



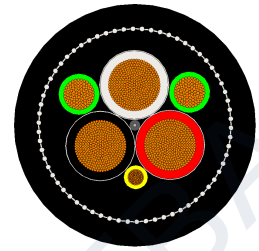
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrialcable

TYPE G-GC

Round three-conductor 2 kV portable mining power cable with CPE jacket



APPLICATION

Heavy-duty round trailing cable for 2 kV AC surface and underground mining equipment. Especially suitable for blast-hole drills, continuous miners, pumps, cutters, loading machines, shuttle cars and other mobile equipment requiring frequent relocation. The cable incorporates two grounding conductors and a separate ground-check conductor for protective monitoring, while EPR insulation and a reinforced mold-cured CPE jacket provide reliable service in demanding environments exposed to abrasion, flexing, moisture, ozone and weather.

CONSTRUCTION

Component	Description
Power conductors	Flexible rope-lay stranded tinned copper conductors
Insulation	Heat-, moisture- and ozone-resistant 90 deg C ethylene-propylene rubber (EPR)
Grounding conductors	Two flexible rope-lay stranded tinned copper grounding conductors
Ground-check conductor	Flexible tinned copper conductor with yellow polypropylene insulation
Separator	Non-conductive separator tape over the cabled core assembly
Reinforcement	Textile reinforcement embedded beneath the outer jacket for severe trailing service
Outer jacket	Heavy-duty reinforced mold-cured thermosetting chlorinated polyethylene (CPE), black
Cable shape	Round three-conductor construction with grounding and ground-check conductors

CHARACTERISTICS

- Heavy-duty 2 kV portable mining power cable for severe trailing service.
- Integrated grounding conductors and an insulated ground-check conductor.
- EPR insulation supports continuous conductor operation up to +90 deg C.
- Reinforced mold-cured CPE jacket provides abrasion, moisture, ozone and weather resistance.
- Round construction supports handling, routing and repeated relocation of mobile equipment.
- Available for surface and underground mining equipment within applicable installation requirements.

TECHNICAL INFORMATION

Parameter	Unit	Value
Rated voltage	V	2000
Maximum conductor temperature	°C	+90
Ambient temperature for ampacity	°C	+40
Primary cable standard		ICEA S-75-381 / NEMA WC 58
Conductor standards		ASTM B172; ASTM B33
Canadian standard		CAN/CSA-C22.2 No. 96

TECHNICAL DATA

DIMENSIONS, WEIGHT AND AMPACITY

Nominal construction dimensions, cable weight and continuous-duty current-carrying capacity.

Power conductors 3 x AWG/kcmil	Power strands	Grounding conductors 2 x AWG/kcmil / strands	Ground-check AWG	Insulation mil / mm	Overall diameter in / mm	Weight lb/kft / kg/km	Ampacity A
TYPE G-GC 2 kV							
3 x 8	133	2 x 10 / 49	10	60 / 1.52	0.97 / 24.6	600 / 893	59
3 x 6	259	2 x 10 / 49	10	60 / 1.52	1.05 / 26.7	750 / 1116	79
3 x 4	259	2 x 8 / 133	10	60 / 1.52	1.19 / 30.2	1070 / 1592	104
3 x 2	259	2 x 7 / 133	10	60 / 1.52	1.34 / 34.0	1480 / 2202	138
3 x 1	259	2 x 6 / 133	8	80 / 2.03	1.51 / 38.4	1890 / 2813	161
3 x 1/0	266	2 x 5 / 133	8	80 / 2.03	1.65 / 41.9	2340 / 3482	186
3 x 2/0	323	2 x 4 / 259	8	80 / 2.03	1.75 / 44.5	2750 / 4092	215
3 x 3/0	418	2 x 2 / 259	8	80 / 2.03	1.89 / 48.0	3377 / 5026	249
3 x 4/0	532	2 x 2 / 259	8	80 / 2.03	2.04 / 51.8	3980 / 5923	287
3 x 250	627	2 x 2 / 259	6	95 / 2.41	2.39 / 60.7	5000 / 7441	320
3 x 350	888	2 x 1/0 / 266	6	95 / 2.41	2.68 / 68.1	6750 / 10046	394
3 x 500	1221	2 x 2/0 / 323	6	95 / 2.41	3.03 / 77.0	8900 / 13245	487

NOTES

- Metric dimensions and weights are rounded conversions of the source imperial values.
- Ampacity is based on continuous duty at +90 deg C conductor temperature and +40 deg C ambient temperature.
- Outside-diameter tolerance: +/-0.030 in for 8-1 AWG; +/-0.040 in for 1/0-2/0 AWG.
- Outside-diameter tolerance: +/-0.050 in for 3/0-4/0 AWG; +/-0.060 in for 250-500 kcmil.

REEL CORRECTION FACTORS

Number of wound layers	Multiplying factor
1	0.85
2	0.65
3	0.45
4	0.35

CERTIFICATIONS

