

Flexible medium voltage cable

BiTcrane[®] (N)TSKCGEWOEU-SR PLUS HS FO



Application: Flexible reeling cable with integrated fibre optics wires for high and extreme mechanical stresses, e.g. torsional stress, deflection into different planes and high reeling speed.

- Bending radius: acc. to VDE 0298-3
- Ampacity: acc. to VDE 0298-4
- Reeling speed (application with end feeding point): < 240 m/min

Optical fiber element:

- tube colour blue: 12G62.5/125 fiber
- tube colour yellow: 12E9/125 fiber

Construction and technical data:

Standard:	DIN VDE 0250-813 (with ref. to)
Conductor material:	copper, bare
Conductor construction:	Class 5 = flexible
Insulation:	basic EPR
Electrical field control:	semiconductive tape + inner and outer semiconducting rubber layer
Arrangement of protective conductors:	split in the outer interstices
Material inner sheath:	rubber 5GM5
Sheathing material:	rubber 5GM5
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	250 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-30 - +80 °C
Min. distance with S-type directional changes:	20 x Ø



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

on deflection pulleys	15 x Ø
reeling application	12 x Ø

BiTcrane[®] (N)TSKCGEWOEU-SR PLUS HS FO 6/10 kV

Nominal voltage U_o: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in 12 kV

three-phase systems:

Test voltage: 29 kV

part no.	part name	RI [Ohm/km]	I _{bl} [A]	I _k [kA]	Ø [mm]	F _{zp} [N]	F _{zd} [N]	Cu	G [kg]
053883	03x25+2x25/2+12E9/125+12G62.5/125	0.78	131	3.7	48	1125	6250	960	2890
053884	03x35+2x25/2+12E9/125+12G62.5/125	0.554	162	5.2	50	1575	7150	1248	3320
053885	03x50+2x25/2+12E9/125+12G62.5/125	0.386	202	7.5	54	2250	8500	1680	4061

RI	Conductor resistance
I _{bl}	Ampacity in air (30 °C)
I _k	Short-circuit current (1 s)
Ø	outer diameter approx.
F _{zp}	Tensile strength (permanent)
F _{zd}	Tensile strength (dynamic)
Cu	Copper weight (GER)
G	net weight per 1000