

Switchboard SIS cable

600 Volt, 90°C, Flame-Retardant XLPE Insulation UL Listed SIS/XHHW



Image not to scale. See Table 1 for Dimensions

CONSTRUCTION:

1. **Conductors:** Stranded tinned copper
2. **Insulation:** Flame-Retardant Cross-Linked Polyethylene (FR-XLPE)
Color options: Black, White, Red, Orange, Yellow, Green, Blue, Brown, Gray, Violet, Green/Yellow

APPLICATIONS AND FEATURES:

Southwire SIS wire used in utility substations switchboards in Class 1E low voltage applications, used in operation and interconnection of protective devices where optimum performance is required. The cable is rated -40°C to 90°C Dry, 90°C

SPECIFICATIONS:

- ASTM B-33
- UL 44 Type XHHW-2
- CSA C22.2 No. 38 RWU90, SIS
- CSA RW90, PRI, 600V (8 AWG & Larger)
- Flame Tests: CSA FT1, FT2, VW-1, IEEE 383, FT4/IEEE 1202
- RoHS-2 (European Directive 2011/65/EU)

SAMPLE PRINT LEGEND: 14 AWG - 10 AWG

XX AWG (XXmm²) E137925 (UL) XHHW-2 OR SIS 90C 600V VW-1 -- 156016 CSA SIS 90C 600V -40C FT1 FT2 VW-1

SAMPLE PRINT LEGEND: 8 AWG - 4/0 AWG

XX AWG (XXmm²) E137925 (UL) XHHW-2 OR SIS 90C 600V VW-1 -- 156016 CSA RW90 90C DRY/90C WET 600V PRI -40C FT1 FT4 OR SIS 90C 600V -40C FT1 FT2 VW-1

PACKAGING

This section is optional



Southwire Company, LLC | One Southwire Drive, Carrollton, GA 30119 | www.southwire.com

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TABLE 1 - WEIGHTS & MEASUREMENTS

Stock Code	Cond. Size	No. of Cond.	No. of Strands	Insulation Thickness (Inchs)	Insulation Thickness (mm)	Nominal OD (Inchs)	Nominal OD (mm)	Nominal Weight (Lbs/Mft)	Nominal Weight (kg/km)
F14453	14	1	41/30	0.03	0.76	0.13	3.23	19	28
F12218	12	1	65/30	0.03	0.76	0.15	3.68	25	37
18810	10	1	104/30	0.03	0.76	0.17	4.22	41	61
18808	8	1	133/29	0.05	1.14	0.25	6.25	69	103
18806	6	1	133/27	0.05	1.14	0.29	7.47	105	156
18804	4	1	133/0177	0.05	1.14	0.33	8.28	159	237
18802	2	1	133/23	0.05	1.14	0.39	10.01	243	362
18821	1/0	1	1064/30	0.06	1.40	0.48	12.12	563	838
18822	2/0	1	1330/30	0.06	1.40	0.52	13.13	717	1067
18823	3/0	1	1672/30	0.06	1.40	0.57	14.50	902	1342
18824	4/0	1	2109/30	0.06	1.40	0.65	16.61	1121	1668

All dimensions are nominal and subject to nominal manufacturing tolerances

TABLE 2 - ELECTRICAL

Stock Code	Nom. DCR $\Omega/1M'$
F14453	2.82
F12218	1.77
18810	1.11
18808	0.41
18806	0.41
18804	0.25
18802	0.169
18821	0.1
18822	0.08
18823	0.07
18824	0.05

Ampacity values based on NEC Table 310.17 (8 AWG thru 4/0) 90°C. Larger sizes based on single conductor in free air, 30°C ambient and 90°C conductor temperature and CEC Table 1 (RW90) 90°C.