

CU 600V Remote Power & Drill Cord Cable 90°C. MSHA Approved

Flexible Copper conductors, Ethylene Propylene Diene Monomer (EPDM) insulation, Extra Heavy Duty Two Layer Heavy-Duty Neoprene Jacket with Optional Reflective Stripes



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Soft drawn, annealed, flexible, rope-lay stranded, uncoated copper per ASTM B3/B172.
2. **Separator Tape:** Non-conducting tape applied as needed between the conductor and insulation to facilitate stripping
3. **Insulation:** Ethylene Propylene Rubber (EPR). Color coded: 3-Conductor: Black, White, Green; 4 Conductor: Black, White, Red, Green; 5-Conductor: Black, White, Red, Green, Orange; 6-Conductor: Black, White, Red, Green, Orange, Blue
4. **Filler:** Fillers as needed
5. **Inner Jacket:** Black, heavy-duty integral fill flame resistant, thermosetting Neoprene
6. **Reinforcement:** Reinforcing twine applied between the two jacket layers.
7. **Outer Jacket:** Black, heavy-duty, integral fill, flame resistant, thermosetting Neoprene. Alternate jacket colors available.

APPLICATIONS AND FEATURES:

Southwire's Remote Power and Drill cord cable is a heavy-duty cable for use where limited flexing and rugged use are required. For use in stationary heavy duty pumps or long-wall lighting application. Designed for long service life in wet or dry locations in underground mines. The cable is sunlight resistant, crush resistant, and abrasion resistant. 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:

AWG #/C REMOTE CONTROL & DRILL CORD 600V P-07-KA120024-MSHA --- RoHS



Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Diameter Over Insulation	Approx. OD	Approx. Weight
	AWG/ Kcmil	No.	No.	inch	mil	inch	inch	lb/1000ft
569952	14	3	41	0.083	45	0.209	0.67	295
571415	14	4	41	0.083	45	0.209	0.71	345
569951	14	5	41	0.083	45	0.209	0.78	420
578829	12	3	65	0.104	45	0.23	0.72	440
571402	12	5	65	0.104	45	0.23	0.81	450
571731	12	6	65	0.104	45	0.23	0.89	510
578830	10	3	104	0.131	45	0.257	0.8	360
571710	10	5	104	0.131	45	0.257	0.9	550
583920	8	5	168	0.166	60	0.322	1.09	690

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	Working Tension	Min Bending Radius	Allowable Ampacity In Air 90°C†
	AWG/ Kcmil	No.	Ω/1000ft	Ω/1000ft	lb	inch	Amp
569952	14	3	2.64	3.299	28	4	15
571415	14	4	2.64	3.299	37	4	15
569951	14	5	2.64	3.299	47	5	15
578829	12	3	1.68	2.093	45	4	20
571402	12	5	1.68	2.093	74	5	20
571731	12	6	1.68	2.093	89	5	20
578830	10	3	1.06	1.319	71	5	25
571710	10	5	1.06	1.319	118	5	25
583920	8	5	0.68	0.848	188	7	35

† Ampacity based on Tables 400.5(A)(1) of the National Electrical Code® and is for a single isolated cable in air operated with an open-circuited shield at an ambient temperature of 30°C and a conductor temperature of 90°C and three current carrying conductors

