Tinned Copper Foil Self-closing Wrap

CR-BS-5003 · Braided Sleeving Series



Description

CR-BS-5003 is made of a mixture of polyester monofilament and tin plated copper foil wire. The overall structure is mainly composed of tin-plated copper foil wire. The weight of the tin-plated copper foil wire is half that of the tin-plated copper wire, effectively reducing the weight while also having excellent electromagnetic shielding function. The side opening structure is easy to install and maintain.

Product Features

- Working Temperature
- Excellent EMI Protection
- Light Weight
- Flame Retardant
- Abrasion Resistant
- Easy to Install

Standard / Certification

UL94 V-0 · ISO 9001 · IATF 16949 · ISO 14001 · ISO 45001 · GJB9001

Performance Parameter

Test Items	Test Method	Test Results
Shielding Effectiveness	GB/T 30142	> 60dB

Specifications

Part No.	Nominal I.D. (mm)	Applicable Range (mm)	Overlap	Reel Length (m/reel)
CR-BS-50030828	8	5~8	⩾ 30%	100
CR-BS-50031028	10	9~11	⩾ 30%	100
CR-BS-50031328	13	12~14	⩾ 30%	100
CR-BS-50031628	16	15~17	⩾ 30%	100
CR-BS-50031928	19	18~21	⩾ 30%	50
CR-BS-50032528	25	22~28	⩾ 30%	50
CR-BS-50033028	30	29~34	⩾ 30%	25
CR-BS-50033828	38	35~44	⩾ 30%	25
CR-BS-50035028	50	46~60	⩾ 30%	25

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-5003 is made of a mixture of polyester monofilament and tin-plated copper foil strands, with the copper foil weighing only half as much as tin-plated copper wire, effectively reducing harness weight while maintaining excellent EMI shielding performance.
- With an operating temperature range of -50°C to 150°C and outstanding low-temperature resistance, it is suitable for demanding industrial environments from extreme cold to high heat.
- The material itself is inherently flame retardant, meeting UL94 V-0 requirements, enhancing the fire safety of the entire wire harness system.
- The tin-plated copper foil surface is oxidation-resistant and corrosion-resistant, ensuring stable long-term performance in harsh automotive and industrial environments.
- Certified to ISO 9001, IATF 16949, ISO 14001, ISO 45001, and military GJB9001C standards, ensuring reliable product quality.
- It delivers > 60dB shielding effectiveness (30MHz—3GHz), efficiently attenuating high-frequency electromagnetic interference to ensure reliable operation of sensitive electronic components.
- The self-closing design enables quick installation without tools or additional tape, significantly saving wiring labor time.
- The braided construction provides superior abrasion resistance, effectively protecting against mechanical friction and external impact, extending harness service life.
- Available in 8 sizes from Φ8mm to Φ50mm, covering wire diameters from 5mm to 60mm, with customization available for specific project requirements.

Application Scenarios

- It is widely used for EMI shielding of automotive high-voltage wire harnesses, making it an ideal choice for new energy vehicle high-voltage systems and ADAS harness shielding.
- It is suitable for electromagnetic interference protection of high-temperature harnesses in automotive engine compartments and in-vehicle electronic control units (ECU/VCU).
- It is used for EMI shielding of wire harnesses in rail transit vehicles (high-speed rail, metro, light rail), meeting stringent rail industry standards.
- It is applicable for high-frequency EMI shielding and lightweight harness systems in aerospace equipment.
- It protects wire harnesses in photovoltaic inverters, EV charging stations, and outdoor distribution cabinets, ensuring electromagnetic compatibility (EMC) for new energy equipment.
- It is suitable for EMI protection of industrial automation equipment (PLC, variable frequency drives, servo motors) wire harnesses, ensuring stable control system operation.
- Custom sizes and lengths are available to meet diverse project-specific shielding requirements.