

# Southwire Electric Vehicle EVE, EVJE, EVC, 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.



Images 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, EV, or EVC.

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

## SPECIFICATIONS:

- ASTM B3 - Soft or Annealed Copper
- ASTM B174 - Standard Specification for Bunch-Stranded Copper
- UL 2263 - Safety Electric Vehicle Cable
- RoHS-3 - Complies with European Directive 2015/863
- Made in America - Compliant with both Buy American and Buy America Act (BAA) requirements per 49 U.S.C. § 5323(j) and the Federal Transit Administration Buy America requirements per 49 C.F.R. part 661

## SAMPLE PRINT LEGEND:

SOUTHWIRE® 3/C XX AWG (X.XXmm<sup>2</sup>) & 1/C XX AWG (X.XXmm<sup>2</sup>) 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

“\*All EVC constructions are pending UL approval.”



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Standard EV Cable Options

Connector	Stock Code	Ampacity	Cond. Size	Cond. Num.	Signal Wire Size	Signal Wire Num	Insul. Mat.	Jkt. Mat.	Rating	Nom. OD	
		Amp	AWG	#	AWG	#				inch	mm
Level 1, 15-20 AMPS											
Type 1 Type 2 CCS1 CCS2 NACS	EVE1A01N01	15	14	3	18	1	TPE	TPE	EVE	0.556	14.12
	EVE1A01N02	20	12							0.590	14.99
Level 2, 20-80 AMPS											
Type 1 Type 2 CCS1 CCS2 NACS	EVE2A02N01	25	12	3	18	2	TPE	TPE	EVE	0.600	15.24
	EVE2A02N02	30	10							0.590	14.99
	EVE2A02N03	35 - 55	8							0.845	21.46
	EVE2A02N04	60 - 80	6							0.925	23.5
Level 3, (DC Fast Charge) 80-400 AMPS											
CCS1 CCS2 NACS	EVE3A06N01	85 - 96	4	3	18	6	TPE	TPE	EVE	1.011	25.68
	EVE3A06N02	100 - 125	2							1.212	30.78
	EVE3A06Y01	130 - 200	1	5						1.785	45.34
	EVE3A06Y02	205 - 275	2/0							2.016	51.21
EVC											
Type 1 Type 2 CCS1 CCS2 NACS	EVC2A02N01	20 - 48	8	3	18	2	TPE-Nylon	TPE	EVC	0.626	15.90
	EVC2A02N02	50 - 80	6							0.706	17.93
	EVC3A06N01	85 - 150	1			7				6	1.180
	EVC3A06Y01	155 - 300	1	1.563							39.7
	EVC3A08Y01	305 - 350	1/0	8						1.704	43.28
Indirect Liquid Cooled											
CCS1 CCS2 NACS	TBA	350	TBA	TBA	TBA	8	TBA	TBA	TBA	TBA	TBA
	TBA	500	TBA	TBA						TBA	TBA

Note: All dimensions are nominal and subject to normal manufacturing tolerances.



## 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 : Cord Type	Key
EVE	E
EVJE	J
EVC	C
EV/EVJ	V
EVT/EVJT	T (Not offered)
EV cable (Not Listed)	N

Condition 3 : Cord Type	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 2	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


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