

Solder Sleeve Shield Terminals 屏蔽线焊锡端子

屏蔽接地一步到位, 专为高可靠性工业连接设计
One-Step Shield Grounding: Fast, Sealed, and Reliable

该系列端子专为高效的屏蔽层接地处理而设计。其一体化结构内预装了接地引线、锡环及密封胶圈, 仅需一次加热, 即可同步完成屏蔽层与接地线的焊接、绝缘与密封。为了确保焊接质量的一致性, 高端型号配备了热致变色或双合金温度指示器, 可直观显示加热是否达标。全系提供从聚烯烃到氟聚合物的多种材质, 覆盖 125°C 至 200°C 宽温域, 满足从标准商业到极端工业环境的严苛需求。

Designed for efficient shield-to-ground termination, this series features an all-in-one structure with a pre-installed ground lead, solder ring, and thermoplastic sealing rings. A single heating step solders the cable shield to the ground lead while providing environmental sealing. To guarantee process reliability, advanced models feature thermochromic or BiAlloy temperature indicators that visually confirm proper heating. Available in materials ranging from Polyolefin to Fluoropolymer, the series covers operating temperatures from 125°C to 200°C, suitable for standard commercial to extreme industrial environments.

系列概览

- SS125B: 聚烯烃套管, 锡环满足环保要求; 适用于最高 125°C 的标准商业环境
- SS125C: 聚烯烃套管, 通用型, 最高适用于 125°C
- SS150E: PVDF 套管, 双合金度指示器; 最高适用于 150°C
- SS150F: PVDF 套管, 热敏变色温度指示器; 耐浸泡, 最高适用于 150°C, 可选配或不配预装接地引线
- SS175G: PVDF 套管, 热敏变色指示器; 耐浸泡, 最高适用于 175°C
- SS175H: PVDF 套管, 高温双合金指示器; 耐浸泡, 最高适用于 175°C
- SS200H: 辐照交联改性氟聚合物套管, 双合金温度指示器; 最高额定温度可达 200°C, 极其适合极端环境

Series Overview

- SS125B: Polyolefin sleeve, the solder rings meet environmental protection requirements; for standard commercial environments up to 125 °C
- SS125C: Polyolefin sleeve, general-purpose for up to 125 °C
- SS150E: PVDF sleeve, BiAlloy temperature indicator; up to 125 °C
- SS150F: PVDF sleeve, thermochromic temperature indicator; immersion-resistant, up to 150 °C, available with or without preinstalled ground lead
- SS175G: PVDF sleeve, high-temperature thermochromic indicator; immersion-resistant, up to 175 °C
- SS175H: PVDF sleeve, high-temperature BiAlloy indicator; immersion-resistant, up to 175 °C
- SS200H: Radiation-crosslinked modified fluoropolymer sleeve, BiAlloy temperature indicator; highest temperature rating, up to 200 °C, ideal for extreme environments



特性与优势 Features and benefits

- 一体化单件结构: 将焊接与密封合二为一, 大幅提升屏蔽层接地的操作效率, 确保批量生产的一致性。
- 全密封耐候防护: 接头冷却后形成稳固的封装层, 有效抵御化学溶剂、液体渗透及机械震动。
- 高透可视质检: 透明绝缘管壁设计, 便于肉眼直接检查锡环熔融状态及焊点效果, 质量一目了然。
- 灵活选配规格: 提供“带预装接地线”及“标准型”两种版本, 完美适配不同的布线组装需求。
- Integrated One-Piece Design: Delivers rapid, consistent, and cost-effective shield-to-ground termination in a single component.
- Rugged Encapsulation: Creates a fully sealed joint that withstands fluids, chemicals, and heavy vibration.
- Clear Inspection Window: Transparent sleeve ensures optimal visibility for verifying solder flow and joint quality directly.
- Versatile Configurations: Available with or without pre-installed ground wires to suit diverse assembly requirements.

颜色 COLOR



备注:

- 请根据电缆额定温度、环境要求和过程控制偏好选择系列。有关详细尺寸、接地引线选项和部件编号，请参阅表 A-G。
- 可按需提供定制配置。技术规格如有更改，恕不另行通知；最低订购量可能与标准包装不同。

Notes:

- Choose the series based on cable temperature ratings, environmental requirements, and process control preferences. For detailed sizing, ground lead options, and part numbers, see table A-G.
- Custom configurations are available on request. Technical specifications may change without notice; minimum order quantities may differ from standard packaging.

产品选项 Product Options						
产品系列 Product Series	系统最高工作温度 System Oper. Temperature (Max.)	适用线缆最低耐温等级 Used on Cables Rated (Min.)	环境保护等级 Environmental Protection	焊锡成分 Solder Alloy	绝缘材料 Insulation Material	产品选型表 Selection Tables
SS125B	125°C[257°F]	85°C[185°F]	防溅 Splash resistant	Bi58	聚烯烃 Polyolefin	A
SS125C	125°C[257°F]	85°C[185°F]	防溅 Splash resistant	Cd18	聚烯烃 Polyolefin	/
SS150E*	150°C[302°F]	125°C[257°F]	耐浸泡 Immersion resistant	Sn63	聚偏二氟乙烯 Polyvinylidene fluoride	B
SS150F**	150°C[302°F]	125°C[257°F]	耐浸泡 Immersion resistant	Sn63	聚偏二氟乙烯 Polyvinylidene fluoride	C, D
SS175G***	175°C[347°F]	150°C[302°F]	耐浸泡 Immersion resistant	Sn96	聚偏二氟乙烯 Polyvinylidene fluoride	E
SS175H****	175°C[347°F]	150°C[302°F]	耐浸泡 Immersion resistant	Sn96	聚偏二氟乙烯 Polyvinylidene fluoride	F
SS200H****	200°C[392°F]	150°C[302°F]	耐浸泡 Immersion resistant	Sn96	含氟聚合物 Fluoropolymer	G

注:可提供适用于 125°C[257°F] 工作温度的无镉选项。可提供工业级别 150°C 不带示温器选项, 系列号为 SS150A。详情请咨询鼎元。

Note: Cadmium-free option is available for operating temperature of 125°C[257°F]. Industrial-grade 150°C option without temperature indicator is available (Series SS150A). Consult DINGYUAN for details.

表 A. SS125B 系列
Table A. SS125B Series

线缆尺寸 Cable OD		产品编号 Part No.	
护套外径 Jacket OD Max.	屏蔽层外径 Shield OD Min.	无预装线 No Preinstalled Lead	带预装线 (绿色) With Preinstall Lead (22AWG/0.38 mm ² green)
1.7 [.065]	0.9 [.035]	SW125B-3801	-
1.95 [.075]	1.1 [.043]	SW125B-3802	-
2.7 [.105]	1.5 [.059]	SW125B-3	SS125B-03-GG
4.5 [.180]	2.0 [.079]	SW125B-5	SS125B-05-GG
6.0 [.235]	3.3 [.130]	SW125B-6	SS125B-06-GG
7.0 [.275]	3.3 [.130]	SW125B-7	SS125B-07-GG
8.7 [.340]	4.5 [.177]	SW125B-9	SS125B-09-GG
10.7 [.420]	4.5 [.177]	SW125B-11	SS125B-11-GG
13.0 [.510]	7.0 [.276]	SW125B-13	SS125B-13-GG

表 B. SS150E 系列
Table B. SS150E Series

线缆尺寸 Cable OD		产品编号 Part No.						
护套外径 Jacket OD Max.	屏蔽层外径 Shield OD Min.	无预装线 No Preinstalled Lead	预装线选项* Preinstalled Lead Option*				编织线 Braid Strap	
			20AWG	22AWG	24AWG	26AWG	镀镍 Nickel Plated	镀锡 Tin Plated
1.95 [0.075]	0.90 [.035]	SS150E-1	SS150E-1-20TG	SS150E-1-22TG	SS150E-1-24TG	SS150E-1-26TG	SS150E-1-NB	SS150E-1-TB
2.7 [0.105]	1.40 [.055]	SS150E-2	SS150E-2-20TG	SS150E-2-22TG	SS150E-2-24TG	SS150E-2-26TG	SS150E-2-NB	SS150E-2-TB
4.3 [0.170]	2.15 [.085]	SS150E-3	SS150E-3-20TG	SS150E-3-22TG	SS150E-3-24TG	SS150E-3-26TG	SS150E-3-NB	SS150E-3-TB
6.0 [0.235]	3.30 [.130]	SS150E-4	SS150E-4-20TG	SS150E-4-22TG	SS150E-4-24TG	SS150E-4-26TG	SS150E-4-NB	SS150E-4-TB
7.0 [0.275]	4.30 [.170]	SS150E-5	SS150E-5-20TG	SS150E-5-22TG	SS150E-5-24TG	SS150E-5-26TG	SS150E-5-NB	SS150E-5-TB

双合金温度指示器

该系统通过内置的过程控制机制，显著提升了SS150E系列端接器的连接可靠性与可重复性。热缩套管内预置了精密的定量助焊剂焊锡环，负责提供屏蔽层接地所需的精确焊料。在焊锡环外侧，集成了一个易熔合金温度指示环。该指示环具有特定的熔点特性，只有当被连接表面达到最佳润湿温度时，指示环才会熔化并融入焊点。这一特性为操作者提供了明确的视觉验证标准，确保焊接工艺的一致性，从而降低安装成本。

BiAlloy Temperature Indication System

This system significantly enhances the reliability and repeatability of SS150E series terminators through built-in process control. The heat-shrinkable sleeve contains a precision-engineered, fluxed solder band that provides the exact amount of solder required for shield-to-ground termination. Encircling the solder band is a fusible BiAlloy temperature indicator ring. This ring is designed to melt only when the surfaces to be joined have reached the proper wetting temperature. This feature provides immediate visual verification of a successful bond, ensuring consistent quality and reducing installed cost.

表 C. SS150F 系列
Table C. SS150F Series

线缆尺寸 Cable OD		产品编号 Part No.					
护套外径 Jacket OD Max.	屏蔽层外径 Shield OD Min.	预装线选项* Preinstalled Lead Option*					
		无预装线 No Preinstalled Lead		20AWG			
		MIL	DINGYUAN	MIL	DINGYUAN	MIL	DINGYUAN
1.95 [0.075]	0.90 [.035]	M83519/1-1	SS150F-01	M83519/2-1	SS150F-01-20TG	M83519/2-6	SS150F-01-22TG
2.7 [0.105]	1.40 [.055]	M83519/1-2	SS150F-02	M83519/2-2	SS150F-02-20TG	M83519/2-7	SS150F-02-22TG
4.3 [0.170]	2.15 [.085]	M83519/1-3	SS150F-03	M83519/2-3	SS150F-03-20TG	M83519/2-8	SS150F-03-22TG
6.0 [0.235]	3.30 [.130]	M83519/1-4	SS150F-04	M83519/2-4	SS150F-04-20TG	M83519/2-9	SS150F-04-22TG
7.0 [0.275]	4.30 [.170]	M83519/1-5	SS150F-05	M83519/2-5	SS150F-05-20TG	M83519/2-10	SS150F-05-22TG

护套外径 Jacket OD Max.	屏蔽层外径 Shield OD Min.	预装线选项* Preinstalled Lead Option*			
		24AWG		26AWG	
		MIL	DINGYUAN	MIL	DINGYUAN
1.95 [0.075]	0.90 [.035]	M83519/2-11	SS150F-01-24TG	M83519/2-16	SS150F-01-26TG
2.7 [0.105]	1.40 [.055]	M83519/2-12	SS150F-02-24TG	M83519/2-17	SS150F-02-26TG
4.3 [0.170]	2.15 [.085]	M83519/2-13	SS150F-03-24TG	M83519/2-18	SS150F-03-26TG
6.0 [0.235]	3.30 [.130]	M83519/2-14	SS150F-04-24TG	M83519/2-19	SS150F-04-26TG
7.0 [0.275]	4.30 [.170]	M83519/2-15	SS150F-05-24TG	M83519/2-20	SS150F-05-26TG

热敏变色温度指示器

SS150F系列端子配备了独特的彩色热致变色温感指示器。当接触表面达到温度时，该指示器会发生明显的颜色变化。这一变色特征直观清晰，为生产制造与质量控制(QC)环节的成品检验提供了极大的便利。

Thermochromic Temperature Indicator

The SS150F series terminators contain a colored thermochromic temperature indicator that exhibits a distinct color change when surfaces have reached wetting temperature. This color change gives both manufacturing and Quality Control an aid in the inspection of the completed termination.

表 D. SS150F-0X-T/NB 系列
Table D. SS150F-0X-T/NB Series

线缆尺寸 Cable OD		产品编号 Part No.	
护套外径 Jacket OD Max.	屏蔽层外径 Shield OD Min.	带预装线 With Preinstall Lead	
		镀锡编织线 Tin plated Braid Strap	镀镍编织线 Nickel plated Braid Strap
1.95 [0.075]	0.90 [.035]	SS150F-01-TB	SS150F-01-NB
2.7 [0.105]	1.40 [.055]	SS150F-02-TB	SS150F-02-NB
4.3 [0.170]	2.15 [.085]	SS150F-03-TB	SS150F-03-NB
6.0 [0.235]	3.30 [.130]	SS150F-04-TB	SS150F-04-NB
7.0 [0.275]	4.30 [.170]	SS150F-05-TB	SS150F-05-NB

表 E. SS175G 系列
Table E. SS175G Series

线缆尺寸 Cable OD		产品编号 Part No.		
护套外径 Jacket OD Max.	屏蔽层外径 Shield OD Min.	无预装线 No Preinstalled Lead	预装线选项* Preinstalled Lead Option*	
			22AWG	编织线 Braid Strap
1.95 [0.075]	0.90 [.035]	SS175G-1	SS175G-1-BG	SS175G-1-NB
2.7 [0.105]	1.40 [.055]	SS175G-2	SS175G-2-BG	SS175G-2-NB
4.3 [0.170]	2.15 [.085]	SS175G-3	SS175G-3-BG	SS175G-3-NB
6.0 [0.235]	3.30 [.130]	SS175G-4	SS175G-4-BG	SS175G-4-NB
7.0 [0.275]	4.30 [.170]	SS175G-5	SS175G-5-BG	SS175G-5-NB

热敏变色温度指示器

SS175G系列端子配备了独特的彩色热致变色温感指示器。当接触表面达到温度时,该指示器会发生明显的颜色变化。这一变色特征直观清晰,为生产制造与质量控制(QC)环节的成品检验提供了极大的便利。

Thermochromic Temperature Indicator

The SS175G series terminators contain a colored thermochromic temperature indicator that exhibits a distinct color change when surfaces have reached wetting temperature. This color change gives both manufacturing and Quality Control an aid in the inspection of the completed termination.

*SS175G 系列专为高温应用环境打造,工作温度高达 200°C [392°F]。采用 Sn96 焊料,与镀镍屏蔽层完美兼容。

*The SS175G series is designed for high-temperature applications with operating temperature requirements up to 200°C [392°F]. The solder is Sn96 compatible with nickel-plated shields.

表 F. SS175H 系列
Table F. SS175H Series

线缆尺寸 Cable OD		产品编号 Part No.		
护套外径 Jacket OD Max.	屏蔽层外径 Shield OD Min.	无预装线 No Preinstalled Lead	预装线选项* Preinstalled Lead Option*	
			22AWG	编织线 Braid Strap
1.95 [0.075]	0.90 [.035]	SS175H-1	SS175H-1-BG	SS175H-1-NB
2.7 [0.105]	1.40 [.055]	SS175H-2	SS175H-2-BG	SS175H-2-NB
4.3 [0.170]	2.15 [.085]	SS175H-3	SS175H-3-BG	SS175H-3-NB
6.0 [0.235]	3.30 [.130]	SS175H-4	SS175H-4-BG	SS175H-4-NB
7.0 [0.275]	4.30 [.170]	SS175H-5	SS175H-5-BG	SS175H-5-NB

双合金温度指示器

本温度指示器显著提升了SS175H系列的可靠性与可重复性,同时有效降低了安装成本。该温感指示环环绕于预制焊锡环外侧,当熔化时即表明已达到最低热量要求,从而精准指示施工状态。

BiAlloy Temperature Indication System

This system greatly enhances the reliability and repeatability of SS175H series terminators while reducing installed cost. The temperature indicator ring, encircling the solder preform, melts to indicate the very minimum amount of heat.

表 G. SS200H 系列
Table G. SS200H Series

线缆尺寸 Cable OD		产品编号 Part No.		
护套外径 Jacket OD Max.	屏蔽层外径 Shield OD Min.	无预装线 No Preinstalled Lead	预装线选项* Preinstalled Lead Option*	
			22AWG	编织线 Braid Strap
1.95 [0.075]	0.90 [.035]	SS200H-1	SS200H-1-22NG	SS200H-1-NB
2.7 [0.105]	1.40 [.055]	SS200H-2	SS200H-2-22NG	SS200H-2-NB
4.3 [0.170]	2.15 [.085]	SS200H-3	SS200H-3-22NG	SS200H-3-NB
6.0 [0.235]	3.30 [.130]	SS200H-4	SS200H-4-22NG	SS200H-4-NB
7.0 [0.275]	4.30 [.170]	SS200H-5	SS200H-5-22NG	SS200H-5-NB

双合金温度指示器

本温度指示器显著提升了SS200H系列的可靠性与可重复性,同时有效降低了安装成本。该温感指示环环绕于预制焊锡环外侧,当熔化时即表明已达到最低热量要求,从而精准指示施工状态。

BiAlloy Temperature Indication System

This system greatly enhances the reliability and repeatability of SS200H series terminators while reducing installed cost. The temperature indicator ring, encircling the solder preform, melts to indicate the very minimum amount of heat.

表 H. 预装线说明
Table H. Preinstalled Lead Description

系列 Series	线类型 Lead Type	镀层 Plating	导体结构 Stranding	最小长度 Min.Length
SS200H	M22759/91	银 Silver	多股绞合 Stranded	150 (6.00)
M83519, SS150E	55A0111	锡 Tin	多股绞合 Stranded	150 (6.00)
SS175G, SS175H	55A0813	镍 Nickel	多股绞合 Stranded	150 (6.00)
SS150E, SS175G, SS150F	编织线 Braid strap	镍 Nickel	40×38 AWG	150 (6.00)
SS125B	XLPE	锡 Tin	多股绞合 Stranded (W2)	150 (6.00)
SS125C	XLPE	锡 Tin	多股绞合 Stranded (W1)	150 (6.00)
SS150E, SS150F	编织线 Braid strap	锡 Tin	多股绞合 Stranded	150 (6.00)

产品特性 Product Characteristics

材料规格 Material

绝缘层 Insulation

SS200H	辐照交联热缩改性氟聚合物 Radiation-crosslinked, heat-shrinkable, modified fluoropolymer
SS150, M83519	辐照交联热缩聚偏氟乙烯 Radiation-crosslinked, heat-shrinkable polyvinylidene fluoride
SS125B	辐照交联热缩聚烯烃 Radiation-crosslinked, heat-shrinkable polyolefin

焊料 Solder

SS150E, M83519, SS150F	焊料: Sn63 Pb37 Solder: Sn63 Pb37
SS200H, SS175G, SS175H	焊料: Ag4 Solder: Ag4
SS125B	焊料: Sn42 Bi58 Solder: Sn42 Bi58

接地线 Ground lead

SS125B	XLPE
SS200H	MIL-C-22759/91 or /87
SS150, SS175G, M83519	MIL-W-22759/32 or /41

典型性能 Typical Performance

电压降 Voltage drop	2.5mv
抗张强度 Tensile strength	超过接地线本体强度 Exceeds strength of ground lead
介电强度 Dielectric strength	1.0 kV (浸水测试) 1.0kv immersed
额定温度 Temperature rating	
SS125B	-55°Cto +125°C [-67°Fto 257°F]
SS150E/M83519/SS150F	-55°Cto +150°C [-67°Fto 302°F]
SS175G/SS175H	-55°Cto +175°C [-67°Fto 347°F]
SS200H	-55°Cto +200°C [-67°Fto 392°F]
绝缘电阻 Insulation resistance	1000 MΩ