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

Single Conductor Tinned Copper EPDM Insulation with a CPE Jacket Non-Shielded Jumper Cable

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Tinned copper class B or C
2. **Tape:** Binder tape for ease of insulation removal
3. **Insulation:** Heat, moisture, and ozone resistant Ethylene Propylene Diene Monomer (EPDM)
4. **Jacket:** Thermoplastic Chlorinated Polyethylene CPE jacket

APPLICATIONS AND FEATURES:

Southwire's medium voltage non-shielded cable is intended for use in substations installed on insulators and inside switchgear isolated from ground and where a non-shielded cable is desired. These cables are capable of operating continuously at a conductor temperature not in excess of 90°C. See Table 2 for installation guidelines.

This cable is rated up to 40KV and is not UL listed. See Table 2 for Installation Guidelines

SPECIFICATIONS:

- ASTM B3 Standard Specification for Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire

SAMPLE PRINT LEGEND:

SOUTHWIRE® XXX SIZE STRANDED NON-SHIELDED 90°C DRY EPDM/CPE SEQUENTIAL MARKS NON-UL

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight
	AWG/Kcmil	No.	No.	inch	mil	mil	inch	lb/1000ft
579783	2	1	19	0.296	175	80	0.828	486
579782	4/0	1	19	0.512	175	80	1.044	1026
585796	350	1	37	0.661	175	80	1.193	1557

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item

Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size	Cond. Number	DC Resistance @ 25°C	Min Bending Radius	Allowable Ampacity In Air 90°C†
	AWG/Kcmil	No.	Ω/1000ft	inch	Amp
579783	2	1	0.166	6.6	195
579782	4/0	1	0.051	8.3	400
585796	350	1	0.032	9.5	550