

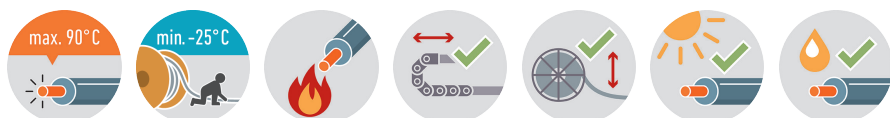
Flexible medium voltage cable BITflex[®] DC (N)TMCGCWOEU



Application: Power supply cable can be used in offshore power systems for low-speed energy chains, drum applications or to supply energy to large electrical applications and drives via energy carrier systems.

Construction and technical data:

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:	spirally applied tinned copper wires
Screen coverage:	85 %
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
Ozone-resistant:	yes
Max. temperature at conductor, °C:	90 °C
Max. short circuit temperature at conductor, °C:	200 °C
Permitted outer cable temperature, fixed, °C:	-40 - +80 °C
Permitted outer cable temperature, moved, °C:	-25 - +80 °C
Bending radius, moving application:	8 x Ø
Maximum tensile strength at the conductor:	15 N/mm ²
Operating speed:	240 m/min.



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.

BiTflex[®] DC (N)TMCGCWOEU 6/10 kV

Nominal voltage U_o:	6 kV
Nominal voltage U:	10 kV
Maximum permitted operating voltage in three-phase systems:	12 kV
Test voltage:	17 kV

part no.	part name	RI [Ohm/km]	I _{bl} [A]	Ø [mm]	Cu	G [kg]
053017	1x70/16	0.277	268	30	953	1545
053081	1x95/16	0.21	328	31.5	1094	1643
053082	1x120/16	0.164	383	34	1334	1991
053084	1x185/25	0.108	510	38	2059	2681

BiTflex[®] DC (N)TMCGCWOEU 12/20 kV

Nominal voltage U_o:	12 kV
Nominal voltage U:	20 kV
Maximum permitted operating voltage in three-phase systems:	24 kV
Test voltage:	29 kV

part no.	part name	RI [Ohm/km]	I _{bl} [A]	Ø [mm]	Cu	G [kg]
053398	1x50/16	0.393	216	31.5	662	1352
053400	1x95/16	0.21	319	36	1094	1949
053401	1x185/25	0.108	488	42.5	2059	3043
053135	1x120/16	0.164	371	34.6	1334	2240

RI	Conductor resistance
I _{bl}	Ampacity in air (30 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000