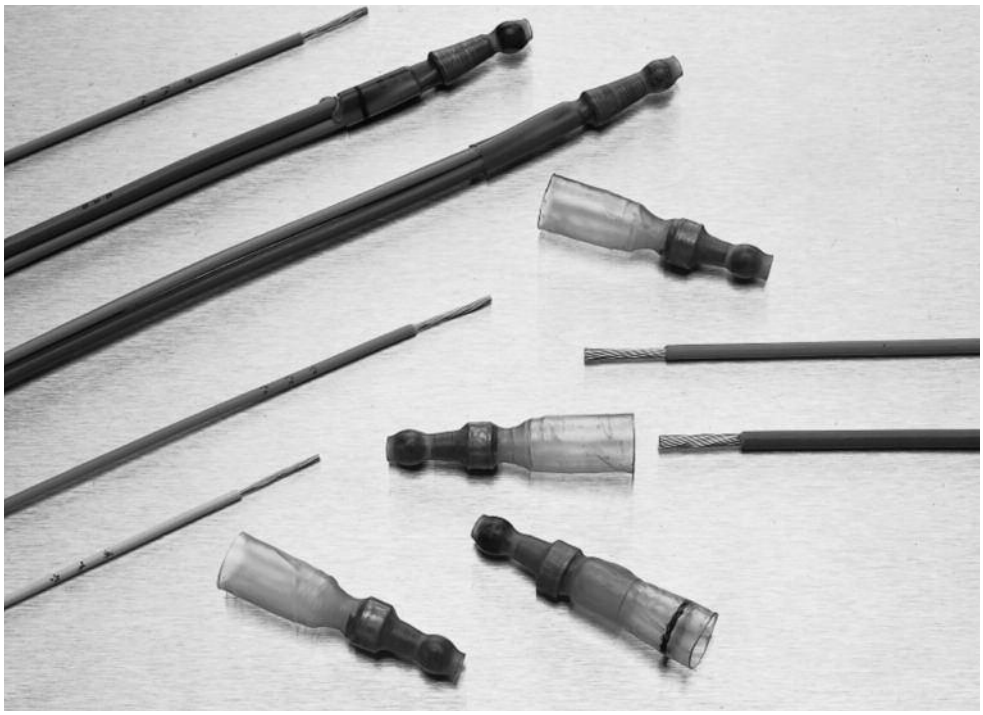
SolderGrip Closed End Connector Splices

Product Facts

- Soldered connection
- Electrical insulation
- Sealed for immersion (SGRS-X-58, SGRS)
- Excellent strain relief
- Simple installation



Applications

SolderGrip heat-shrinkable solder-type closed-end connectors are designed for electrical termination of multiple-wire combinations. They provide a reliable alternative to crimping, welding, or conventional twist-on-style closed-end connectors.

Their unique combination of wire fixturing and controlled-soldering technology provides dependable electrical termination of multiple wire combinations.

SolderGrip terminators consist of a heat-shrinkable thermoplastic sleeve containing a spiral-wound copper insert. The insert is fitted with a prefluxed solder band.

This innovation design allows SolderGrip products to reliably terminate as many as 10 wires of different sizes and types in a single device.

The capability of SolderGrip terminators encompasses single or multi-stranded, bare or tinned copper wires with low- or high-temperature insulation.

The termination is environmentally protected and strain relieved.

SolderGrip splice terminators are color-coded for easy identification.

Product Options

Product Series	Environmental Protection	Max. Operating Temp.
SGRP	Splashproof	125°C [257°F]
SGRS-X-58	Sealed	125°C [257°F]
SGRS	Sealed	125°C [257°F]

Available in:	
Americas	■
Europe	■
Asia Pacific	■

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SolderGrip Closed End Connector Splices (Continued)

Product Selection Process

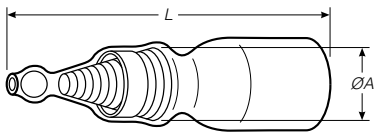
1. From the Product Options table on the previous page, select the product series appropriate for your application.
2. Determine the wire combination (number of wires and size) of the wire bundle you wish to splice.
3. Use Table C (page 8-15) to select the correct connector for AWG wire combinations.*
   For mm² wire combinations use Table A to select a SolderGrip part number.

Example: For connecting a bundle with one 12 AWG wire (1 #12) and two 14 AWG wires (+2 #14), you need an SGRP-3 connector. For sealed parts, select the SGRS series.

*If the wire combination is not listed in Table C, use the CMA (mm²) method of determining wire bundle size (see "CMA/mm² Calculation" on page 8-14). Using Table B (page 8-14, select the smallest size connector that will fit your total wire CMA (mm²) value.

4. Verify that the wire bundle (with wire insulation) does not exceed the maximum diameter allowed for the connector you selected. Simply check the bundle's diameter against the maximum diameter that Table A (below) lists for that part.
5. Verify that the total amperage to be applied does not exceed the maximum amp rating for the part.

Insulated Closed-End Connectors (SGRP series)



Insulated and Sealed Closed-End Connectors (SGRS series)

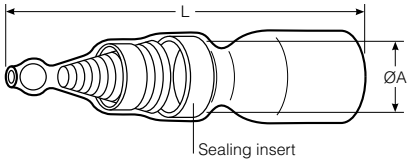


Table A - Product Dimensions and Part Number Descriptions

Part No.	Color Code	Product Dimensions (Min.) L	ØA	Wire Range (Min.-Max.) CMA/mm²
SGRP-1	Green	1.370 [34.8]	.120 [2.9]	1400 - 4800 [0.7 - 2.4]
SGRP-2	Red	1.350 [34.2]	.150 [3.7]	4000 - 8000 [2.0 - 4.0]
SGRP-3	Blue	1.610 [41.0]	.200 [5.1]	7000 - 16000 [3.5 - 8.0]
SGRP-4	Yellow	1.650 [42.0]	.270 [6.8]	15000 - 24000 [7.5 - 12.0]

Part No.	Color Code	Product Dimensions (Min.) L	ØA	Wire Range (Min.-Max.) CMA/mm²
SGRS-1	Green	1.370 [34.8]	0.130 [3.4]	1400 - 4800 [0.7 - 2.4]
SGRS-2	Red	1.350 [34.2]	0.190 [4.8]	4000 - 8000 [2.0 - 4.0]
SGRS-3	Blue	1.650 [42.0]	0.290 [7.3]	7000 - 16000 [3.5 - 8.0]
SGRS-4	Yellow	1.630 [41.5]	0.360 [9.1]	15000 - 24000 [7.5 - 12.0]

Part No.	Color Code	Product Dimensions (Min.) L	ØA	Wire Range (Min.-Max.) CMA/mm²
SGRS-1-58	Green	1.370 [34.8]	0.130 [3.4]	1400 - 4800 [0.7 - 2.4]
SGRS-2-58	Red	1.350 [34.2]	0.190 [4.8]	4000 - 8000 [2.0 - 4.0]
SGRS-3-58	Blue	1.650 [42.0]	0.290 [7.3]	7000 - 16000 [3.5 - 8.0]
SGRS-4-58	Yellow	1.630 [41.5]	0.360 [9.1]	15000 - 24000 [7.5 - 12.0]

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SolderGrip Closed End Connector Splices (Continued)

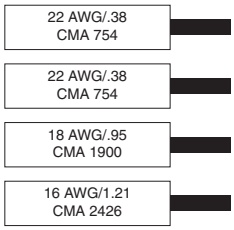
CMA/mm² Calculation

To calculate the total circular mil or mm² area of the wire bundle to be terminated, follow these steps:

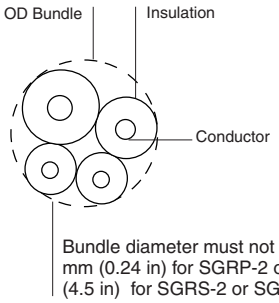
1. Choose either CMA or mm² as your unit of measure for selection purposes and continue to use it for all your selection criteria. (Both measures provide the same results.)
2. In the workspace below, list the CMA or mm² for each conductor in the bundle. (Table B provides the CMA of typical conductors.)
3. Add together the values listed in the workspace below to obtain the total area.
4. Use Table A to select the smallest terminator that will fit the total CMA (mm²).

Wire Number	CMA	mm²	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			Solder Grip Part No.
Total			

CMA/mm² Example



Total CMA = 5834
Total mm2 = 2.92
Correct part number (based on CMA of 5834 or mm² of 2.92): SGRP-2, SGRS-2 or SGRS-2-58



Bundle diameter must not exceed 6.0 mm (0.24 in) for SGRP-2 or 0.18 mm (4.5 in) for SGRS-2 or SGRS-2-58

Table B. CMA of Typical Copper Conductors

AWG	30	28	26	24	22	20	18	16	14	12	10	8
CMA	112	177	304	475	754	1216	1900	2426	3831	5874	9354	16983
mm²	0.05	0.09	0.15	0.24	0.38	0.61	0.95	1.21	1.92	2.94	4.74	8.61

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SolderGrip Closed End Connector Splices (Continued)

Table C. SolderGrip Wire Combinations

Wire Combinations	Splash-proof	Sealed
1 # 8 + 1 # 12	SGRP-4	SGRS-4-58
1 # 8 + 1 # 16	SGRP-4	SGRS-4-58
2 # 8 + 2 # 16	SGRP-4	SGRS-4-58
1 # 8 + 1 # 14	SGRP-4	SGRS-4-58
1 # 8 + 1 # 14 + 1 # 16	SGRP-4	SGRS-4-58
1 # 10 + 1 # 18	SGRP-3	SGRS-3-58
1 # 10 + 2 # 18	SGRP-3	SGRS-3-58
1 # 10 + 3 # 18	SGRP-3	SGRS-3-58
1 # 10 + 1 # 16	SGRP-3	SGRS-3-58
1 # 10 + 1 # 16 + 1 # 18	SGRP-3	SGRS-3-58
1 # 10 + 1 # 16 + 2 # 18	SGRP-3	SGRS-3-58
1 # 10 + 2 # 16	SGRP-3	SGRS-3-58
1 # 10 + 3 # 16	SGRP-4	SGRS-4-58
1 # 10 + 4 # 16	SGRP-4	SGRS-4-58
1 # 10 + 5 # 16	SGRP-4	SGRS-4-58
1 # 10 + 1 # 14	SGRP-3	SGRS-3-58
1 # 10 + 1 # 14 + 1 # 18	SGRP-3	SGRS-3-58
1 # 10 + 1 # 14 + 1 # 16	SGRP-3	SGRS-3-58
1 # 10 + 1 # 14 + 2 # 16	SGRP-3	SGRS-3-58
1 # 10 + 1 # 14 + 3 # 16	SGRP-4	SGRS-4-58
1 # 10 + 2 # 14	SGRP-4	SGRS-4-58
1 # 10 + 3 # 14	SGRP-4	SGRS-4-58
1 # 10 + 1 # 12	SGRP-3	SGRS-3-58
1 # 10 + 1 # 12 + 1 # 14	SGRP-4	SGRS-4-58
1 # 10 + 2 # 12	SGRP-4	SGRS-4-58
2 # 10	SGRP-4	SGRS-4-58
2 # 10 + 1 # 16	SGRP-4	SGRS-4-58
1 # 12 + 1 # 18	SGRP-2	SGRS-2-58
1 # 12 + 2 # 18	SGRP-3	SGRS-3-58
1 # 12 + 3 # 18	SGRP-3	SGRS-3-58
1 # 12 + 4 # 18	SGRP-3	SGRS-3-58
1 # 12 + 5 # 18	SGRP-3	SGRS-3-58
1 # 12 + 1 # 16	SGRP-3	SGRS-3-58
1 # 12 + 1 # 16 + 1 # 18	SGRP-3	SGRS-3-58
1 # 12 + 1 # 16 + 2 # 18	SGRP-3	SGRS-3-58
1 # 12 + 1 # 16 + 3 # 18	SGRP-3	SGRS-3-58
1 # 12 + 1 # 16 + 4 # 18	SGRP-4	SGRS-4-58
1 # 12 + 2 # 16	SGRP-3	SGRS-3-58
1 # 14 + 3 # 20	SGRP-2	SGRS-2-58
1 # 14 + 4 # 20	SGRP-3	SGRS-3-58
1 # 14 + 1 # 18	SGRP-2	SGRS-2-58
1 # 14 + 1 # 18 + 1 # 20	SGRP-2	SGRS-2-58
1 # 14 + 2 # 18	SGRP-2	SGRS-2-58
1 # 14 + 3 # 18	SGRP-3	SGRS-3-58
1 # 14 + 4 # 18	SGRP-3	SGRS-3-58
1 # 14 + 5 # 18	SGRP-3	SGRS-3-58
1 # 14 + 1 # 16	SGRP-2	SGRS-3-58
1 # 14 + 1 # 16 + 1 # 20	SGRP-2	SGRS-2-58
1 # 14 + 1 # 16 + 1 # 18	SGRP-3	SGRS-3-58
1 # 14 + 1 # 16 + 2 # 18	SGRP-3	SGRS-3-58
1 # 14 + 1 # 16 + 3 # 18	SGRP-3	SGRS-3-58
1 # 14 + 1 # 16 + 4 # 18	SGRP-3	SGRS-3-58
1 # 14 + 2 # 16	SGRP-3	SGRS-3-58
1 # 14 + 2 # 16 + 1 # 18	SGRP-3	SGRS-3-58
1 # 14 + 2 # 16 + 2 # 18	SGRP-3	SGRS-3-58
1 # 14 + 2 # 16 + 3 # 18	SGRP-3	SGRS-3-58
1 # 14 + 3 # 16	SGRP-3	SGRS-3-58
1 # 14 + 3 # 16 + 1 # 18	SGRP-3	SGRS-3-58
1 # 14 + 3 # 16 + 2 # 18	SGRP-3	SGRS-3-58
1 # 14 + 4 # 16	SGRP-3	SGRS-3-58
1 # 14 + 4 # 16 + 1 # 18	SGRP-3	SGRS-3-58
1 # 14 + 5 # 16	SGRP-3	SGRS-3-58
2 # 14	SGRP-2	SGRS-2 -58
2 # 14 + 1 # 16	SGRP-3	SGRS-3-58
2 # 14 + 1 # 16	SGRP-3	SGRS-3-58
2 # 14 + 1 # 16	SGRP-3	SGRS-3-58
2 # 14 + 1 # 16	SGRP-3	SGRS-3-58
2 # 14 + 2 # 16	SGRP-3	SGRS-3-58
2 # 14 + 2 # 16	SGRP-3	SGRS-3-58
2 # 14 + 3 # 16	SGRP-3	SGRS-3-58
2 # 14 + 4 # 16	SGRP-4	SGRS-4-58
3 # 14	SGRP-3	SGRS-3-58
3 # 14 + 1 # 16	SGRP-3	SGRS-3-58
3 # 14 + 2 # 16	SGRP-4	SGRS-4-58
3 # 14 + 3 # 16	SGRP-4	SGRS-4-58
4 # 14	SGRP-3	SGRS-3-58
2 # 16 + 1 # 18 + 3 # 20	SGRP-3	SGRS-3-58
2 # 16 + 1 # 18 + 2 # 20	SGRP-3	SGRS-3-58
2 # 16 + 1 # 18 + 1 # 20	SGRP-2	SGRS-2-58
2 # 16 + 1 # 18	SGRP-2	SGRS-2-58
2 # 16 + 4 # 20	SGRP-3	SGRS-3-58
2 # 16 + 3 # 20	SGRP-3	SGRS-3-58
2 # 16 + 2 # 20	SGRP-2	SGRS-2-58
2 # 16 + 1 # 20	SGRP-2	SGRS-2-58
2 # 16	SGRP-2	SGRS-2-58
1 # 16 + 5 # 18	SGRP-3	SGRS-3-58
1 # 16 + 4 # 18 + 1 # 20	SGRP-3	SGRS-3-58
1 # 16 + 4 # 18	SGRP-3	SGRS-3-58
1 # 16 + 3 # 18 + 2 # 20	SGRP-3	SGRS-3-58
1 # 16 + 3 # 18 + 1 # 20	SGRP-3	SGRS-3-58
1 # 16 + 2 # 18 + 3 # 20	SGRP-3	SGRS-3-58
1 # 16 + 2 # 18 + 1 # 20	SGRP-2	SGRS-2 -58
1 # 16 + 2 # 18	SGRP-2	SGRS-2-58
1 # 16 + 1 # 18 + 4 # 20	SGRP-3	SGRS-3-58
1 # 16 + 1 # 18 + 3 # 20	SGRP-2	SGRS-2-58
1 # 16 + 1 # 18 + 2 # 20	SGRP-2	SGRS-2 -58
1 # 16 + 1 # 18 + 1 # 20	SGRP-2	SGRS-2-58
1 # 16 + 1 # 18	SGRP-1	SGRS-1-58
1 # 16 + 4 # 20	SGRP-2	SGRS-2-58
1 # 16 + 3 # 20	SGRP-2	SGRS-2-58
1 # 16 + 1 # 20 + 1 # 22	SGRP-1	SGRS-1-58
1 # 16 + 1 # 20	SGRP-1	SGRS-1-58
1 # 16 + 3 # 22	SGRP-1	SGRS-1-58
1 # 16 + 2 # 22	SGRP-1	SGRS-1-58
1 # 16 + 1 # 22	SGRP-1	SGRS-1-58
1 # 18 + 1 # 22	SGRP-1	SGRS-1-58
1 # 18 + 2 # 22	SGRP-1	SGRS-1-58
1 # 18 + 3 # 22	SGRP-1	SGRS-1-58
1 # 18 + 1 # 20	SGRP-1	SGRS-1-58
1 # 18 + 1 # 20 + 1 # 22	SGRP-1	SGRS-1-58
1 # 18 + 1 # 20 + 2 # 22	SGRP-1	SGRS-1-58
1 # 18 + 2 # 20	SGRP-1	SGRS-1-58
1 # 18 + 3 # 20	SGRP-2	SGRS-2-58
1 # 18 + 4 # 20	SGRP-2	SGRS-2-58

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Table C. SolderGrip Wire Combinations (Continued)

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1 # 12 + 2 # 16 + 2 # 18	SGRP-3	SGRS-3-58
1 # 12 + 3 # 16	SGRP-3	SGRS-3-58
1 # 12 + 4 # 16	SGRP-3	SGRS-3-58
1 # 12 + 5 # 16	SGRP-4	SGRS-4-58
1 # 12 + 1 # 14 + 1 # 18	SGRP-3	SGRS-3-58
1 # 12 + 1 # 14 + 2 # 18	SGRP-3	SGRS-3-58
1 # 12 + 1 # 14 + 3 # 18	SGRP-3	SGRS-3-58
1 # 12 + 1 # 14 + 1 # 16	SGRP-3	SGRS-3-58
1 # 12 + 1 # 14 + 2 # 16	SGRP-3	SGRS-3-58
1 # 12 + 1 # 14 + 3 # 16	SGRP-4	SGRS-4-58
1 # 12 + 1 # 14 + 4 # 16	SGRP-4	SGRS-4-58
1 # 12 + 2 # 14	SGRP-3	SGRS-3-58
1 # 12 + 2 # 14 + 1 # 18	SGRP-3	SGRS-3-58
1 # 12 + 2 # 14 + 1 # 16	SGRP-4	SGRS-4-58
1 # 12 + 2 # 14 + 2 # 16	SGRP-4	SGRS-4-58
1 # 12 + 2 # 14 + 3 # 16	SGRP-4	SGRS-4-58
1 # 12 + 3 # 14	SGRP-4	SGRS-4-58
1 # 12 + 3 # 14 + 1 # 16	SGRP-4	SGRS-4-58
1 # 12 + 4 # 14	SGRP-4	SGRS-4-58
2 # 12	SGRP-4	SGRS-4-58
2 # 12 + 1 # 18	SGRP-3	SGRS-3-58
2 # 12 + 1 # 18	SGRP-3	SGRS-3-58
2 # 12 + 1 # 16	SGRP-3	SGRS-3-58
2 # 12 + 2 # 16 + 1 # 18	SGRP-4	SGRS-4-58
2 # 12 + 3 # 16	SGRP-4	SGRS-4-58
2 # 12 + 1 # 14 + 1 # 18	SGRP-4	SGRS-4-58
2 # 12 + 1 # 14 + 1 # 16	SGRP-4	SGRS-4-58
3 # 12 + 1 # 14	SGRP-4	SGRS-4-58
2 # 12 + 2 # 14	SGRP-4	SGRS-4-58
3 # 12 + 1 # 18	SGRP-4	SGRS-4-58
3 # 12 + 1 # 16	SGRP-4	SGRS-4-58
1 # 14 + 1 # 22	SGRP-1	SGRS-1-58
1 # 14 + 1 # 20	SGRP-2	SGRS-2-58
1 # 14 + 2 # 20	SGRP-2	SGRS-2-58
4 # 14 + 1 # 16	SGRP-4	SGRS-4-58
4 # 14 + 2 # 16	SGRP-4	SGRS-4-58
5 # 14	SGRP-4	SGRS-4-58
5 # 14 + 1 # 16	SGRP-4	SGRS-4-58
1 # 16 + 3 # 18	SGRP-3	SGRS-3-58
1 # 16 + 2 # 18 + 2 # 20	SGRP-3	SGRS-3-58
1 # 16 + 5 # 20	SGRP-3	SGRS-3-58
1 # 16 + 2 # 20	SGRP-2	SGRS-2-58
6 # 16	SGRP-3	SGRS-3-58
5 # 16 + 1 # 18	SGRP-3	SGRS-3-58
5 # 16 + 1 # 20	SGRP-3	SGRS-3-58
5 # 16	SGRP-3	SGRS-3-58
4 # 16 + 2 # 18	SGRP-3	SGRS-3-58
4 # 16 + 1 # 18 + 1 # 20	SGRP-3	SGRS-3-58
4 # 16 + 1 # 18	SGRP-3	SGRS-3-58
4 # 16 + 2 # 20	SGRP-3	SGRS-3-58
4 # 16 + 1 # 20	SGRP-3	SGRS-3-58
4 # 16	SGRP-3	SGRS-3-58
3 # 16 + 3 # 18	SGRP-3	SGRS-3-58
3 # 16 + 2 # 18 + 1 # 20	SGRP-3	SGRS-3-58
3 # 16 + 2 # 18	SGRP-3	SGRS-3-58
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3 # 16 + 1 # 18 + 1 # 20	SGRP-3	SGRS-3-58
3 # 16 + 1 # 18	SGRP-3	SGRS-3-58
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3 # 16 + 2 # 20	SGRP-3	SGRS-3-58
3 # 16 + 1 # 20	SGRP-3	SGRS-3-58
3 # 16	SGRP-2	SGRS-2-58
2 # 16 + 4 # 18	SGRP-3	SGRS-3-58
2 # 16 + 3 # 18 + 1 # 20	SGRP-3	SGRS-3-58
2 # 16 + 3 # 18	SGRP-3	SGRS-3-58
2 # 16 + 2 # 18 + 2 # 20	SGRP-3	SGRS-3-58
2 # 16 + 2 # 18 + 1 # 20	SGRP-3	SGRS-3-58
2 # 16 + 2 # 18	SGRP-3	SGRS-3-58
—	—	—
1 # 18 + 5 # 20	SGRP-2	SGRS-2-58
2 # 18	SGRP-1	SGRS-1-58
2 # 18 + 1 # 22	SGRP-1	SGRS-1-58
2 # 18 + 1 # 20	SGRP-2	SGRS-2-58
2 # 18 + 2 # 20	SGRP-2	SGRS-2-58
2 # 18 + 3 # 20	SGRP-2	SGRS-2-58
2 # 18 + 4 # 20	SGRP-3	SGRS-3-58
3 # 18	SGRP-2	SGRS-2-58
3 # 18 + 1 # 20	SGRP-2	SGRS-2-58
3 # 18 + 2 # 20	SGRP-3	SGRS-3-58
3 # 18 + 3 # 20	SGRP-3	SGRS-3-58
4 # 18	SGRP-2	SGRS-2-58
4 # 18 + 1 # 20	SGRP-3	SGRS-3-58
4 # 18 + 2 # 20	SGRP-3	SGRS-3-58
5 # 18	SGRP-3	SGRS-3-58
5 # 18 + 1 # 20	SGRP-3	SGRS-3-58
6 # 18	SGRP-3	SGRS-3-58
1 # 20 + 1 # 22	SGRP-1	SGRS-1-58
1 # 20 + 2 # 22	SGRP-1	SGRS-1-58
1 # 20 + 3 # 22	SGRP-1	SGRS-1-58
1 # 20 + 4 # 22	SGRP-1	SGRS-1-58
2 # 20	SGRP-1	SGRS-1-58
2 # 20 + 1 # 22	SGRP-1	SGRS-1-58
2 # 20 + 2 # 22	SGRP-1	SGRS-1-58
2 # 20 + 3 # 22	SGRP-1	SGRS-1-58
3 # 20	SGRP-1	SGRS-1-58
3 # 20 + 1 # 22	SGRP-1	SGRS-1-58
4 # 20	SGRP-2	SGRS-2-58
5 # 20	SGRP-2	SGRS-2-58
6 # 20	SGRP-2	SGRS-2-58
3 # 22	SGRP-1	SGRS-1-58
4 # 22	SGRP-1	SGRS-1-58
5 # 22	SGRP-1	SGRS-1-58
6 # 22	SGRP-1	SGRS-1-58
—	—	—

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Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

USA: +1 (800) 522-6752

Canada: +1 (905) 475-6222
Mexico/C. Am.: +52 (0) 55-1106-0800
Latin/S. Am.: +54 (0) 11-4733-2200
Germany: +49 (0) 6251-133-1999

UK: +44 (0) 800-267666
France: +33 (0) 1-3420-8686
Netherlands: +31 (0) 73-6246-999
China: +86 (0) 400-820-6015

SolderGrip Closed End Connector Splices (Continued)

Product Characteristics

Material			
Insulation	Radiation-crosslinked, transparent heat-shrinkable polyvinylidene fluoride		
Solder preform with flux (SGRS-X-58)	SN42Bi58, ROM1 flux per ANSI-J-STD-004 (RA flux).		
Solder preform with flux (SGRP, SGRS)	Sn 60 Pb 40, ROM1 flux per ANSI-J-STD-004 (RA flux).		
Sealing insert (SGRS-X-58, SGRS)	Hot melt adhesive		
Spiral wound insert	Copper alloy		
Physical	**Unit**	**Method of test**	**Requirement**
Dimensions	inches	RB-109	See product dimensions.
Electromechanical	**Unit**	**Method of test**	**Typical values**
Dielectric withstand voltage	kilovolts	RB-109	2.0
Static heating	degrees	RB-109	Less than 50°C rise
Environmental*	**Unit**	**Method of test**	**Requirement**
Insulation resistance after water immersion (SGRS only)	megohms	RB-109	100
Contact resistance after testing	milliohms	RB-109	Less than 6 milliohms
Operating condition	**Unit**	**Method of test**	**Value**
Temperature rating	—	—	-55°C to 125°C [-67°F to 257°F]
Voltage rating	volts	—	600

*Immersion resistance sealing is dependent on the wire combinations used. The user should test specific wire combinations. Refer to RB-109 TE specification for procedures.

Approvals and Reference Documents

Agency Approvals	UL, CUL E87681
Reference documents	TE Specification RB-109 for splices Specification Control Drawings Splices—Non Sealed (SGRP-X), Splices—Sealed (SGRS-X)

Note: SGRS-X-58 is not UL approved.

Installation

The SolderGrip product is pushed onto the conductors with a twisting motion. With the product in place, installation can be completed with the proper selection and use of heating tools and reflectors.

Either of the following TE heating tools is recommended:

- HL1910E/HL2010E
- CV-1981

Refer to TE installation procedure RPIP-820-00 for detailed instructions and recommended reflector attachments.

You will find ordering information for these tools in Section 10.

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