

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

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

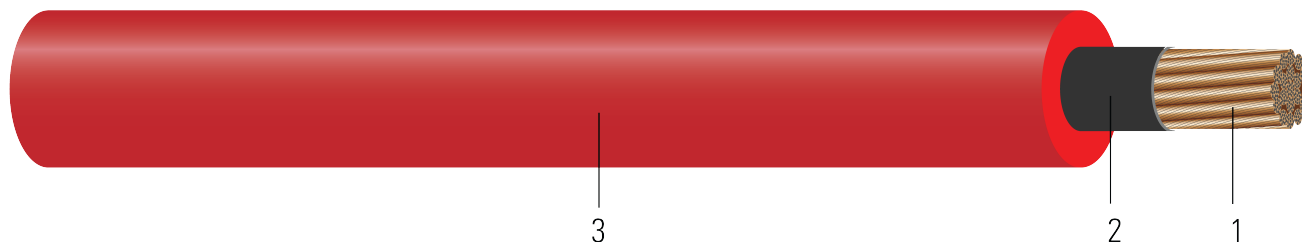


Image not to scale. See Table 1 for dimensions.

## 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                        |

