



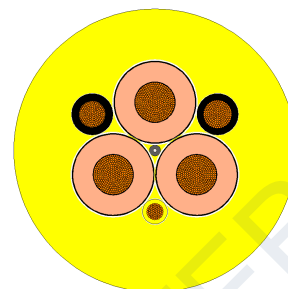
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

RIT-(N)TMCGETMPU CABLE

6/10 kV to 14/25 kV portable trailing cable



APPLICATION

Three-conductor round portable trailing cable for surface and underground mines, quarries and industrial areas. Used for connection of heavy mobile equipment such as shovels, draglines, continuous miners, cutting and loading machines, dredges, drills and other tracked equipment. Suitable for continuous reeling and unreeling applications where heavy mobile equipment is supplied with electrical power by cable reels.

CONSTRUCTION

Parameter	Value
Conductors	Finely stranded tinned copper, flexible class 5 according to IEC 60228
Conductor shield	Semi-conductive layer over the conductor
Insulation	Special thermosetting EPR with high electrical, mechanical and temperature properties; better than type 3GI3 according to DIN VDE 0207 part 20
Insulation shield	Semi-conducting strippable layer
Ground check conductor	Annealed tin-coated copper according to IEC 60228 with yellow polypropylene insulation
Grounding conductor	Finely stranded flexible tinned copper conductor
Assembly	Three power, ground check and two grounding conductors cabled together; semi-conducting binder tape overall; integral filled jacket for higher torsion resistance
Jacket	Thermoplastic polyurethane compound for extra heavy use; oil resistant, highly abrasion resistant and highly tear resistant
Jacket colour	Yellow

OPERATING CHARACTERISTICS

Parameter	Value
Rated voltage U ₀ /U	6/10 kV; 8.7/15 kV; 14/25 kV
Maximum conductor operating temperature	+90 deg C
Maximum short-circuit temperature	+200 deg C
Low temperature rating	Flexible at -30 deg C
Voltage test	AC 17 kV for 6/10 kV; AC 24 kV for 8.7/15 kV; AC 36 kV for 14/25 kV; 5 min
Minimum bending radius	>= 4 D fixed installation; >= 7.5 D free bending on drum
Performance	Excellent flexibility, ozone resistance, weather resistance, impact resistance, abrasion resistance, oil resistance and heat resistance

STANDARDS AND PERFORMANCE

- IEC 60502
- VDE 0250 part 813
- IEC 60228 class 5 flexible conductors

- Designed for portable trailing and reeling applications
- MSHA approval: P-07-KA120001-1-MSHA
- UV resistant construction

TECHNICAL DATA

Nominal dimensional data. Source brand marking has been omitted.

Dimensions and Electrical Data									
Voltage kV	Size mm2	Power stranding	Ground/GC stranding	Insul. mm	Jacket mm	Dia. mm	R20 ohm/km	Amp. A	Weight kg/km
6/10	3x70+2x35+1x35	514x0.4	254x0.4/254x0.4	2.9	5.5	53.2	0.277	250	5050
6/10	3x95+2x35+1x35	684x0.4	254x0.4/254x0.4	2.9	5.5	61.0	0.210	301	6401
6/10	3x120+2x50+1x35	870x0.4	364x0.4/254x0.4	2.9	5.5	64.7	0.164	352	7067
6/10	3x185+2x70+1x35	1325x0.4	514x0.4/254x0.4	2.9	5.5	74.0	0.108	461	10300
8.7/15	3x70+2x35+1x35	514x0.4	254x0.4/254x0.4	3.7	5.5	61.0	0.277	265	5300
8.7/15	3x95+2x35+1x35	684x0.4	254x0.4/254x0.4	3.7	5.5	66.0	0.210	319	6300
8.7/15	3x120+2x50+1x35	870x0.4	364x0.4/254x0.4	3.7	5.5	70.0	0.164	371	7600
8.7/15	3x185+2x70+1x35	1325x0.4	514x0.4/254x0.4	3.7	5.5	77.5	0.108	488	11300
14/25	3x70+2x35+1x35	514x0.4	254x0.4/254x0.4	5.5	5.5	67.4	0.277	265	7200
14/25	3x95+2x35+1x35	684x0.4	254x0.4/254x0.4	5.5	5.5	73.0	0.210	319	8200
14/25	3x120+2x50+1x35	870x0.4	364x0.4/254x0.4	5.5	5.5	76.0	0.164	371	8600
14/25	3x185+2x70+1x35	1325x0.4	514x0.4/254x0.4	5.5	5.5	84.0	0.108	488	13200

Ampacity values are approximate at 30 deg C ambient. Cable dimensions may vary due to manufacturing tolerances.

CERTIFICATIONS



TEBAOFLEX CABLE