

## Wire Termination to Pin/Post/Tab

*Solder Sleeve discrete wire terminators*



### Applications

Used for terminating wires to component terminals, such as motor tabs, connector pins, and switch terminals.

### Features and benefits

- Transparent polyvinylidene fluoride or polyolefin insulation sleeve provides encapsulation, inspectability, strain relief, and insulation.
- Prefluxed solder preform offers a controlled soldering process.
- One-piece design means easy installation and low installed cost.
- Optional tape carrier provides convenience and ease of installation.
- UL and CUL Recognized.



### Product selection process

1. Determine the application operating temperature.
2. From the Product Options table on the next page, select the product series appropriate for the application, based on the temperature required.
3. Determine your component connection point type (pin, post, or tab) and dimensions.
4. Determine your wire gauge.
5. Optional: Select tape carrier center-to-center spacing (D-7 1X series only). This should match center spacing of component terminals.
6. Select part number from the appropriate table:
  - For CWT series (applications with low-temperature wires—below 125°C), use Table A.
  - For D-129/141/71X series (applications with wires rated higher than 125°C), use Table B.

### Installation

For proper installation of these devices, the correct heating tool and reflector attachment must be used. Either of the following Raychem heating tools are recommended:

- HL 1802E
- AA-400 Super Heater

Refer to Raychem installation procedure RCPS 200-12 (for D-129, D-141, D-7 1X) or RPIP 824-00 (for CWT) for detailed instructions and recommended reflector attachment.

You will find ordering information for these tools in the Application Equipment section (Section 10) of this catalog.

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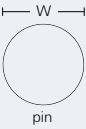


**Fax ID** 5600  
**Description** Data sheet

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**Product options**

Product series	Max. operating temperature	Min. wire temperature rating
CWT	125°C	85°C
D-129, D-141, D-71X	150°C	125°C

**Table A. CWT Series (125°C rated) (mm/in)**

Terminal dimensions		Wire AWG/mm <sup>2</sup>	Part Number
 <p>pin</p>	W = up to 0.63 (.025)	24 (.024)	CWT-1501
		20 (.061)	CWT-1502
	W = 0.63 (.025) to 0.89 (.035)	24 (.024)	CWT-1501
		22 (.038)	CWT-1502
 <p>post</p>	W = 0.89 (.035) to 1.14 (.045)	24-22 (.024-0.38)	CWT-1502
		20-18 (.061-0.95)	CWT-1503
	W = 1.14 (.045) to 1.52 (.060)	24-22 (.024-0.38)	CWT-1503
		20-18 (.061-0.95)	CWT-1504
 <p>tab</p>	W = up to 1.52 (.060)	24-20 (.024-0.61)	CWT-1501
	W = 1.27 (.050) to 2.28 (.090)	24-18 (.024-0.95)	CWT-1502
	W = 1.77 (.070) to 2.79 (.110)	24-18 (.024-0.95)	CWT-1503
	W = 2.54 (.100) to 3.80 (.150)	24-18 (.024-0.95)	CWT-1504
	W = 2.28 (.090) to 4.70 (.187)	22-16 (.038-1.21)	CWT-1505



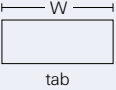
Users should independently evaluate the suitability of the product for their application. Before ordering check with factory for most current data.

## Wire Termination to Pin/Post/Tab

SolderSleeve discrete wire terminators (cont'd.)

**Table B. D-129/141/71X Series (up to 150°C rated) (mm/in)**

Connection-point type and size

Terminal dimensions	Wire AWG	mm <sup>2</sup>	Tape carrier spacing of sleeves (center-to-center)			
			None	1.27 (0.050)	2.76 (0.100)	3.17 (0.125)
 pin	W = up to 0.61 (.024)	30-26 (0.05-0.15)	D-141-30	D-713-03		
		24-22 (0.24-0.38)	D-141-07	D-711-00		
 post	W = 0.63 (.025) to 0.81 (.032)	20 (0.61)	D-141-31	D-711-04	D-711-07	D-711-08
		24-20 (0.24-0.61)	D-141-56			
 tab	W = up to 1.52 (.060)	24-20 (0.24-0.61)	D-129-05	D-714-01		
	W = 1.27 (.050) to 2.28 (.090)	24-20 (0.24-0.61)	D-129-03	D-714-00		
			D-129-0043			
	W = 2.28 (.090) to 3.55 (.140)	24-20 (0.24-0.61)				

**For fine wire terminations 0.15 mm<sup>2</sup> (26 AWG) and smaller\* (mm/in)**

Part number*	Inside diameter		Fully recovered†	Length††
	As supplied**			
D-110-0062	1.0 (0.040)		0.6 (0.025)	16.0 (0.630)
D-110-0217	1.0 (0.040)		0.6 (0.025)	9.0 (0.360)
D-141-13	0.75 x 1.65 (0.030 X 0.065)		0.75 (0.030)	4.7 (0.185)
D-141-22	0.75 x 1.65 (0.030 X 0.065)		0.75 (0.030)	6.0 (0.240)
D-141-30	0.75 x 1.65 (0.030 X 0.065)		0.75 (0.030)	9.5 (0.375)

Note: Micro SolderSleeve terminators are used for attaching leads smaller than 26 AWG (0.15 mm<sup>2</sup>) to terminals less than 0.6 mm (.025 in) wide.

\*The D-110 series sleeves are primarily for single wire terminations and do not have a wire stop. The D-141 series will accept either one or two wires; the parts have a built-in wire stop that will locate the wire approximately 0.76 mm (0.03 in) from bottom of terminal.

\*\*Minimum. Wire insulation must be smaller than this. When using the D-141 parts for two-wire terminations, the combined wire insulation diameters must be less than 1.5 mm (.060 in).

†Maximum. The combination of conductor diameter and terminal width and the wire insulation must be greater than this.

††The terminal length should be at least 1.2 mm (0.05 in) shorter than this. The wire strip length must be adjusted so that, when terminated, the exposed conductor is covered by the sleeve.

<b>Fax-on-demand</b>	<b>Fax ID</b>	<b>Description</b>
<i>US only</i> (800) 260-9099	5600	Data sheet
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<b>Product characteristics</b>	
<b>Material</b>	
Insulation (D-129, D-141, D-71X)	Radiation-crosslinked, heat-shrinkable polyvinylidene fluoride
Insulation (CWT)	Radiation-crosslinked, heat-shrinkable polyolefin
Solder and flux (D-129, D-141, D-71X)	Solder: Sn63 Pb37      Flux: ROL1 per ANSI-J - 004 (RMA flux)
Solder and flux (CWT)	Solder: Sn50 Pb32 Cd 18      Flux: ROM1 per ANSI-J - 004 (RA flux)
<b>Typical performance</b>	
Voltage drop	2.0 mV
Tensile strength	Exceeds strength of conductor
Dielectric strength	2.0 kV
Temperature rating (CWT)	-55°C to 125°C
Temperature rating (D-129, D-141, D-71X)	-55°C to 150°C
Insulation resistance	1000 megohms

<b>Specifications/approvals</b>		
<b>Series</b>	<b>Agency</b>	<b>Raychem</b>
CWT	UL and CUL E87681	D-5023
D-129, D-141	UL and CUL E87681	RT-1404

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