1/C CU 600V XLPE XHHW-2 PVC Power Cable

Power Cable 600Volt Single Conductor Copper, Cross Linked Polyethylene (XLPE) insulation XHHW-2 Polyvinyl Chloride (PVC) Jacket

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2. **Insulation:** Cross Linked Polyethylene (XLPE) Type XHHW-2
3. **Overall Jacket:** Polyvinyl Chloride (PVC) Jacket

APPLICATIONS AND FEATURES:

Southwire's 600 Volt power cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, aerial supported by a messenger, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation in wet and dry locations, 130°C for emergency overload, and 250°C for short circuit conditions. For uses in Class I, II, and III, Division 2 hazardous locations per NEC Article 501 and 502. Rated for 1000 lbs./FT maximum sidewall pressure.

SPECIFICATIONS:

- ASTM B3 Standard Specification for Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1685 Vertical-Tray Fire Propagation and Smoke Release Test (1/0 and Larger)
- ICEA S-58-679 Control Cable Conductor Identification Method 4
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- CT USE Sizes 1/0 AWG and Larger

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE MASTER-DESIGN {UL} XXX KCMIL CU TYPE XHHW-2/PVC JKT XX MILS XLP XX MILS PVC SUNLIGHT RESISTANT FOR CT USE 600V

Tabla 1-pesos y medidas

Número de Stock	Tamaño de Cond.	Diámetro sobre el Conductor	Insul. Espesor	Diámetro sobre el aislamiento	Espesor de la cubierta	Aprox. OD	Peso cobre	Peso Aprox.
	AWG/Kcmil	pulg	mil	pulg	mil	pulg	lb/1000ft	lb/1000ft
TBA	1/0	0.361	55	0.561	45	0.561	325	400
890181	2/0	0.405	55	0.605	45	0.628	410	492
TBA	3/0	0.456	55	0.656	45	0.656	518	609
TBA	4/0	0.512	55	0.712	45	0.712	653	753
TBA	250	0.558	65	0.818	65	0.818	771	917
TBA	300	0.61	65	0.87	65	0.87	926	1083
890179	350	0.661	65	0.921	65	0.931	1081	1249
890022	500	0.789	65	1.049	65	1.056	1544	1739
TBA	600	0.865	80	1.155	65	1.155	1853	2092
890024	750	0.968	80	1.258	65	1.209	2316	2580
TBA	1000	1.117	80	1.407	65	1.407	3088	3387

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

† Ampacities are based on Table 310.16 of the NEC 2020 Edition. Ampacities of insulated conductors rated up to and including 2000 Volts with not more than three current-carrying conductors in raceway, cable or direct buried based on ambient temperature of 30ºC (86ºF).

Tabla 2 – datos eléctricos y de ingeniería

Número de Stock	Tamaño de Cond.	radio de flexión	Tensión de tracción máxima	Resistencia @ 25° C	CA resistencia @ 90° C	reactancia inductiva @ 60Hz	Capacidad de corriente permisible a 60° C†	Capacidad de corriente permisible a 75° C†	Capacidad de corriente permisible a 90° C†
	AWG/ Kcmil	pulg	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
TBA	1/0	3.9	844	0.102	0.122	0.0317	125	150	170
890181	2/0	4.3	1064	0.081	0.097	0.0317	145	175	195
TBA	3/0	4.5	1342	0.064	0.078	0.0300	165	200	225
TBA	4/0	4.9	1692	0.051	0.062	0.0292	195	230	260
TBA	250	5.7	2000	0.043	0.053	0.0304	215	255	290
TBA	300	6.0	2400	0.036	0.045	0.0298	240	285	320
890179	350	6.5	2800	0.031	0.039	0.0295	260	310	350
890022	500	7.3	4000	0.022	0.029	0.0283	320	380	430
TBA	600	8.0	4800	0.018	0.025	0.0283	350	420	475
890024	750	8.4	6000	0.014	0.022	0.0268	400	475	535
TBA	1000	9.8	8000	0.011	0.018	0.0269	455	545	615

† Ampacities are based on Table 310.16 of the NEC 2020 Edition. Ampacities of insulated conductors rated up to and including 2000 Volts with not more than three current-carrying conductors in raceway, cable or direct buried based on ambient temperature of 30ºC (86ºF).