1/C CU EPR Medium Voltage Non-Shielded Jumper & Switchgear Cable

Single Conductor Flexible Conductor with an EPR Insulation Non-Shielded Jumper Cable

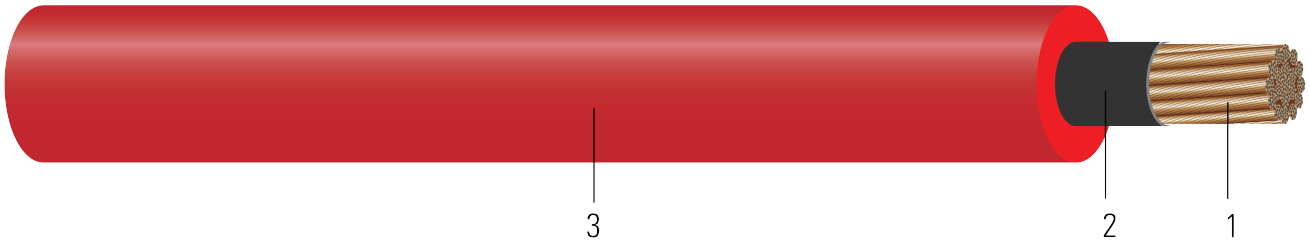


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Flexible rope lay stranded annealed bare or tinned copper
2. **Conductor Shield:** Nylon semi-conducting tape, helically applied
3. **Insulation:** Heat, moisture, and ozone resistant Ethylene Propylene Rubber(EPR)

APPLICATIONS AND FEATURES:

Southwire's medium voltage non-shielded jumper and switchgear cable is a flexible power cable that is intended for use in substations installed on insulators and inside switchgear isolated from ground and where a non-shielded flexible cable is desired. These cables are capable of operating continuously at a conductor temperature not in excess of 90°C.

This cable is rated up to 40KV and is not UL listed. See Table 2 for installation guidelines

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

SAMPLE PRINT LEGEND:

SOUTHWIRE® XXX SIZE NON-SHIELDED FLEXIBLE JUMPER AND SWITCHGEAR CABLE NON-UL

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Strand Count	Diameter Over Conductor	Insul. Thickness	Approx. OD	Copper Weight	Approx. Weight
	AWG/Kcmil	No. of Strands	inch	mil	inch	lb/1000ft	lb/1000ft
569424	2	168	0.290	210	0.753	169	177
587529	2	259	0.315	200	0.770	169	424
569423	1/0	259	0.379	210	0.840	320	548
569425	2/0	324	0.400	220	0.883	406	674
569487	4/0	532	0.530	210	0.979	651	960
674322	4/0	532	0.530	360	1.280	638	1244
569427	350	893	0.670	230	1.160	1084	1475
569428	500	1221	0.858	230	1.350	1514	1970

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item

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† Ampacities based upon 2023 NEC Table 310.16. Also, see NEC sections 310.15 and 110.14(C) for additional requirements.

Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity At 60°C	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
	AWG/ Kcmil	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
569424	2	530	0.172	0.207	0.045	95	115	130
587529	2	530	0.172	0.207	0.045	95	115	130
569423	1/0	844	0.109	0.131	0.044	125	150	170
569425	2/0	1064	0.087	0.104	0.043	145	175	195
569487	4/0	1692	0.055	0.067	0.041	195	230	260
674322	4/0	1692	0.055	0.067	0.041	195	230	260
569427	350	2800	0.033	0.042	0.040	259	310	350
569428	500	4000	0.023	0.031	0.039	320	380	430