



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:

- Conductor:** Flexible rope lay stranded annealed bare or tinned copper
- Conductor Shield:** Nylon semi-conducting tape, helically applied
- 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-SHIELED FLEXIBLE JUMPER AND SWITCHGEAR CABLE NON-UL

Table 1 – Weights and Measurements

Stock Number	Cond. Size AWG/Kcmil	Color	Diameter Over Conductor inch	Conductor Stranding	Insulation Thickness mils	Approx. OD inch	Copper Weight lbs/1000ft	Overall Weight lbs/1000ft
569424	2	RD	0.290	168	210	0.753	169	177

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 AWG/ Kcmil	Max Pull Tension Lbs	DC Resistance at 25°C Ω/1000ft	AC Resistance at 75°C Ω/1000ft	Inductive Reactance @ 60Hz Ω/1000ft	Allowable Ampacity Raceway 75°C Amp	Allowable Ampacity Raceway 90°C Amp
2	530	0.172	0.207	0.045	115	130

