

VFD POWER CABLE • SHIELDED • 2000 VOLTS

3 CONDUCTORS + 3 GROUNDS + GROUND CHECK(S)

Ground Conductors (x3)

Flexible tinned rope stranded conductors per ASTM-B-172 and B-33, Insulated and colored green

Insulation

Type II EPDM (EPR) suitable for continuous operation at 90°C. Ozone resistant.

Shield

Overall tinned copper braid plus aluminum/polyester tape providing 100% coverage

Jacket

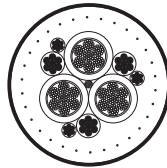
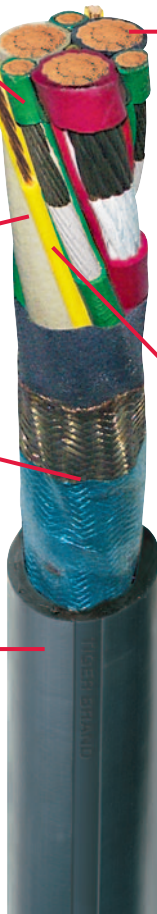
Reinforced mold-cured thermosetting Chlorinated Polyethylene (CPE) Jacket. Cable identification via permanent marking.

Power Conductor

Extra flexible tinned rope stranded conductors per ASTM-172 and B-33

Ground Check¹ Wire(s) Optional

Flexible tinned copper with yellow insulation. Center ground check available



APPLICATION

A flexible, braid and foil shielded, 2kV power cable specifically engineered for use in variable frequency AC motor drive (VFD) applications.

Cable carries "P-184-MSHA" marking indicating acceptance as flame resistant by the Pennsylvania Department of Environmental Protection and the Mine Safety and Health Administration.

Tiger® Brand Mining Cable materials meet or exceed ICEA Standard S-75-381/NEMA WC-58 for Type SHC constructions. ASTM B-172 and B-33.

RATINGS & APPROVALS

- Mine Safety & Health Administration 7K-184-MSHA.
- Pennsylvania Department of Environmental Protection P-7K-184.
- Canadian Standards Association File 82346 2kV CSA Phase Color ID available on MTO
- 90°C Temperature Rating
- Tiger® Brand Mining Cable materials meet or exceed ICEA Standard S-75-381/NEMA WC-58.

See Page 30 for jacket color options.

Part No. 36-501-	Power Conductor Size AWG/kcmil	Grounding Conductors Size AWG ¹	Nominal Jacket Thickness in.	Nominal Diameter in.	Approx. Weight lbs. per 1,000 ft.	Ampacity* 90°C
002	2	8	0.155	1.43	1790	159
001	1	7	0.170	1.64	2150	184
010	1/0	6	0.170	1.74	2550	211
020	2/0	5	0.190	1.89	3100	243
030	3/0	4	0.190	2.01	4050	279
040	4/0	3	0.220	2.17	4390	321
250	250	3	0.220	2.40	5950	355
350	350	1	0.220	2.68	7840	435
500	500	1	0.265	3.03	9730	536

* Tolerance = +/- 5% of nominal outside diameter.

¹ Ground Check Conductor – #16 AWG extensible strand for center ground check.

#14 AWG is the minimum size for non-center ground check wires

*Ampacity Ratings – based on continuous duty at 90°C conductor temperature

CORRECTION FACTORS

For ampacities for various ambient temperatures above or below 40°C.

Ambient Temp. Degrees C	Multiplying Correction Factors
10	1.26
20	1.18
30	1.10
40	1.00
50	0.90

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