



Draka

Industrite® EV - Electric Vehicle Cable

multiconductor with CPE, TPE or PVC jackets / 300V and 600V versions



Applications

Draka's Industrite® EV electric vehicle cables offer a solution suitable for every application. Our specially formulated insulation and jacketing compounds provide a full range of performance characteristics.

Industrite EV insulation and jacket compounds provide long term reliable service in the harshest environments, superior durability in heavy use applications and in extreme cold temperatures. Industrite EV compounds are RoHS compliant.

Draka's Industrite EV cables can be customized to suit your exact requirements including power limited data, signal and communications conductors and fiber optics.

Features

1. CONDUCTORS

Soft drawn, Class K, tinned copper per ASTM B33, B172 & B174. Bare copper and all other stranding configurations and classes are available.

2. INSULATION

UL Type EV and EVJ - Heat and moisture resistant, ethylene propylene rubber (EPR) meeting the requirements of UL 62

UL Type EVE and EVJE - Heat and moisture resistant, thermoplastic elastomer (TPE) meeting the requirements of UL 62

UL Type EVT and EVJT - Heat and moisture resistant, polyvinyl chloride (PVC) meeting the requirements of UL 62

3. JACKET

UL Type EV and EVJ - Heat and moisture resistant, chlorinated polyethylene (CPE) meeting the requirements of UL 62

UL Type EVE and EVEJ - Heat and moisture resistant, thermoplastic elastomer (TPE) meeting the requirements of UL 62

UL Type EVT and EVTJ - Heat and moisture resistant, polyvinyl chloride (PVC) meeting the requirements of UL 62

Flame resistant non-hygroscopic fillers (as needed)

Ratings

600 Volt UL Type EV, EVE & EVT

300 Volt UL Type EVJ, EVJE & EVJT

Temperature range 90°C Dry or 60°C Wet

Thermoset CPE jacket Suitable for use at -40°C

RoHS compliant

Options:

600 volt constructions are available with 2 or more conductors in sizes 18 AWG through 500 KCMIL

300 volt constructions are available with 2 to 5 conductors in sizes 18 AWG through 12 AWG

All constructions can include power-limited data, signal and communications conductors and fiber optics.



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Conductor Number	Conductor Size	Class	Insulation Thickness mils (mm)	Jacket Thickness mils (mm)	Outer Diameter in (mm)	Approximate Cable Weight Lbs/Mft (Kg/Km)
3	16 AWG	K	30 (0.76)	80 (2.03)	0.485 (12.3)	80 (119)
3	14 AWG	K	45 (1.14)	80 (2.03)	0.545 (13.8)	156 (232)
3	12 AWG	K	45 (1.14)	80 (2.03)	0.605 (15.4)	204 (303)
3	10 AWG	K	45 (1.14)	80 (2.03)	0.670 (17.0)	263 (391)
3	8 AWG	K	60 (1.52)	100 (2.54)	0.890 (22.6)	490 (729)
2	2 AWG	K	60 (1.52)	156 (3.96)	1.33 (3.38)	1160 (1726)
1	6 AWG	K	60 (1.52)			
4	18 AWG	K	30 (0.76)			
3	6 AWG	K	60 (1.52)	125 (3.18)	2.05 (5.21)	610 (908)
2	18 AWG	K	30 (0.76)			
2	1/0 AWG	K	80 (2.03)	156 (3.96)	1.56 (2.96)	1500 (2232)
1	6 AWG	K	60 (1.52)			
6	18 AWG	K	30 (0.76)			

The specifications shown above are for UL Type EV cables ONLY.

The data herein is approximate and subject to normal manufacturing tolerances. These specifications are subject to change without notice.

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