

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

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

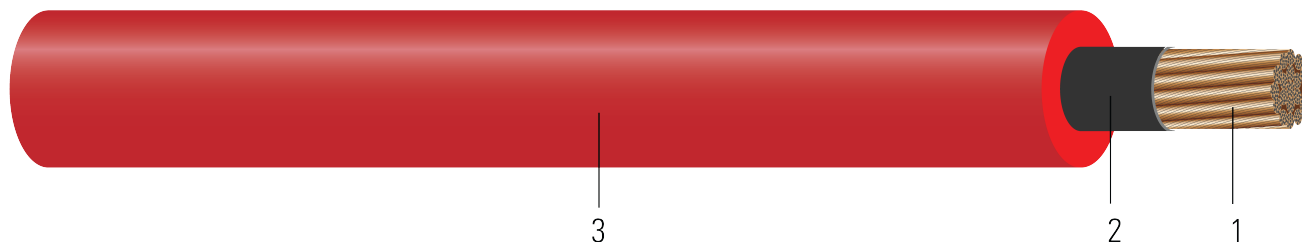


Image not to scale. See Table 1 for dimensions.

## 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-SHIELDED FLEXIBLE JUMPER AND SWITCHGEAR CABLE NON-UL

**Table 1 – Weights and Measurements**

| Stock Number | Cond. Size | Cond. Number | 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      |
| 569487       | 4/0        | 1            | 532            | 0.530                   | 210              | 0.979      | 651           | 960            |

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**

| Stock Number | Cond. Size    | Cond. Number | 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/<br>Kcmil |              | lb               | Ω/1000ft             | Ω/1000ft             | Ω/1000ft                   | Amp                        | Amp                        | Amp                        |
| 569487       | 4/0           | 1            | 1692             | 0.055                | 0.067                | 0.041                      | 195                        | 230                        | 260                        |

