



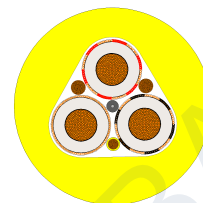
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

(N)TMCETMPU

6/10 kV to 14/25 kV three conductor round portable trailing cable



APPLICATION

For special requirements in open pit and especially underground mining. Designed for extremely high mechanical stress, particularly high tensile and abrasion stress. Used to connect heavy self-driven loaders, shuttle cars and similar equipment supplied with electrical power by cable reels. Also suitable for dry, moist and wet rooms as well as outdoor site applications.

CONSTRUCTION

Component	Description
Conductors	Finely stranded tinned copper, flexible class 5 in accordance with IEC 60228
Power cores	Inner semi-conductive rubber layer, high-grade EPR insulation and outer semi-conductive rubber layer; layers are cross-linked in one triple-extrusion process. Mixed braid with tinned copper wires and colored textile threads.
Insulation	Special thermosetting EPR with high electrical, mechanical and temperature properties; quality better than type 3GI3
Circuit identification	Colored textile threads of braid: black, white, red
Ground check conductor	Annealed tin-coated copper in accordance with IEC 60228; polypropylene insulation, yellow
Grounding conductor	Tinned copper conductor, flexible, finely stranded
Assembly	Three power cores, two earth conductors and one ground check cabled together with rubber-filled binder tape overall
Jacket	Thermoplastic polyurethane compound for extra heavy usage; oil resistant, very high abrasion and tear resistance
Jacket colour	Yellow; other colours available on request

CHARACTERISTICS

- Excellent flexibility.
- Highly ozone and weather resistant.
- Excellent impact and abrasion resistance.
- Oil and heat resistant.
- Ink-jet printed for easy identification.

OPERATING CHARACTERISTICS

Parameter	Unit	Value
Standards		Based on IEC 60502, VDE 0250 part 813, IEC 60228
Rated voltage	kV	6/10, 8.7/15, 14/25
Voltage test	kV	AC 17 for 6/10; AC 24 for 8.7/15; AC 36 for 14/25; 5 min.
Max. conductor temperature on continuous	°C	90
Max. Short time overload temperature(2 h)	°C	130
Maximum conductor short time temperature	°C	250
Low-temperature flexibility	°C	-30
Minimum bending radius		>= 4D fixed installation; >= 7.5D free bending on drum
Approvals		MSHA -KA120001-1

PACKING

Standard length cable packing 300 m on drums; other packing and delivery forms available on request.

TECHNICAL DATA

DIMENSIONS AND ELECTRICAL CHARACTERISTICS

Values are technical parameters only. Cable dimensions may vary due to manufacturing tolerances.

Cross-section mm2	Power stranding N x mm	Grounding / check stranding N x mm	Insulation mm	Jacket mm	OD mm	Resistance 20 °C ohm/km	Ampacity 30 °C A	Weight kg/km
6/10 kV								
3 x 50 + 2 x 16 + 1 x 10	364 x 0.4	116 x 0.4 / 74 x 0.4	3.4	5.5	54.0	0.393	202	4307
3 x 70 + 2 x 35 + 1 x 10	514 x 0.4	254 x 0.4 / 74 x 0.4	3.4	5.5	54.8	0.277	250	5534
3 x 95 + 2 x 35 + 1 x 16	684 x 0.4	254 x 0.4 / 116 x 0.4	3.4	5.5	62.6	0.210	301	6901
3 x 120 + 2 x 50 + 1 x 10	870 x 0.4	364 x 0.4 / 74 x 0.4	3.4	5.5	66.3	0.164	352	7467
3 x 185 + 2 x 70 + 1 x 35	1325 x 0.4	514 x 0.4 / 254 x 0.4	3.4	5.5	75.6	0.108	461	11100
8.7/15 kV								
3 x 50 + 2 x 16 + 1 x 10	364 x 0.4	116 x 0.4 / 74 x 0.4	4.5	5.5	60.3	0.393	215	4900
3 x 70 + 2 x 35 + 1 x 10	514 x 0.4	254 x 0.4 / 74 x 0.4	4.5	5.5	63.2	0.277	265	6100
3 x 95 + 2 x 35 + 1 x 16	684 x 0.4	254 x 0.4 / 116 x 0.4	4.5	5.5	68.2	0.210	319	7100
3 x 120 + 2 x 50 + 1 x 10	870 x 0.4	364 x 0.4 / 74 x 0.4	4.5	5.5	72.2	0.164	371	8400
3 x 185 + 2 x 70 + 1 x 35	1325 x 0.4	514 x 0.4 / 254 x 0.4	4.5	5.5	76.7	0.108	488	12100
14/25 kV								
3 x 50 + 2 x 16 + 1 x 10	364 x 0.4	116 x 0.4 / 74 x 0.4	6.8	5.5	65.1	0.393	215	6800
3 x 70 + 2 x 35 + 1 x 10	514 x 0.4	254 x 0.4 / 74 x 0.4	6.8	5.5	69.7	0.277	265	8000
3 x 95 + 2 x 35 + 1 x 16	684 x 0.4	254 x 0.4 / 116 x 0.4	6.8	5.5	75.3	0.210	319	9000
3 x 120 + 2 x 50 + 1 x 10	870 x 0.4	364 x 0.4 / 74 x 0.4	6.8	5.5	78.3	0.164	371	9400
3 x 185 + 2 x 70 + 1 x 35	1325 x 0.4	514 x 0.4 / 254 x 0.4	6.8	5.5	86.3	0.108	488	14000

NOTES

- Ampacity values are stated for 30 °C ambient temperature.
- Voltage test time: 5 minutes.
- Minimum bending radius: >= 4D fixed installation; >= 7.5D free bending on drum.

CERTIFICATIONS

