Aluminium Busbar Wrap

CR-BS-8002 · Braided Sleeving Series



Description

CR-BS-8002 is a square protective sleeve specifically designed for aluminum busbars used in electric vehicle charging. It is woven by blending polyester multifilaments and monofilaments. It'

Product Features

- Working Temperature
- High-voltage Wire Identification Color
- Resists Gasoline, Engine Chemicals
- Abrasion Resistance
- Easy to Install

Standard / Certification

ISO 6722-1 · FMVSS 302 · ISO 9001 · IATF 16949 · ISO 14001 · ISO 45001 · GJB9001 · ISO6722-1

Performance Parameter

Test Items	Test Method	Test Results
Impact test after thermal aging	175°C, 336 hours	No cracking or degradation.
Abrasion test	ISO6722-1	6 Class, > 30000 times
Flammability	FMVSS 302	Pass

Specifications

Part No.	Width (mm)	Height (mm)	Thickness (mm)	Overlap (mm)	Cut Length (mm)
CR-BS-80020825	32 ± 2	7 +2/−0	0.8 ± 0.2	> 8	Customized
CR-BS-80020925	32 ± 2	14 +3/−0	0.8 ± 0.2	> 8	Customized
CR-BS-80021025	40 ± 2	8 +2/−0	0.8 ± 0.2	> 8	Customized
CR-BS-80021225	32 ± 2	18 +3/−0	0.8 ± 0.2	> 8	Customized
CR-BS-80021325	38 ± 2	14 +3/−0	0.8 ± 0.2	> 8	Customized
CR-BS-80021425	38 ± 2	18 +3/−0	0.8 ± 0.2	> 8	Customized

Notes

- All the above test parameter values are typical values. For specific product test reports, please consult your sales representative.
- It can be cut to a fixed length as required.
- Other sizes can be customized upon request.

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Product Advantages

- CR–BS–8002 is a square protective sleeve specifically designed for EV charging aluminium busbars; its square cross–section fits the busbar profile for tight, thorough protection.
- Woven from polyester multifilament and monofilament, it offers superior abrasion resistance, passing ISO 6722–1 Class 6 with abrasion cycles > 30,000 times.
- With an operating temperature range of –40°C to 150°C and excellent low–temperature resistance, it adapts to conditions from extreme cold to higher temperatures.
- After heat ageing at 175°C for 336 hours, the impact test shows no cracking or degradation, ensuring stable and reliable performance in long–term high–temperature environments.
- The manufacturing site is certified to ISO 9001, IATF 16949, ISO 14001, ISO 45001, and military GJB9001C, ensuring reliable quality.
- The orange exterior serves as a high–voltage wire identification color, enabling quick identification of high–voltage components in vehicles and charging systems for safer maintenance.
- It resists gasoline and engine chemicals, suitable for busbar protection near the engine compartment and in oily environments.
- Flammability passes the FMVSS 302 test and meets the requirement, self–extinguishing after flame removal, enhancing the fire safety of high–voltage systems.
- Easy to install, with cut length and dimensions customizable to busbar specifications; overlap > 8mm ensures reliable closure.

Application Scenarios

- It is mainly used for the protection of EV charging aluminium busbars, preventing wear, corrosion, and accidental contact.
- It is suitable for outer insulation protection of new energy vehicle battery–pack busbars (copper/aluminium).
- It provides wrapping protection for high–voltage busbars inside charging stations and charging guns, with orange color for easy identification.
- It is applicable for abrasion and short–circuit protection of busbars in high–voltage distribution boxes and PDUs.
- It is used for centralized protection of energy–storage system busbars, improving system safety and tidiness.
- Cut length and dimensions can be customized to busbar specifications, flexibly adapting to various square busbar projects.