

4/C CU 2000V Type G RHINOFLEX™ CPE Mining Cable 90°C. MSHA Approved

Flexible Copper conductors, Ethylene Propylene Rubber (EPR) insulation, Extra Heavy Duty Two Layer Chlorinated Polyethylene (CPE) Jacket with Optional Reflective Stripes



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor:** Tin coated, soft drawn, annealed, flexible, rope-lay stranded copper per ASTM B33/B172
- Separator Tape:** Non-conducting tape applied between the conductor and insulation to facilitate stripping
- Insulation:** Ethylene Propylene Rubber (EPR). Color coded black, white, red, orange
- Ground Conductors:** Four mylar taped, tin coated, soft drawn, annealed, rope stranded, flexible lay copper per ASTM B33/B172
- Filler:** Filler as needed
- Inner Jacket:** Black, mold cured, extra heavy-duty integral fill flame resistant, thermosetting Chlorinated Polyethylene (CPE)
- Reinforcement:** Reinforcing twine applied between the two jacket layers
- Outer Jacket:** Black, mold cured, extra heavy-duty, integral fill, flame resistant, thermosetting Chlorinated Polyethylene (CPE). Alternate jacket colors available
- Reflective Stripe:** Highly visible reflective stripe embedded into the outer jacket to increase safety and help prevent cable runover (optional, contact your sales representative for part number)

APPLICATIONS AND FEATURES:

RHINOFLEX™ Type G cable is a heavy-duty cable for use where flexibility and maximum protection is required. For use with all portable, temporary, and permanent power applications such as mobile or stationary mining equipment, shuttle cars, mobile drills, pumps, roof bolters, conveyors, and any portable power where equipment grounding is required. It is ideal for use anytime extra-durable, flexible cable is required. Also suitable for continuous submersion in water. Embossed print legend for easy cable identification.

SPECIFICATIONS:

- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- ASTM B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors
- ICEA S-75-381 Portable and Power Feeder Cables for Use in Mines

SAMPLE PRINT LEGEND:

SOUTHWIRE (R) RHINOTM BRAND CABLE # AWG 4/C TYPE G 90°C 2000V P-07-KA140024-MSHA



Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Diameter Over Insulation	Ground Size	Ground Strands	Approx. OD	Approx. Weight
	AWG/ Kcmil	No.	No.	inch	mil	inch	AWG	No.	inch	lb/1000ft
TBA	6	4	133	0.21	60	0.366	12	65	1.10	970
TBA	4	4	259	0.256	60	0.412	10	104	1.27	1410
TBA	3	4	259	0.285	60	0.441	10	104	1.34	1610
586521	2	4	308	0.32	60	0.476	8	168	1.48	2090
TBA	1	4	385	0.355	80	0.551	8	168	1.68	2550
TBA	1/0	4	273	0.385	80	0.581	7	49	1.79	3080
TBA	2/0	4	324	0.42	80	0.616	6	133	1.93	3760
TBA	3/0	4	418	0.506	80	0.702	5	133	2.07	4500
TBA	4/0	4	532	0.577	80	0.773	4	259	2.26	5540
TBA	250	4	608	0.61	95	0.836	3	259	2.66	7130
TBA	350	4	855	0.72	95	0.946	2	308	2.98	9360
TBA	300	4	735	0.737	95	0.963	3	259	2.84	7930
TBA	500	4	1221	0.9	95	1.126	1/0	273	3.40	13030

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size	Cond. Number	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance	Working Tension	Min Bending Radius	Allowable Ampacity In Air 90°C†
	AWG/ Kcmil	No.	Ω/1000ft	Ω/1000ft	MΩ/1000ft	lb	inch	Amp
TBA	6	4	0.423	0.529	0.037	239.000	6.6	72
TBA	4	4	0.268	0.335	0.035	380.000	7.6	93
TBA	3	4	0.213	0.266	0.034	480.000	8	106
586521	2	4	0.169	0.211	0.033	605.000	8.9	122
TBA	1	4	0.133	0.166	0.034	763.000	10.1	143
TBA	1/0	4	0.111	0.139	0.034	963.000	10.7	165
TBA	2/0	4	0.085	0.106	0.033	1213.000	11.6	192
TBA	3/0	4	0.067	0.084	0.032	1529.000	12.4	221
TBA	4/0	4	0.053	0.066	0.031	1929.000	13.6	255
TBA	250	4	0.046	0.058	0.032	2279.000	16	280
TBA	350	4	0.033	0.041	0.031	3190.000	17.9	335
TBA	300	4	0.037	0.046	0.030	2734.000	17	310
TBA	500	4	0.023	0.029	0.029	4557.000	20.4	395

† Ampacity based on ICEA S-75-381 Table H-1 and is for a single isolated cable in air operated with an open-circuited shield at an ambient temperature of 40°C and a conductor temperature of 90°C

