



FOR TESTING PURPOSES ONLY: Southwire Electric Vehicle EVE/EVJE and EV/EVJ Cables

90° or 105°C Dry/60°C Wet. 300, 600/1000 Volts. Class K, Bare Copper Conductors. TPE or EPDM Insulation and TPE or CPE oil, sunlight and flame resistant jacket.

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class K, Flexible stranded bare copper per ASTM B3 and ASTM B174
2. **Insulation:** Thermoplastic Elastomer (TPE) with Optional Nylon Covering or Ethylene Propylene Diene Monomer (EPDM)
3. **Filler:** Paper or Polypropylene filler as needed
4. **Binder:** Paper or Talc as needed
5. **Overall Jacket:** Black; Thermoplastic Elastomer (TPE) or Thermoset Chlorinated Polyethylene (CPE)

APPLICATIONS AND FEATURES:

EV Charging Cables, designed for residential or commercial charging applications. Flexible construction, cabled with fillers, with wet rated, oil resistant, crush and impact resistant, low temperature materials. These cables meet Underwriters Laboratories and the Canadian Standard Association requirements as well as the National Electrical Code articles 400 (Flexible Cords & Flexible Cables) and 625 (Electric Vehicle Power Transfer System).

Voltage: 300V EVJE, EVJ; 600V or 1000V EVE or EV.

Temperature Range: -40°C to 105°C Dry, 60°C Wet

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B174 Standard Specification for Bunch-Stranded Copper
- UL 2263 Safety Electric Vehicle Cable
- RoHS-3 Complies with Latest Directive

SAMPLE PRINT LEGEND:

SOUTHWIRE® 3/C XX AWG (X.XXmm²) & 1/C XX AWG (X.XXmm²) EVE E312819 c(UL)us 1000V 105C DRY 60C WET -- EVT(TPE) 1000V 105C DRY 60C WET FT2 WATER RESISTANT -- FOR USE WITH ELECTRIC VEHICLES





Types EVJE or EVJ, 300V

Stock Code	Cond. Size	2/ Cond. Plus Grnd	No. of Strands	Insulation Average Thickness	Insulation Average Thickness	Jacket Average Thickness	Jacket Average Thickness	Nominal OD	Nominal OD	N
	(AWG)			(inches)	(mm)	(inches)	(mm)	(inches)††	(mm)	N
EVJE14	14	3	41	0.03	0.76	0.03	0.76	0.374	9.5	
	18	1	16	0.03	0.76					
EVJE12	12	3	65	0.03	0.76	0.045	1.14	0.463	11.76	
	18	1	16	0.03	0.76					
EVJ14	14	3	41	0.03	0.76	0.03	0.76	0.374	9.5	
	18	1	16	0.03	0.76					
EVJ12	12	3	65	0.03	0.76	0.045	1.14	0.463	11.76	
	18	1	16	0.03	0.76					





Types EVE or EV, 600V or 1000V

Stock Code	Cond. Size	2/ Cond. Plus Grnd	No. of Strands	Insulation Average Thickness	Insulation Average Thickness	Jacket Average Thickness	Jacket Average Thickness	Nominal OD	Nominal OD	Nominal OD
	(AWG)			(inches)	(mm)	(inches)	(mm)	(inches)††	(mm)	(mm)
EVE14	14	3	41	0.045	1.14	0.08	2.03	0.549	13.94	13.94
	18	1	16	0.03	0.76					
EVE12	12	3	65	0.045	1.14	0.08	2.03	0.579	14.71	14.71
	18	1	16	0.03	0.76					
EVE10	10	3	104	0.045	1.14	0.08	2.03	0.614	15.6	15.6
	18	1	16	0.03	0.76					
EVE08	8	3	168	0.06	1.52	0.125	3.18	0.858	21.79	21.79
	18	1	16	0.03	0.76					
EVE06	6	3	266	0.06	1.52	0.125	3.18	0.927	23.55	23.55
	18	1	16	0.03	0.76					
EVE04	4	3	420	0.06	1.52	0.14	3.56	1.106	28.09	28.09
	18	1	16	0.03	0.76					
EVE02	2	3	665	0.06	1.52	0.14	3.56	1.205	30.61	30.61
	18	1	16	0.03	0.76					
EV14	14	3	41	0.045	1.14	0.08	2.03	0.549	13.94	13.94
	18	1	16	0.03	0.76					
EV12	12	3	65	0.045	1.14	0.08	2.03	0.579	14.71	14.71
	18	1	16	0.03	0.76					
EV10	10	3	104	0.045	1.14	0.08	2.03	0.614	15.6	15.6
	18	1	16	0.03	0.76					
EV08	8	3	168	0.06	1.52	0.125	3.18	0.858	21.79	21.79





Stock Code	Cond. Size	2/ Cond. Plus Grnd	No. of Strands	Insulation Average Thickness	Insulation Average Thickness	Jacket Average Thickness	Jacket Average Thickness	Nominal OD	Nominal OD	No
	(AWG)			(inches)	(mm)	(inches)	(mm)	(inches)††	(mm)	(L M
	18	1	16	0.03	0.76					
EV06	6	3	266	0.06	1.52	0.125	3.18	0.927	23.55	6
	18	1	16	0.03	0.76					
EV04	4	3	420	0.06	1.52	0.14	3.56	1.106	28.09	8
	18	1	16	0.03	0.76					
EV02	2	3	665	0.06	1.52	0.14	3.56	1.205	30.61	1
	18	1	16	0.03	0.76					

Footnotes

Additional sizes & Custom Designs are available.
All dimensions are nominal and subject to normal manufacturing tolerances
† Ampacities are based on Table 400.5(A)(1) of the NEC, 2020 Edition. Ampacities of insulated conductors based on ambient temperature of 30°C (86°F)
†† Cable OD's and Weights are subject to change.





Standard EV Cables Options

Connector	Stock Code	Ampacity	Cond. Size	Cond Num.	Signal Wire Size	Signal Wire Num.	Insul. Mat.	Jacket Mat.	Rating	Nom. OD	
		Amp	AWG	#	AWG	#				inch	
Level 1 15-20 AMPS											
Type 1 Type 2 CCS1 CCS2 NACS	EVE1A01N0108	15	14	3	18	1	TPE	TPE	EVE / EVJE	0.556	
	EVE1A01N0208	20	12							0.590	
Level 2 20-80 AMPS											
Type 1 Type 2 CCS1 CCS2 NACS	EVE2A02N0108	25	12	3	18	2	TPE	TPE	EVE / EVJE	0.600	
	EVE2A02N0208	30	10						EVE	0.636	
	EVE2A02N0308	55	8							0.845	
	EVE2A02N0408	80	6							0.925	
Level 3 (DC Fast Charge) 80-400 AMPS											
CCS1 CCS2 NACS	EVE3A06N0108	96	4	3	18	6	TPE	TPE	EVE	1.011	
	EVE3A06N0208	125	2							1.212	
	EVE3A06Y0108	200	1	5						1.785	
	EVE3A06Y0208	275	2/0							2.016	
EVC											
Type 1 Type 2 CCS1 CCS2 NACS	EVC2A02N0108	48	8	3	18	2	TPE- Nylon	TPE	EVC	0.626	
	EVC2A02N0208	80	6			6				0.706	
	EVC3A06N0108	150	1							1.180	
	EVC3A06Y0102	300	1	7		8				1.563	
	EVC3A08Y0102	350	1/0							1.704	
Indirect Liquid Cooled											
CCS1 CCS2 NACS	TBA	350	TBA	TBA	TBA	8	TBA	TBA	TBA	TBA	





Connector	Stock Code	Ampacity	Cond. Size	Cond Num.	Signal Wire Size	Signal Wire Num.	Insul. Mat.	Jacket Mat.	Rating	Nom. OD	
		Amp	AWG	#	AWG	#				inch	
	TBA	500	TBA	TBA						TBA	





How Stock Codes Are Constructed

	Base Part Number with Packaging Code							
Example Stock Number	EVC3A08Y0102							
Example Stock Number Colored Coded to Conditions	EVC3A08Y0102							
Stock Number Portions	EV	C	3	A	08	Y	01	02
Stock Number Conditions	1	2	3	4	5	6	7	8

Condition 1 : Cord Type	Key
Electric Vehicle	EV

Condition 2 : Rating	Key
EVE	E
EVJE	J
EVC	C
EV/EVJ	V
EVT/EVJT	T (not offered)
EV cable (Not Listed)	N

Condition 3 : Charging	Key
Level 1	1
Level 2	2
DC Fast	3
MegaWatt	M





Condition 4 : Liquid Cooled	Key
Yes, Indirect Cooling	I
Yes, Direct Cooling	D
No	A
Condition 5 : Signal Wires	Key
1	01
2	02
3	03
4	04
...	05-99

Condition 6 : Split Conductor	Key
No Split	N
Yes, Split	Y

Condition 7 : Count in Series	Key
Southwire Range	1-20
Customer Specific	21-99

Condition 8 : Packaging Code	Key
250 FT	01
500 FT	02
750 FT	03
1000 FT	04
1250 FT	05
1500 FT	06
1750 FT	07
2000 FT	08
Special Length FT	09
250 M	11
500 M	12
750 M	13
1000 M	14
1250 M	15
1500 M	16
1750 M	17
2000 M	18
Special Length M	19
Random Length	99

