Product Specifications

GB/T 33594-2017 Electric Vehicle Cable

Description

Conductor: multi-strand fine-stranded copper conductor

Insulation: TPE or irradiated ethylene propylene rubber

Shielding (if any): braided copper wire and wrapped with aluminum-plastic composite tape

Filling: PP mesh filling rope

Tape: thin non-woven fabric

Sheath: TPE or TPU, color : black or orange

Technical Parameters

Rated voltage: AC ≤450/750V DC ≤1000V

Withstanding voltage test: 2.5kV/15min, 3.5kV/15min

Conductor working temperature: -40°C~+105°C (60°C for models EVDC-SS and EVDC-SSPS)

Working environment temperature of the product: -50℃~+50℃

Minimum bending radius: 4D for static applications; 5D for dynamic applications.

Product Specifications

Applications

It is mainly used for the connection between the charging pile and the electric vehicle, and can also be used for the connection between the portable charging device and the charging power source.

Product Features

●Resistance to chemical liquids: GB/T33594-2017 (soak in the test liquid for 1 hour, take it out and place it at room temperature for 22 hours, and there will be no cracks on the surface of the cable after the sample is bent)

●Anti-ultraviolet aging: GB/T16422.3 (1000h, no discoloration, no cracking, retention rate of tensile strength and elongation at break ≥ 80%)

●Friction resistance: GB/T33594-2017 (the sheath is reciprocated and scraped 2000 times, the sheath will not be worn through, and the core will not be exposed)

● Low temperature bending: GB/T 33594-2017 (-40℃/16h, no cracks on the cable surface)

●Anti-vehicle rolling: meet the requirements of GB/T 33594-2017

●Flame retardant performance: meet the requirements of GB/T 33594-2017

●Environmental protection: meet RoHS

Product Specifications

1.Cable structure and electrical parameters for AC electric vehicle charging

Product Type	Specification	Outer Diameter mm	Outer diameter range	Conductor maxmDC resistance(20℃)	Ampacity
EV-EYU(T) EV-S90UT EV-EYUPU EV-S90S90PU	3×2.5+(0~2)×(0.5~0.75)	2.3	12.0~13.0	7.98	20
	3×6+(0~2)×(0.5~0.75)	3.5	15.0~16.0	3.30	32
	5×2.5+(0~2)×(0.5~0.75)	2.3	14.0~15.0	7.98	20
	5×6+(0~2)×(0.5~0.75)	3.5	19.0~20.0	3.30	32

2.Cable structure and electrical parameters for DC electric vehicle charging

Product Type	Specification	Outer Diameter mm	Outer diameter range	Conductor max DC resistance(20℃)	Ampacity
EVDC-EYU EVDC-S90U EVDC-EYUPU EVDC-S90S90PU	2×16+1×16	5.8	19.0~22.0	1.21	80
	2×35+1×25	8.6/6.9	27.0~32.0	0.554/0.780	125
	2×50+1×25	10.0/6.9	32.0~37.0	0.386/0.780	150
	2×70+1×25	11.8/6.9	37.0~42.0	0.272/0.554	250