



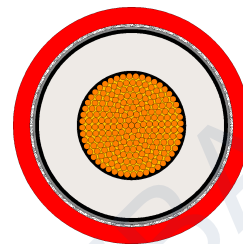
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

NTMCW0EU

Single core medium voltage rubber cable



APPLICATION

Single-core medium voltage cable for connections in switchgear or transformer houses where a very small bending radius is required. Suitable for festoon systems, shiftable units, mobile transformers and similar equipment.

CONSTRUCTION

Component	Description
Conductor	Tinned copper, finely stranded Class 5 according to DIN VDE 0295
Insulation	EPR rubber compound type 3GI3
Electrical field control	Inner and outer semi-conductive rubber compound, cold strippable outer layer
Core identification	Natural colour according to DIN VDE 0250 Part 813
Screen	Spinning of tinned copper wires
Outer sheath	Rubber compound type 5GM5 according to DIN VDE 0207 Part 21, red

OPERATING CHARACTERISTICS

Parameter	Value
Rated voltage range	3.6/6 kV to 18/30 kV
AC test voltage	11 kV, 17 kV, 24 kV, 29 kV, 36 kV, 43 kV
Partial discharge	IEC 60502-2, 1.75 x U ₀ , <10 pC
Max. conductor operating temperature	90 °C
Max. short-circuit conductor temperature	250 °C
Fixed installation temperature	-40 °C to +90 °C
Flexible operation temperature	-25 °C to +90 °C
Maximum tensile load	15 N/mm ²
Torsional stress	+/- 25 °/m

STANDARDS AND PERFORMANCE

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, UV and moisture

TECHNICAL DATA

Dimensions and electrical values. Manufacturer-specific article numbers have been omitted.

3.6/6 kV						
Cross section	Cond. dia.	OD min-max	Weight	Tensile	DC res.	Current
1x25/16KON	6.2	19.1-21.6	750	375	0.795	178
1x35/16KON	7.5	20.4-22.9	850	525	0.565	220
1x50/16KON	9	21.8-24.3	1000	750	0.393	275
1x70/16KON	10.6	23.5-26	1250	1050	0.277	340
1x95/16KON	12.6	26.1-28.6	1500	1425	0.21	409
1x120/16KON	14.8	28.1-30.6	1800	1800	0.164	479
1x150/25KON	16	29.4-31.9	2150	2250	0.132	549
1x185/25KON	17.7	32.2-34.7	2550	2775	0.108	627
1x240/25KON	20.3	34.8-37.3	3100	3600	0.0817	734
1x300/25KON	22.5	38-40.5	3750	4500	0.0654	843

6/10 kV						
Cross section	Cond. dia.	OD min-max	Weight	Tensile	DC res.	Current
1x16/16KON	5.3	19-22	760	240	1.24	135
1x25/16KON	6.2	21.8-24.3	890	375	0.795	178
1x35/16KON	7.5	23.1-25.6	990	525	0.565	220
1x50/16KON	9	26.1-28.6	1260	750	0.393	275
1x70/16KON	10.6	28.3-30.8	1540	1050	0.277	340
1x95/16KON	12.6	29.4-31.9	1720	1425	0.21	409
1x120/16KON	14.8	31.6-34.1	2010	1800	0.164	479
1x150/25KON	16	33.3-35.8	2430	2250	0.132	549
1x185/25KON	17.7	35.1-37.6	2800	2775	0.108	627
1x240/25KON	20.3	38.7-41.2	3420	3600	0.0817	734
1x300/25KON	22.5	40.9-43.4	4100	4500	0.0654	843
1x400/35KON	26.5	44.3-47.3	5260	6000	0.05	1024
1x500/35KON	29.3	47.7-50.7	6260	7500	0.0391	1178
1x630/35KON	33.9	52.2-56.2	7930	9450	0.0292	1364

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

TECHNICAL DATA

Dimensions and electrical values. Manufacturer-specific article numbers have been omitted.

8.7/15 kV						
Cross section	Cond. dia.	OD min-max	Weight	Tensile	DC res.	Current
1x25/16KON	6.2	24.6-27.1	1000	375	0.795	189
1x35/16KON	7.5	25.9-28.4	1150	525	0.565	234
1x50/16KON	9	27.3-29.8	1350	750	0.393	292
1x70/16KON	10.6	31.1-33.6	1650	1050	0.277	360
1x95/16KON	12.6	32-34.5	1900	1425	0.21	434
1x120/16KON	14.8	34.2-36.7	2200	1800	0.164	505
1x150/25KON	16	36.5-39	2700	2250	0.132	582
1x185/25KON	17.7	38.3-40.8	3050	2775	0.108	664
1x240/25KON	20.3	40.9-43.4	3600	3600	0.0817	781
1x300/25KON	22.5	43.1-45.6	4200	4500	0.0654	898
1x400/35KON	26.5	47-50	4620	6000	0.05	1074
1x500/35KON	29.3	49-52	4800	7500	0.0391	1224

12/20 kV						
Cross section	Cond. dia.	OD min-max	Weight	Tensile	DC res.	Current
1x25/16KON	6.2	26.4-28.9	1090	375	0.795	189
1x35/16KON	7.5	27.6-30.1	1250	525	0.565	234
1x50/16KON	9	29.3-31.8	1460	750	0.393	292
1x70/16KON	10.6	33.5-36	1850	1050	0.277	360
1x95/16KON	12.6	34.6-37.1	2090	1425	0.21	434
1x120/16KON	14.8	36.4-38.9	2380	1800	0.164	505
1x150/25KON	16.2	38.9-41.4	2920	2250	0.132	582
1x185/25KON	17.7	40.1-42.6	3260	2775	0.108	664
1x240/25KON	20.3	43.3-45.8	3840	3600	0.0817	781
1x300/25KON	22.5	44.9-47.4	4470	4500	0.0654	898
1x400/35KON	26.5	48-52	5730	6000	0.05	1074
1x500/35KON	29.3	52-56	6720	7500	0.0391	1224
1x630/35KON	35.2	58.5-61.5	8660	9450	0.0292	1360

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

TECHNICAL DATA

Dimensions and electrical values. Manufacturer-specific article numbers have been omitted.

14/25 kV						
Cross section	Cond. dia.	OD min-max	Weight	Tensile	DC res.	Current
1x25/16KON	6.2	29.2-31.7	1300	375	0.795	189
1x35/16KON	7.5	31.5-34	1500	525	0.565	234
1x50/16KON	9	32.9-35.4	1700	750	0.393	292
1x70/16KON	10.6	34.6-37.1	2150	1050	0.277	360
1x95/16KON	12.6	37.6-40.1	2300	1425	0.21	434
1x120/16KON	14.8	39.8-42.3	2850	1800	0.164	505
1x150/25KON	16	41.1-43.6	3050	2250	0.132	582
1x185/25KON	17.7	42.9-45.4	3450	2775	0.108	664
1x240/25KON	20.3	45.5-48	4050	3600	0.0817	781
1x300/25KON	22.5	48.7-51.2	4860	4500	0.0654	898
1x400/35KON	26.5	49.2-53.2	5300	6000	0.05	1074
1x500/35KON	29.3	52-56	5500	7500	0.0391	1224
1x630/35KON	33.9	56.6-60.6	5800	9450	0.0292	1360

18/30 kV						
Cross section	Cond. dia.	OD min-max	Weight	Tensile	DC res.	Current
1x25/16KON	6.2	32.4-34.9	1520	375	0.795	189
1x35/16KON	7.5	33.7-36.2	1650	525	0.565	234
1x50/16KON	9	35.4-37.9	1900	750	0.393	292
1x70/16KON	10.6	37.8-40.3	2300	1050	0.277	360
1x95/16KON	12.6	39.8-42.3	2900	1425	0.21	434
1x120/16KON	14.8	42.1-44.6	3300	1800	0.164	505
1x150/25KON	16	43.5-46	3580	2250	0.132	582
1x185/25KON	17.7	45.1-47.6	4050	2775	0.108	664
1x240/25KON	20.3	48.7-51.2	4530	3600	0.0817	781
1x300/25KON	22.5	50.9-54.4	5600	4500	0.0654	898
1x400/35KON	26.5	55.4-59.4	6380	6000	0.05	1074

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

CERTIFICATIONS



TEBAOFLEX CABLE