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

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

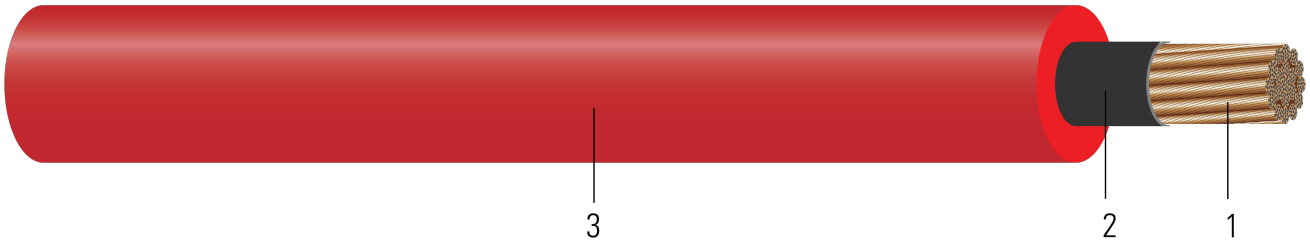

Image not to scale. See Table 1 for dimensions.

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	Color	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Approx. OD	Copper Weight	Overall Weight
	AWG/Kcmil		inch		mils	inch	lbs/1000ft	lbs/1000ft
569424	2	RD	0.290	168	210	0.753	169	177
587529	2	OE	0.315	259	200	0.770	169	424
569423	1/0	RD	0.379	259	210	0.840	320	548
569425	2/0	RD	0.400	324	220	0.883	406	674
569487	4/0	RD	0.530	532	210	0.979	651	960
674322	4/0	OE	0.530	532	360	1.280	638	1244
569427	350	RD	0.670	893	230	1.160	1084	1475
569428	500	RD	0.858	1221	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

Cond. Size	Max Pull Tension	DC Resistance at 25°C	AC Resistance at 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity Raceway 75°C	Allowable Ampacity Raceway 90°C
AWG/ Kcmil	Lbs	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
2	530	0.172	0.207	0.045	115	130
2	530	0.172	0.207	0.045	115	130
1/0	844	0.109	0.131	0.044	150	170
2/0	1064	0.087	0.104	0.043	175	195
4/0	1692	0.055	0.067	0.041	230	260
4/0	1692	0.055	0.067	0.041	230	260
350	2800	0.033	0.042	0.040	310	350
500	4000	0.023	0.031	0.039	380	430