

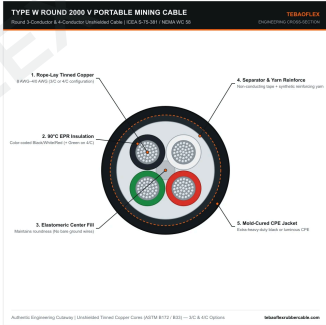
Type W Round 3/C & 4/C 2000 V Portable Mining Power Cable

Type W Round 2000 V portable power cable is engineered for heavy-duty surface and underground mining machinery, mobile dewatering pumps, blast-hole drills, portable crushers, conveyors, AC shuttle cars, and industrial generator/shore-power drops where unshielded insulated conductors are specified without bare interstitial ground wires. In 4-conductor builds, the fourth green-insulated full-size core frequently serves as a dedicated insulated equipment ground alongside three phase conductors.

1. CABLE CONSTRUCTION

1. Power Conductors (3× or 4×)	Flexible rope-lay stranded annealed tinned copper conductors (133 to 532 strands, 8 AWG to 4/0 AWG; up to 500 kcmil on request) per ASTM B172 and ASTM B33.
2. 90°C EPR Insulation	Heat-, moisture-, and ozone-resistant Ethylene Propylene Rubber (EPR): 60 mil (1.52 mm) wall for 8–2 AWG and 80 mil (2.03 mm) wall for 1–4/0 AWG.
3. Core Color Identification	3-Conductor: Black, White, Red 4-Conductor: Black, White, Red, Green (permanent color-coded insulation for rapid field phase/ground identification).
4. Cabled Core & Separator	Insulated conductors cabled with elastomeric fillers into a round compact core and wrapped with a non-conducting separator tape.
5. Synthetic Yarn Reinforcement	High-tenacity reinforcing fiber braid/wrap applied between inner and outer jacket layers to resist longitudinal stretching and rock-cut propagation.
6. Outer Jacket (CPE / Luminous)	Reinforced mold-cured extra-heavy-duty thermosetting Chlorinated Polyethylene (CPE) in black, custom safety colors, or luminous visibility compound.

Cross-Section Reference



Type W Round 2kV 4/C cutaway: 4 color-coded 90°C EPR power cores (Black, White, Red, Green) with rope-lay tinned copper strands, central filler, reinforcing yarn, and black CPE sheath.

2. ELECTRICAL & MECHANICAL CHARACTERISTICS

Rated Voltage	Up to 2,000 V AC / DC (covers both 600 V and 2,000 V heavy industrial & mining ratings)
Maximum Conductor Temperature	+90°C continuous normal operation +250°C short-circuit rating
Minimum Bending Radius	6 × overall cable diameter for mobile trailing and reel service
Outside Diameter Tolerances	±0.030 in (8–1 AWG) ±0.040 in (1/0–2/0 AWG) ±0.050 in (3/0–4/0 AWG)
Optional Jacket Compounds	Standard Black EHD CPE; optional Luminous CPE, CSP, PCP (Neoprene), or NBR
Standards & Flame Reference	ICEA S-75-381 / NEMA WC 58; ASTM B172 & ASTM B33; CAN/CSA-C22.2 No. 96; MSHA flame-resistant reference

3. DIMENSIONAL, GROUNDING & AMPACITY SPECIFICATIONS

Table 1: Type W Round 3-Conductor (3/C) — 2000 V Reinforced CPE (8 AWG to 4/0 AWG)

Construction	Area (mm²)	Conductor Strands	EPR Wall (mil / mm)	Nominal Round OD (in / mm)	Approx. Weight (lb/kft / kg/km)	Ampacity 40°C (A)
3 × 8 AWG	8.37	133	60 / 1.52	0.91 / 23.1	550 / 818	59
3 × 6 AWG	13.30	133	60 / 1.52	1.01 / 25.7	730 / 1,086	79
3 × 4 AWG	21.15	259	60 / 1.52	1.17 / 29.7	1,020 / 1,518	104
3 × 2 AWG	33.62	259	60 / 1.52	1.34 / 34.0	1,430 / 2,128	138
3 × 1 AWG	42.41	259	80 / 2.03	1.51 / 38.4	1,800 / 2,679	161
3 × 1/0 AWG	53.49	266	80 / 2.03	1.65 / 41.9	2,140 / 3,185	186
3 × 2/0 AWG	67.43	323	80 / 2.03	1.75 / 44.5	2,580 / 3,839	215
3 × 3/0 AWG	85.01	418	80 / 2.03	1.89 / 48.0	2,922 / 4,348	249
3 × 4/0 AWG	107.2	532	80 / 2.03	2.04 / 51.8	3,800 / 5,655	287

Table 2: Type W Round 4-Conductor (4/C) — 2000 V Reinforced CPE & Luminous Option (8 AWG to 4/0 AWG)

Construction	Area (mm²)	Conductor Strands	EPR Wall (mil / mm)	Nominal Round OD (in / mm)	Approx. Weight (lb/kft / kg/km)	Ampacity 40°C (A)
4 × 8 AWG	8.37	133	60 / 1.52	0.99 / 25.1	670 / 997	54
4 × 6 AWG	13.30	133	60 / 1.52	1.10 / 27.9	890 / 1,324	72
4 × 4 AWG	21.15	259	60 / 1.52	1.27 / 32.3	1,250 / 1,860	93
4 × 2 AWG	33.62	259	60 / 1.52	1.48 / 37.6	1,800 / 2,679	122
4 × 1 AWG	42.41	259	80 / 2.03	1.68 / 42.7	2,270 / 3,378	143
4 × 1/0 AWG	53.49	266	80 / 2.03	1.79 / 45.5	2,680 / 3,988	165
4 × 2/0 AWG	67.43	323	80 / 2.03	1.93 / 49.0	3,200 / 4,762	192
4 × 3/0 AWG	85.01	418	80 / 2.03	2.07 / 52.6	3,627 / 5,398	221
4 × 4/0 AWG	107.2	532	80 / 2.03	2.26 / 57.4	4,650 / 6,920	255

Single-Core & Larger Kcmil Sizes: Single-conductor Type W / DLO power leads (up to 1111.1 kcmil) and heavy 250–500 kcmil multi-core Type W Round constructions are also available; see [DLO 2kV Single-Core Power Cable](#) or request a custom datasheet.