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

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

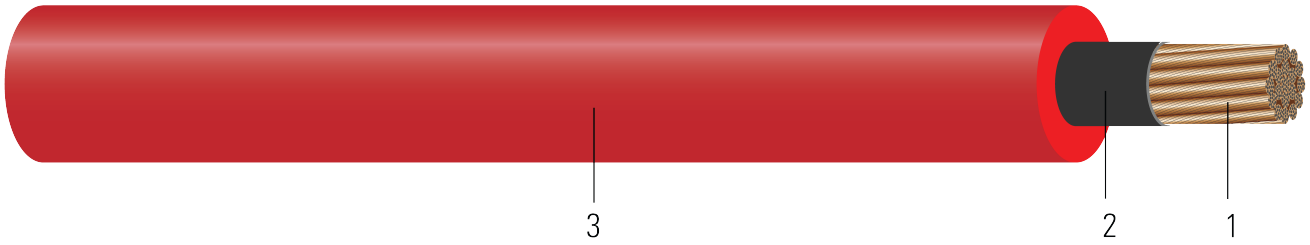


Image not to scale. See Table 1 for dimensions.

## 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 |