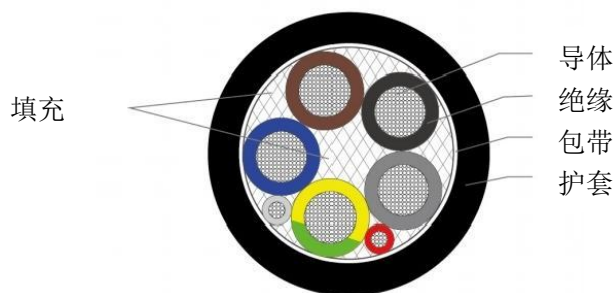


# Product Specifications



## IEC62893:2020 Electric Vehicle Cable

### Description

Conductor: Stranded fine-stranded conductor

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

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

Filling: PP mesh filling rope

Tape: thin non-woven fabric

Sheath: TPU, color one black

### Technical Parameters

Rated voltage: AC  $\leq 450/750V$  , DC  $\leq 1500V$

Hipot test: 2.5kV/5min, 3.5kV/5min

Conductor working temperature:  $-40^{\circ}C \sim +105^{\circ}C$

Working environment temperature of the product:  $-50^{\circ}C \sim +50^{\circ}C$

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

# Product Specifications

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## Applications

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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

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- Resistance to chemical liquids: IEC 62893 (pass test for: liquid lubricating oil, diesel and gasoline for high-load machinery, unleaded gasoline, urea, diesel, antifreeze and cleaning solvents)
- Anti-ultraviolet aging: IEC62893, no discoloration, no cracking, retention rate of tensile strength and elongation at break  $\geq 70\%$
- Friction resistance: IEC 62893 (the sheath is reciprocated and scraped 2000 times, the sheath will not be worn through, and the wire core will not be exposed)
- Low temperature bending: IEC 62893 (-40 °C /16h, no cracks on the cable surface)
- Anti-vehicle crush: meet the requirements of IEC 62893
- Flame retardant performance: meet the requirements of IEC 62893
- Halogen-free: meet the requirements of IEC 62893
- Meet RoHS

# Product Specifications



## Cable structure and electrical parameters for AC electric vehicle charging

Product Type	Specification	Outer Diameter mm	Outer diameter range	Conductor max DC resistance(20°C)	Ampacity
62893 IEC 121 62893 IEC 123	$3 \times 2.5 + (0 \sim 2) \times (0.5 \sim 0.75)$	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

## 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
62893 IEC 126	$2 \times 16 + 1 \times 16$	5.8	19.0~22.0	1.21	80
	$2 \times 35 + 1 \times 25$	8.6/6.9	27.0~32.0	0.554/0.780	125
	$2 \times 50 + 1 \times 25$	10.0/6.9	32.0~37.0	0.386/0.780	150
	$2 \times 70 + 1 \times 25$	11.8/8.6	37.0~42.0	0.272/0.780	250