

## Solder Sleeve Shielded and Coaxial Cable Splices 屏蔽同轴电缆焊锡中接端子

360°全屏蔽修复 • 电磁防护  
360° Shield Continuity • EMI Protection

SA 系列提供了一种快速、可靠的方案，用于对接屏蔽电缆或同轴电缆（单芯/多芯），在连接线芯的同时，能够完美恢复屏蔽层的完整性。每个套件包含：用于连接内部芯线的CA系列压接管，以及一个外部封装组件——由预浸焊锡的铜编织网与透明热缩管组成。只需一次加热，内部铜网上的焊锡熔化，实现屏蔽层的360°环绕焊接，同时热缩管收缩完成整体密封。这种设计不仅保证了接头处电磁屏蔽，更提供了优异的抗震加固性能，确保连接后的屏蔽效果等同甚至优于原装电缆。

SA series (Cable-to-Cable) offers a fast, reliable solution for splicing shielded or coaxial cables. It fully restores the shield's integrity, effectively eliminating EMI vulnerabilities at the joint. Each unit integrates a CA series crimp splice for conductors and a flux-coated, solder-impregnated copper braid housed within a transparent heat-shrink sleeve. A single heating step solders the braid circumferentially to the cable shield, encapsulates the entire splice, and provides robust strain relief. The result is shield continuity that matches or exceeds the original cable specifications.

### 系列概览

SA 系列为通用型产品线，涵盖多种尺寸，适配不同的电缆直径与屏蔽结构。

- 多芯屏蔽电缆：选型及尺寸请参阅表 A。
- 同轴电缆：选型及尺寸请参阅表 B。

### Series Overview

Universal product line accommodating various cable diameters and shield constructions.

- Multiconductor Shielded Cables: See Table A for selection criteria.
- Coaxial Cables: See Table B for selection criteria.

### 备注：

- 详细尺寸、电缆兼容性表及零件号请参阅表 A-B。
- 可按需提供定制的编织网类型、尺寸及接地线配置。规格如有变更恕不另行通知。最低起订量 (MOQ) 可能与标准包装数量不同。

### Notes:

- Refer to table A-B for detailed dimensions, cable compatibility tables, and part numbers.
- Custom braid types, sizes, and ground-lead configurations are available on request. Specifications may change without prior notice. Minimum order quantities (MOQ) may differ from standard packaging quantities.



### 特性与优势 Features and benefits

- 360° EMI屏蔽：预浸焊锡的铜编织网，加热后实现全方位焊接，杜绝电磁泄漏。
- 全透明封装：透明热缩套管提供绝缘、密封、抗震加固及可视化质检功能。
- 一体化高效施工：单件式设计简化了复杂的屏蔽线修复工艺，大幅降低人工成本。
- 广泛适用：适用于同轴及多芯电缆的制造、现场维修及返工。
- 360° EMI Shielding: Flux-coated, solder-impregnated braid ensures controlled soldering and complete shield restoration.
- All-in-One Encapsulation: Transparent sleeve offers insulation, inspection visibility, and mechanical reinforcement.
- Simplified Installation: One-piece design reduces complexity and total installed cost.
- Versatile Application: Ideal for fabrication, repair, and rework of coaxial and multiconductor cables.

### 颜色 COLOR



表 A. 多芯电缆对接套件  
Table A. Multiconductor Cable Splices

每个部件均包含一个屏蔽接头(用于接外层屏蔽网)和一个或多个导体接头(用于接内部芯线)。关于导体接头的具体描述及数量,请参阅下方信息。

Each SolderShield part consists of a SolderShield splice and one or more conductor splices. Refer to information below for description and numbers of conductor splices.

产品编号 Product No.		产品尺寸 Dimensions				导体接头适配范围 Conductor Splice Size Range		颜色 Color	数量/套 Qty/Kit
镀锡 Tin Plated	镀镍 Nickel Plated	L1 Max.	L2 Nom.	L3 Min.	ID Min.	CMA [mm <sup>2</sup> ] Min.-Max.			
SA150A-0168	SA150A-0228	80.50 [3.17]	50.00 [1.97]	10.20 [.400]	3.00 [.118]	304-1510 [0.15-0.75]		红 Red	1
SA150A-0169	SA150A-0229	80.50 [3.17]	50.00 [1.97]	10.20 [.400]	4.00 [.157]	779-2680 [0.39-1.34]		蓝 Blue	1
SA150A-0170	SA150A-0230	80.50 [3.17]	50.00 [1.97]	10.20 [.400]	5.00 [.197]	1900-6755 [0.95-3.37]		黄 Yellow	1
SA150A-0174	SA150A-0231	106.0 [4.17]	75.00 [2.95]	10.20 [.400]	4.00 [.157]	304-1510 [0.15-0.75]		红 Red	2
SA150A-0175	SA150A-0232	106.0 [4.17]	75.00 [2.95]	10.20 [.400]	5.00 [.197]	779-2680 [0.39-1.34]		蓝 Blue	2
SA150A-0176	SA150A-0233	106.0 [4.17]	75.00 [2.95]	10.20 [.400]	6.00 [.236]	1900-6755 [0.95-3.37]		黄 Yellow	2
SA150A-0177	SA150A-0234	106.0 [4.17]	75.00 [2.95]	10.20 [.400]	9.00 [.356]	304-1510 [0.15-0.75]		黄 Yellow	2
SA150A-0178	SA150A-0235	106.0 [4.17]	75.00 [2.95]	10.20 [.400]	4.00 [.157]	304-1510 [0.15-0.75]		红 Red	4
SA150A-0179	SA150A-0236	106.0 [4.17]	75.00 [2.95]	10.20 [.400]	5.00 [.197]	779-2680 [0.39-1.34]		红 Red	4
SA150A-0180	SA150A-0237	106.0 [4.17]	75.00 [2.95]	10.20 [.400]	6.00 [.236]	1900-6755 [0.95-3.37]		蓝 Blue	4
SA150A-0181	SA150A-0238	106.0 [4.17]	75.00 [2.95]	10.20 [.400]	9.00 [.356]	1900-6755 [0.95-3.37]		黄 Yellow	4

注:本表中列出的对接套件适用于 1:1 电缆对接。这些套件可用于导体镀层为锡、银及镍的电缆。所有套件均具备环境密封能力。所用电缆的额定耐温必须至少为 125°C。

如何查找适合您应用的对接套件型号:

1. 确定待对接电缆中的导体数量。
2. 确定每根导体的线规 (Gauge) 或护套的最大外径 (OD)。
3. 确定导体的镀层类型。
4. 从上表中选择相应的零件号。

Note: The SolderShield splice kits listed in this table are for 1:1 cable splices. The kits can be used on cables with tin-, silver-, and nickel-plated copper conductors. All the kits have environmental-sealing capability. The cable temperature rating must be 125°C minimum.

To find the splice kit part number for your application:

1. Determine the number of conductors in the cable to be spliced.
2. Determine the gauge of each conductor or the maximum jacket OD.
3. Determine the conductor plating.
4. Select the appropriate part number from the table above.

**表 B. 同轴电缆对接套件**  
**Table B. Coaxial Cable Splices**

每个部件均包含一个屏蔽接头(用于连接外层屏蔽)和一个或多个导体接头。关于导体接头的具体描述及数量, 请参阅下方信息。

Each SolderShield part consists of a SolderShield splice and one or more conductor splices. Refer to information below for description and numbers of conductor splices.

RG 电缆型号 RG Cable No.	电缆描述 Cable Description	导体接头 Conductor Splice Qty/Kit	产品型号 Part No.	屏蔽端子尺寸 Solder Shield Dimensions		
				L1 Max	L2 Min	ID Min
8A, 9B, 11	5012A3311					
13, 26, 31	5012E1339					
115, 144, 149	7518A1311	1	SA150A-0214	80.50	50.00	12.00
165, 213, 214	-			[3.170]	[1.970]	[.472]
216, 235, 391	-					
393, 397	-					
178, 196	5028A1317					
179, 187, 188	7528A1317	1	SA150A-0094	80.50	50.00	3.00
316, 404, M17/138-00001	5030A1317			[3.170]	[1.970]	[.118]
M17/136-00001	7530A1317					
180, 195	5024A1311					
M17/137-00001	7526A1311	1	SA150A-0095	80.50	50.00	4.00
M17/139-00001	9527A1318			[3.170]	[1.970]	[.157]
-	9530E1014					
124, 140, 141	5020A1311					
159, 302, 303	5022A1311	1	SA150A-0096	80.50	50.00	5.00
-	7522A1311			[3.170]	[1.970]	[.236]
-	7523D1331					
-	7524A1311					
29, 30, 55B	5019D3318					
58, 223	5021D1331	1	SA150A-81*	56.00	23.00	7.00
-	5022A1311			[2.200]	[.900]	[.275]
59, 62, 71	7523D1331					
-	7524A1311	1	SA150A-82*	56.00	23.00	7.00
-	9524A1311			[2.200]	[.900]	[.275]

\*注:带星号(\*)的套件使用焊锡方式来端接中心导体;所有其他套件均使用压接方式。

所有套件均适用于 1:1 同轴电缆对接,且均具备环境密封能力。每个套件包含完成以下步骤所需的所有产品:连接导体、重建介电层、连接屏蔽层、提供绝缘保护。

\*These kits use solder to terminate the center conductors. All other kits use crimp. All kits are for one-to-one coaxial cable splices, and all kits have environmental sealing capability. Each kit contains products to splice conductors, build up dielectric, splice the shield, and provide insulation.

### 产品特性 Product Characteristics

#### 材料规格 Material

绝缘套管 Insulation sleeve	辐射交联热缩聚偏氟乙烯 Radiation-crosslinked, heat-shrinkable polyvinylidene fluoride
热熔密封环 Meltable Inserts	氟碳基热塑性塑料 Fluorocarbon-based thermoplastic
MiniSeal 压接端子 (MiniSeal Crimp Splice)	镀层: 镀锡或镀镍 Plating: Tin or nickel
屏蔽端子 Solder Sleeve Shield Splice	基材: 镀锡铜编织线, 符合 ASTM B3 标准 Base metal: Tin-plated copper wire braid per ASTM B3 焊料: Sn63 Pb37 Solder: Sn63 Pb37

参数项 Parameter	测试方法 (Test Method)	规格要求 (Requirement)
<b>机电性能 Electromechanical Performance</b>		
介电强度 (屏蔽连接) Dielectric Strength (Shield)	—	1000 Vac (RMS) 下无击穿或飞弧 No breakdown or arcing at 1000 Vac (RMS)
介电强度 (导体连接) Dielectric Strength (Conductor)	—	2.5 kV
绝缘电阻 (屏蔽连接) Insulation Resistance (Shield)	—	500 Vdc 下最小 1000 兆欧 (MΩ) 1000 megohms minimum at 500 Vdc
绝缘电阻 (导体连接) Insulation Resistance (Conductor)	—	5000 兆欧 (MΩ) 5000 megohms
额定工作温度 Temperature Rating	—	-55°C to 150°C [-67°F to 302°F]
<b>环境耐候性 (Environmental Resistance)</b>		
热老化 Heat Aging	150°C [302°F] 750 hs	满足所有机电性能要求 Meet all electromechanical requirements.
高海拔浸泡 Altitude Immersion	浸泡于 22,860 米 [75,000 英尺] 高度 Immersion at 22,860m [75,000 ft]	满足绝缘电阻要求 Meet insulation-resistance requirement.