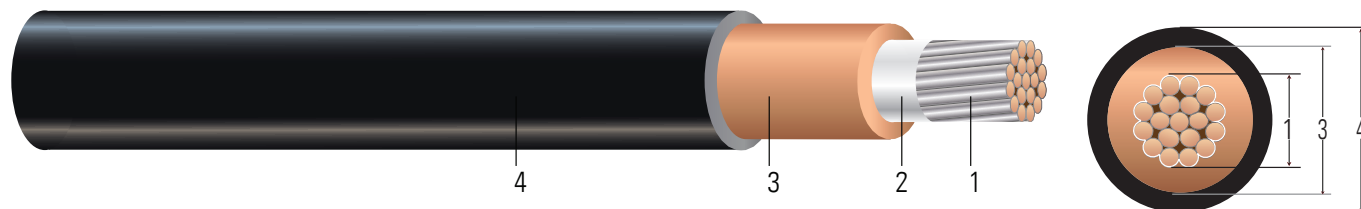


Medium Voltage Non-Shielded Jumper & Switchgear Cable (Non-UL)

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



Images not to scale. See Table 1 for Dimensions

CONSTRUCTION:

1. **Conductors:** Tinned copper class B or C
2. **Tape:** Binder tape for ease of insulation removal.
3. **Insulation:** Heat, moisture, and ozone resistant Ethylene Propylene Rubber (EPR)
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 - Soft or Annealed Copper Wire
- ASTM B8 - Concentric-Lay-Stranded Copper Conductors
- ASTM B33 - Tinned Soft or Annealed Copper Wire for Electrical Purposes.

SAMPLE PRINT LEGEND:

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



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Table 1 Medium Voltage Non-Shielded Cable

Stock Number	Conductor			Thickness		Approx. OD (4)	Approx Weight	Bend Radius	DC Resistance at 25°C	Ampacity	
	Size	Strand	Diam (1)	Insulation	Jacket					Amps	
	AWG		inches			mils	mils	inches	lbs./1000 FT	inches	Ω/MFT
579783	2	19	0.296	175	80	0.828	486	6.6	0.166	195	130
579782	4/0	19	0.512	175	80	1.044	1026	8.3	0.051	400	260
585796	350	37	0.661	175	80	1.193	1557	9.5	0.0320	550	350

All dimensions are nominal and subject to normal manufacturing tolerances

Table 2 - Cable Installation Guidelines

Operating Voltage	Switchgear Installation Spacing		Substation Installation Spacing	
	$\phi - \phi$	$\phi - \text{Ground}$	$\phi - \phi$	$\phi - \text{Ground}$
	inches	inches	inches	inches
5000 Volts	2.0	1.0	7.0	3.0
15,000 Volts	4.0	2.5	12.0	5.0
40,000 Volts	8.0	4.5	15.0	9.5

The above guidelines were developed by Southwire at their Cofer R&D Center. No industry Standards were used in developing this table. The above values are for informational use only.

