



Southwire[®]
WE DELIVER POWER...RESPONSIBLY*

PRODUCT DATA SHEET

Controlled Document - Engineering Drive

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COPPERFIELD[®] SIS

Construction Parameters:

CONDUCTOR: 14 AWG - 4/0 AWG stranded tinned copper
INSULATION: Flame-Retardant Cross-Linked Polyethylene (FR-XLPE)
COLORS: Black, White, Red, Orange, Yellow, Green, Blue, Brown, Gray, Violet, Green/Yellow
PRINT LEGENDS: XX AWG (X.XXmm²) E137925 (PLANT ID CODE) (UL) XHHW-2 OR SIS 90C 600V VW-1 --
14 AWG - 10 AWG 156016 CSA SIS 90C 600V -40C FT1 FT2 VW-1

PRINT LEGENDS: XX AWG (XX.Xmm²) E137925 (UL) XHHW-2 OR SIS 90C 600V VW-1 -- 156016 CSA
8 AWG - 4/0 AWG RW90 90C DRY/90C WET 600V PRI -40C FT1 FT4 OR SIS 90C 600V -40C FT1 FT2 VW-1

PHYSICAL PROPERTIES:

TEMPERATURE RANGE: -40°C to 90°C Dry, 90C Wet

ELECTRICAL PROPERTIES:

VOLTAGE RATING: 600V rms, Max

Industry Approvals:

- o ASTM B-33
- o UL 44 Type XHHW-2
- o CSA C22.2 No. 38 RWU90, SIS
- o CSA RW90, PRI, 600V (8 AWG & Larger)
- o Flame Tests: CSA FT1, FT2, VW-1, IEEE 383, FT4/IEEE 1202
- o EPA 40 CFR, Part 26, Subpart C, heavy metals per Table 1, TCLP method

Part Number	AWG	No. Cond.	Stranding	Insulation Wall, Nom.		O.D., Nom.		Net Weight		Nom. DCR Ω/1M'
				Inches	mm	Inches	mm	Lb./kft.	kg/km	
F14453	14	1	41/30	0.030	0.76	0.127	3.23	19	28	2.82
F12218	12	1	65/30	0.030	0.76	0.145	3.68	25	37	1.77
18810	10	1	104/30	0.030	0.76	0.166	4.22	41	61	1.11
18808	8	1	133/29	0.045	1.14	0.246	6.25	69	103	0.41
18806	6	1	133/27	0.045	1.14	0.294	7.47	105	156	0.41
18804	4	1	133/.0177	0.045	1.14	0.326	8.28	159	237	0.25
18802	2	1	133/23	0.045	1.14	0.394	10.01	243	362	0.17
18821	1/0	1	1064/30	0.055	1.40	0.477	12.12	563	838	0.10
18822	2/0	1	1330/30	0.055	1.40	0.517	13.13	717	1067	0.08
18823	3/0	1	1672/30	0.055	1.40	0.571	14.50	902	1342	0.07
18824	4/0	1	2109/30	0.055	1.40	0.654	16.61	1121	1668	0.05

Note: All dimensions & weights are nominal subject to industry standards and tolerances unless otherwise noted.

* 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.

† Ampacity values based on CEC Table 1 (RW90) 90°C.

This product complies with European Directive 2011/65/EU (RoHS-2)

The customer will accept all factory lengths and +/- 10 percent of total order requested.

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