



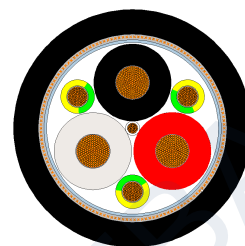
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

VFD POWER CABLE

3 power + 3 ground + ground-check 2000 V VFD cable



APPLICATION

Flexible, braid- and foil-shielded 2000 V power cable specifically engineered for variable-frequency AC motor drive applications. Suitable for surface and underground mining VFD equipment, mobile power systems and installations requiring three power conductors, three grounding conductors and ground-check conductor(s).

CONSTRUCTION

Component	Description
Power conductors	Three extra-flexible tinned rope-stranded conductors to ASTM B-172 and B-33
Insulation	Type II EPDM (EPR), ozone resistant and suitable for continuous operation at 90 deg C
Ground conductors	Three flexible tinned rope-stranded conductors, insulated and coloured green
Ground-check conductor	Flexible tinned copper with yellow insulation; center ground check available
Shield	Overall tinned copper braid plus aluminum/polyester tape providing 100% coverage
Outer jacket	Reinforced mold-cured thermosetting chlorinated polyethylene (CPE) jacket
Identification	Permanent cable marking; phase colour identification available
Cable shape	Round-shaped VFD cable cross-section

CHARACTERISTICS

- Flexible, braid- and foil-shielded 2000 V power cable for variable-frequency AC motor drives.
- Three power conductors, three grounding conductors and ground-check conductor(s).
- Type II EPDM insulation supports continuous operation at +90 deg C.
- CPE jacket and complete shield provide protection for demanding mining service.
- Suitable for surface and underground mining VFD equipment and mobile installations.
- Cable diameters are subject to +/-5% manufacturing tolerance.

TECHNICAL INFORMATION

Parameter	Unit	Value
Rated voltage	V	2000
Maximum conductor temperature	°C	+90 continuous
Ampacity ambient	°C	+40 air
Primary cable standard		ICEA S-75-381 / NEMA WC-58
Conductor standards		ASTM B-172 and ASTM B-33
Additional standard		CSA C22.2 No. 96

TECHNICAL DATA

DIMENSIONS, WEIGHT AND AMPACITY

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

Power conductor AWG/kcmil	Grounding conductors AWG	Nominal jacket thickness in / mm	Nominal outside diameter in / mm	Approx. weight lb/1000 ft	Ampacity A	Configuration	Shield
3 POWER + 3 GROUND + GROUND CHECK - 2000 V							
2	28	0.155 / 3.9	1.43 / 36.3	1790	159	3 + GC	Braid + foil
1	17	0.170 / 4.3	1.64 / 41.7	2150	184	3 + GC	Braid + foil
1/0	6	0.170 / 4.3	1.74 / 44.2	2550	211	3 + GC	Braid + foil
2/0	5	0.190 / 4.8	1.89 / 48.0	3100	243	3 + GC	Braid + foil
3/0	4	0.190 / 4.8	2.01 / 51.1	4050	279	3 + GC	Braid + foil
4/0	3	0.220 / 5.6	2.17 / 55.1	4390	321	3 + GC	Braid + foil
250	3	0.220 / 5.6	2.40 / 61.0	5950	355	3 + GC	Braid + foil
350	1	0.235 / 6.0	2.68 / 68.1	7840	435	3 + GC	Braid + foil
500	1/0	0.265 / 6.7	3.03 / 77.0	9730	536	3 + GC	Braid + foil

NOTES

- Metric dimensions and weights are rounded conversions of the source imperial values.
 - Ampacity is calculated with a 90 deg C conductor temperature and 40 deg C ambient air.
- Cable diameters are subject to +/-5% manufacturing tolerance.
 - Center ground check is available; non-center ground check wires have a 14 AWG minimum size.

REEL CORRECTION FACTORS

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

CERTIFICATIONS

