



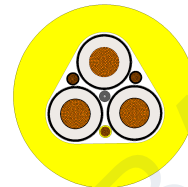
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

(N)TMCGETMPU

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



APPLICATION

For use in surface and underground mines, quarries and industrial areas for connection of heavy mobile equipment such as shovels, draglines, continuous miners, cutting and loading machines, dredges, drills and other track equipment. Designed for extreme conditions with high mechanical stress, particularly high tensile and abrasion stress, and for continuous reeling and unreeling applications supplied by cable reels.

CONSTRUCTION

Component	Description
Conductors	Finely stranded tinned copper, flexible class 5 in accordance with IEC 60228
Conductor shield	Semi-conducting layer over the conductor
Insulation	Special thermosetting EPR with high electrical, mechanical and temperature properties; quality better than type 3GI3
Insulation shield	Semi-conducting strippable layer
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, one ground check and two grounding conductors cabled together with semi-conducting 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 500 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 70 + 2 x 35 + 1 x 35	514 x 0.4	254 x 0.4 / 254 x 0.4	3.4	5.5	54.3	0.277	250	5334
3 x 95 + 2 x 35 + 1 x 35	684 x 0.4	254 x 0.4 / 254 x 0.4	3.4	5.5	62.1	0.210	301	6701
3 x 120 + 2 x 50 + 1 x 35	870 x 0.4	364 x 0.4 / 254 x 0.4	3.4	5.5	65.8	0.164	352	7267
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	75.1	0.108	461	10900
8.7/15 kV								
3 x 70 + 2 x 35 + 1 x 35	514 x 0.4	254 x 0.4 / 254 x 0.4	4.5	5.5	62.7	0.277	265	5900
3 x 95 + 2 x 35 + 1 x 35	684 x 0.4	254 x 0.4 / 254 x 0.4	4.5	5.5	67.7	0.210	319	6900
3 x 120 + 2 x 50 + 1 x 35	870 x 0.4	364 x 0.4 / 254 x 0.4	4.5	5.5	71.7	0.164	371	8200
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	76.2	0.108	488	11900
14/25 kV								
3 x 70 + 2 x 35 + 1 x 35	514 x 0.4	254 x 0.4 / 254 x 0.4	6.8	5.5	69.2	0.277	265	7800
3 x 95 + 2 x 35 + 1 x 35	684 x 0.4	254 x 0.4 / 254 x 0.4	6.8	5.5	74.8	0.210	319	8800
3 x 120 + 2 x 50 + 1 x 35	870 x 0.4	364 x 0.4 / 254 x 0.4	6.8	5.5	77.8	0.164	371	9200
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	85.8	0.108	488	13800

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

