



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

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

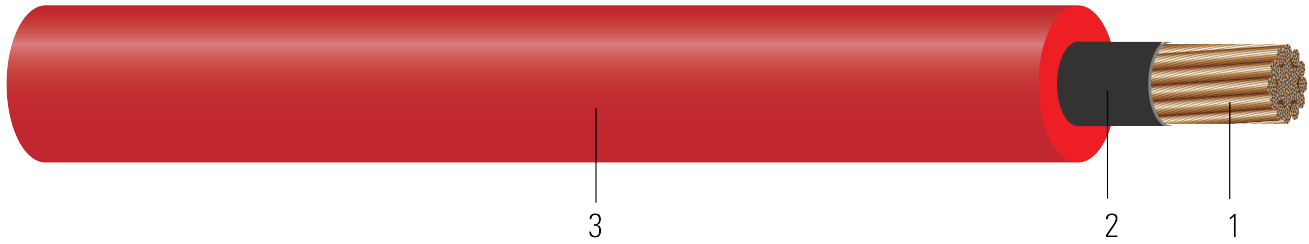


Image not to scale. See Table 1 for dimensions.

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

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item





† 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

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

