

Product Specifications



EN 50620:2017 Electric Vehicle Cable

Description

Conductor: multi-strand fine-stranded copper conductor

Insulation: irradiated ethylene propylene rubber, color can be customized according to customer requirements

Filling: PP mesh filling rope

Tape: thin non-woven fabric

Sheath: TPU, color one black

Technical Parameters

Rated voltage: AC 450/750V

Withstanding voltage test: 2.5kV/5min

Conductor working temperature: -40°C~+105°C

Working environment temperature of the product: -50°C~+50°C

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

Product Specifications



Applications

It is mainly used for the connection between the AC electric vehicle 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: EN50620 (Pass the test for: liquid lubricating oil, diesel and gasoline for high-load machinery, unleaded gasoline, urea, diesel, antifreeze and cleaning solvents)
- Anti-ultraviolet aging: EN50620, no discoloration, no cracking, retention rate of tensile strength and elongation at break $\geq 80\%$
- Friction resistance: EN50620 (the sheath is scraped back and forth for 2000 times, the sheath will not be worn through, and the wire core will not be exposed)
- Low temperature bending: EN50620 ($-40^{\circ}\text{C}/16\text{h}$, no cracks on the cable surface)
- Anti-vehicle crushing: meet the requirements of EN50620
- Flame retardant performance: meet the requirements of EN50620
- Halogen-free: meet the requirements of EN50620
- Meet RoHS

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Cable structure and electrical parameters for DC electric vehicle charging

Product Type	Specification	Outer Diameter mm	Outer diameter range	Conductor max DC resistance(20°C)	Ampacity
H07BZ5-F EVC07B,C3Q。 -F EVCO7B,Q ₀ (H8)-F EVC07B,C3Q,-H EVCO7B,Q ₀ (H8)-H	$3 \times 2.5 + (0 \sim 2) \times (0.5 \sim 0.75)$	2.3	12.0~13.0	7.98	20
	$3 \times 6 + (0 \sim 2) \times (0.5 \sim 0.75)$	3.5	15.0~16.0	3.30	32
	$5 \times 2.5 + (0 \sim 2) \times (0.5 \sim 0.75)$	2.3	14.0~15.0	7.98	20
	$5 \times 6 + (0 \sim 2) \times (0.5 \sim 0.75)$	3.5	19.0~20.0	3.30	32
	$3 \times 16 + 6 \times (0.5 \sim 0.75)$	5.8	20.0~23.0	1.21	80
	$3 \times 25 + 6 \times (0.5 \sim 0.75)$	6.9	29.5~30.5	0.780	100
	$3 \times 35 + 6 \times (0.5 \sim 0.75)$	8.6	33.5~34.5	0.554	125