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

Flexible Copper conductors, Ethylene Propylene Diene Monimor (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	Inner Jacket Thickness	Jacket Thickness	Approx. OD	Approx. Weight
	AWG/ Kcmil	No.	No.	inch	mil	inch	mil	mil	inch	lb/1000ft
569952	14	3	41	0.073	45	0.163	60	90	0.670	241
571415	14	4	41	0.073	45	0.167	65	85	0.710	278
569951	14	5	41	0.073	45	0.163	65	90	0.770	329
578829	12	3	65	0.094	45	0.184	60	100	0.720	302
571402	12	5	65	0.094	45	0.184	65	100	0.830	398
571731	12	6	65	0.094	45	0.184	65	100	0.890	458
578830	10	3	104	0.117	45	0.206	60	115	0.800	379
571710	10	5	104	0.117	45	0.205	65	95	0.900	492
583920	8	5	71	0.153	60	0.275	65	95	1.090	716

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

Cond. Size	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance	Working Tension	Min Bending Radius	Allowable Ampacity In Air 90°C
AWG/ Kcmil	Ω/1000ft	Ω/1000ft	Ω/1000ft	lb	inch	Amp
14	2.814	3.555	0.040	28	5.3	15
14	2.814	3.555	0.041	28	5.6	15
14	2.814	3.555	0.040	28	6.1	15
12	1.774	2.241	0.037	44	5.7	20
12	1.774	2.241	0.037	44	6.6	20
12	1.774	2.241	0.037	44	7.1	20
10	1.111	1.404	0.035	70	6.4	25
10	1.111	1.404	0.035	70	7.2	25
8	0.715	0.903	0.035	112	8.7	35

* Inductive impedance is based on non-ferrous conduit with one diameter spacing.