



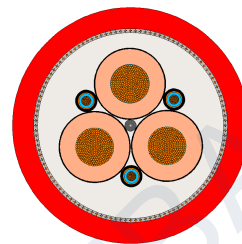
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

NTSKCGECW0EU

Coal cutter cable for chain operation



APPLICATION

Power supply connection cable for mobile equipment and machines in underground mining, including coal cutting machines. Designed for cable protection chains and cable handlers trailed behind the machine, where tensile forces and repeated movement must be absorbed.

CONSTRUCTION

Component	Description
Conductor	Finely stranded tinned copper conductor, class FS
PE / control conductor	Double concentric control / PE wire spinning in outer interstices
Insulation	EPR rubber compound type 3GI3
Electrical field control	Cold strippable outer layer of semiconductive rubber compound
Core identification	Main cores natural colour; control cores blue
Core arrangement	Three main cores laid up with double concentric control / PE conductor elements
Inner sheath	Vulcanized EPR rubber inner sheath, compound type GM1B
Armouring	Closed-lay spinning of steel / copper wires between inner and outer sheath
Outer sheath	Synthetic elastomer compound type 5GM5, red

OPERATING CHARACTERISTICS

Parameter	Value
Rated voltage	1.8/3 kV; 3.6/6 kV
Max. permissible operating voltage AC	2.1/3.6 kV; 4.2/7.2 kV
Max. permissible operating voltage DC	2.7/5.4 kV; 5.4/10.8 kV
AC test voltage	6 kV for 1.8/3 kV; 11 kV for 3.6/6 kV
AC test voltage - control cores	2 kV
Max. conductor operating temperature	90 °C
Max. short-circuit conductor temperature	250 °C
Fixed installation temperature	-40 °C to +90 °C
Fully flexible operation temperature	-20 °C to +90 °C
Maximum tensile load	15 N/mm ²
Bending radius	2.3 x D at max. 5 N/mm ² tensile load; S-type distance 20 x D

STANDARDS AND PERFORMANCE

STANDARDS

Parameter	Value
Cable standard	DIN VDE 0250-813
Fire performance	IEC 60332-1-2
Oil resistance	IEC 60811-404
Weather resistance	Outdoor and indoor use; resistant to ozone and moisture

TECHNICAL DATA

Manufacturer-specific article numbers have been omitted.

1.8/3 kV NTSKCGECWOEU - three control cores									
Cross-section	Conductor OD mm	OD min-max mm	Weight kg/km	Tensile N	DC res. ohm/km	Cap. uF/km	Ind. mH/km	Current A	Short kA
3x25+3x(1.5ST+16/3)+UEL	7.1	40.1-43.1	3100	1125	0.795	0.33	0.32	131	3.58
3x35+3x(1.5ST+25/3)+UEL	8.4	44.3-47.3	3970	1575	0.565	0.38	0.30	162	5.01
3x50+3x(1.5ST+25/3)+UEL	10.1	49.7-52.7	4900	2250	0.393	0.44	0.29	202	7.15
3x70+3x(1.5ST+35/3)+UEL	11.9	53.2-57.2	6020	3150	0.277	0.50	0.27	250	10.01
3x95+3x(1.5ST+50/3)+UEL	14	58.6-62.6	7450	4275	0.210	0.54	0.27	301	13.59
3x120+3x(1.5ST+70/3)+UEL	15.5	62.9-66.9	9060	5400	0.164	0.58	0.27	352	17.16
3x150+3x(1.5ST+70/3)+UEL	17.2	69-73	10820	6750	0.132	0.64	0.26	404	21.45
3x185+3x(1.5ST+95/3)+UEL	19.1	73.2-77.2	12530	8325	0.108	0.70	0.25	461	26.46
3x240+3x(1.5ST+120/3)+UEL	22	80.7-85.7	15700	10800	0.0817	0.79	0.25	540	34.32

TECHNICAL DATA

Manufacturer-specific article numbers have been omitted.

3.6/6 kV NTSKGECEWUEU - three control cores									
Cross-section	Conductor OD mm	OD min-max mm	Weight kg/km	Tensile N	DC res. ohm/km	Cap. uF/km	Ind. mH/km	Current A	Short kA
3x25+3x(1.5ST+16/3)+UEL	7.1	45-48	3600	1125	0.795	0.34	0.33	131	3.58
3x35+3x(1.5ST+25/3)+UEL	8.4	48.3-51.3	4360	1575	0.565	0.38	0.31	162	5.01
3x50+3x(1.5ST+25/3)+UEL	10.1	51.4-55.4	5320	2250	0.393	0.43	0.30	202	7.15
3x70+3x(1.5ST+35/3)+UEL	11.9	56.7-60.7	6560	3150	0.277	0.49	0.29	250	10.01
3x95+3x(1.5ST+50/3)+UEL	14	61.2-65.2	7890	4275	0.210	0.55	0.28	301	13.59
3x120+3x(1.5ST+70/3)+UEL	15.5	67.3-71.3	9780	5400	0.164	0.60	0.27	352	17.16
3x150+3x(1.5ST+70/3)+UEL	17.2	71.7-75.7	11300	6750	0.132	0.64	0.26	404	21.45
3x185+3x(1.5ST+95/3)+UEL	19.1	75.1-79.1	12790	8325	0.108	0.69	0.25	461	26.46
3x240+3x(1.5ST+120/3)+UEL	22	82.7-87.7	15900	10800	0.0817	0.77	0.25	540	34.32

TECHNICAL DATA

Manufacturer-specific article numbers have been omitted.

3.6/6 kV NTSKCGECWOEU - six control cores									
Cross-section	Conductor OD mm	OD min-max mm	Weight kg/km	Tensile N	DC res. ohm/km	Cap. uF/km	Ind. mH/km	Current A	Short kA
3x35+3x(2x1.5ST+25/3)+UEL	8.4	49-53	4620	1575	0.565	0.38	0.31	162	5.01
3x50+3x(2x1.5ST+25/3)+UEL	10.1	53.9-57.9	5550	2250	0.393	0.43	0.30	202	7.15
3x70+3x(2x1.5ST+35/3)+UEL	11.9	56.7-60.7	6760	3150	0.277	0.49	0.39	250	10.01
3x95+3x(2x1.5ST+50/3)+UEL	14	62-66	7900	4275	0.210	0.55	0.28	301	13.59
3x120+3x(2x1.5ST+70/3)+UEL	15.5	67.3-71.3	9800	5400	0.164	0.60	0.27	352	17.16
3x150+3x(2x1.5ST+70/3)+UEL	17.2	71-75	11100	6750	0.132	0.64	0.26	404	21.45
3x185+3x(2x1.5ST+95/3)+UEL	19.1	75.1-79.1	13000	8325	0.108	0.69	0.25	461	26.46
3x240+3x(2x1.5ST+120/3)+UEL	22	82.7-87.7	16000	10800	0.0817	0.77	0.25	540	34.32

Current carrying capacity is based on rubber cables laid on a surface at 30 °C ambient temperature.

CERTIFICATIONS



TEBAOFLEX CABLE