

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

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



Images not to scale. See Table 1 for Dimensions

CONSTRUCTION:

1. **Conductors:** 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). Red or Orange Color

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. 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 B-172 Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Members for Electrical Conductors
- ASTM B33 - Tinned Soft or Annealed Copper
- File Listing ES16748

SAMPLE PRINT LEGEND:

SOUTHWIRE® XXX SIZE NON-SHIELDED FLEXIBLE JUMPER AND SWITCHGEAR CABLE NON-UL



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Table 1 – Medium Voltage Non-Shielded Jumper and Switchgear Cable

Stock Number	Conductor			Insulation Thickness	Approx. OD (3)	Approximate Weight	Bend Radius	DC Resistance at 25°C	Ampacity Amps	
	Cond. Size	Strands	Diameter (1)						Open Air	Enclosure
			inches							
TBD	4	259	0.256	220	0.700	400	2.81	0.263	150	95
569424	2	168	0.310	220	0.753	430	3.01	0.166	195	130
587529‡	2	259	0.315	200	0.769	423	3.01	0.166	195	130
TBD	1	385	0.355	220	0.800	500	3.20	0.131	225	145
569423	1/0	259	0.427	220	0.851	560	3.40	0.105	260	170
569425	2/0	324	0.474	220	0.883	645	3.53	0.0834	300	195
569487	4/0	532	0.537	220	0.979	940	3.92	0.0525	400	260
569427	350	855	0.670	220	1.122	1410	5.61	0.0320	550	350
569428	500	1221	0.858	220	1.310	1935	6.55	0.0224	685	430

All dimensions are nominal and subject to normal manufacturing tolerances

‡ Tinned Cu. Orange Color

Table 2 – Cable Installation Guidelines

Operating Voltage	Switchgear Installation Spacing		Substation Installation Spacing	
	φ - φ	φ - Ground	φ - φ	φ - 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.

