)

Ø | outer diameter approx.

Cu | Copper weight (GER)

G | net weight per 1000