

Before ordering check with factory for most current data.

# Coaxial Cable Termination

SolderSleeve PCB/coaxial cable terminators

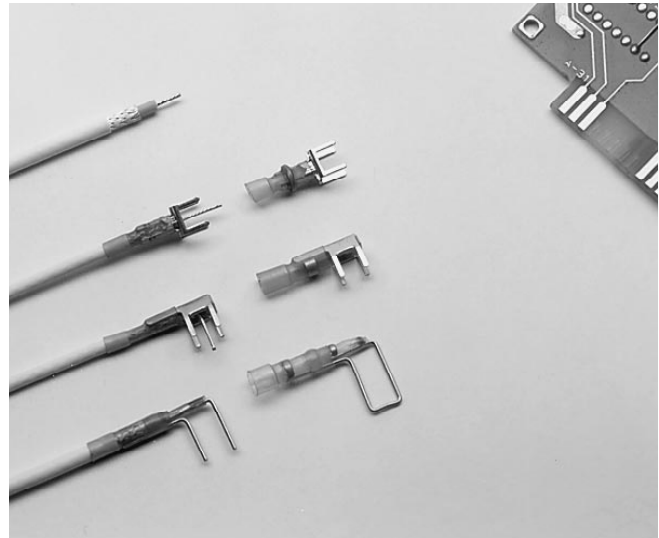
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## Applications

Used for terminating coaxial cable to printed circuit boards.

## Features/Benefits

- Provides a completely shielded, low-resistance, matched-impedance termination with very low VSWR (D-607 series only).
- Transparent Kynar insulation sleeve provides encapsulation, inspectability, strain relief, and insulation.
- Prefluxed solder preform provides a controlled soldering process.
- One-piece design offers easy installation and lower installed cost.
- Preinstalled PCB termination body provides convenience and ease of installation.



## Product Options

Product series	Typical application performance	Shield method
D-607	Matched impedance up to 2.3 GHz	Metal body
B-046	Effective transmission up to 100 MHz	Pin to ground

## Product Selection Process

1. Select product series from the Product Options table above.
2. Determine cable RG number or outside diameter dimensions.
3. Select the appropriate part number from Table A (D-607 series) or Table B (B-046 series).
  - For D-607 (matched impedance) series, determine straight or right-angle entry to PCB and grid pattern, then select the appropriate part number from Table A below.
  - For B-046 (PinPak, or pin to ground) series, determine hole spacing and diameter. Refer to Table B for product selection (see illustration beneath Table B for cable dimensions).

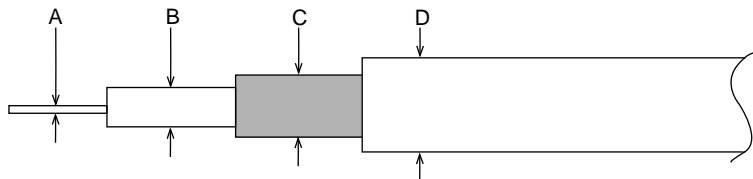
Table A. D-607 Series Part Numbers

RG cable number	Cable dimensions (mm/in)			Part number		
	Jacket	Shield	Dielectric	Entry to PCB		
				Straight grid 5.08 (.200)	Right angle grid 5.08 (.200)	Straight grid 2.54 (.100)
174, 178, 179, 316, 404	1.5–3.55 (.060–.140)	1.1–3.15 (.045–.125)	0.60–2.25 (.025–.090)	D-607-09	D-607-10	D-607-40*

\*Limited for use with RG 174, 178, and 404.

Table B. B-046 Series Part Numbers

RG cable number	Cable dimensions (mm/in)					Part number		
	A	B	C	D max.	Pin diameter	Spacing between pins		
						2.54 (.100)	5.08 (.200)	6.35 (.250)
178, 404	0.3–0.8	0.5–1.7	1.3–2.3	3.4	0.6 (.023)	B-046-14-N	B-046-10-N	B-046-12-N
	(.011–.032)	(.019–.067)	(.050–.091)	(.134)	0.8 (.031)		B-046-11-N	B-046-13-N
179, 316	0.3–1.6	1.2–2.5	1.5–2.8	4.4	0.6 (.023)	B-046-15-N	B-046-66-N	B-046-16-N
	(.011–.063)	(.047–.100)	(.060–.110)	(.173)	0.8 (.031)		B-046-68-N	B-046-18-N



**Product Characteristics**

**Material**

Insulation	Radiation-crosslinked, heat-shrinkable polyvinylidene fluoride (Kynar)
Solder and flux	Sn63 Pb37, RMA flux
Termination body/pin	Copper alloy, solder-plated

**Typical performance**

Voltage drop	2.0 mV
Tensile strength	Exceeds strength of conductor
Dielectric strength	2.0 kV
Temperature rating	-55°C to 150°C
Insulation resistance	1000 megohms

**Electrical performance (typical) D-607 series only**

Frequency	VSWR (D-607-09, -40)	VSWR (D-607-10)
350 MHz	1.04 max.	1.04 max.
700 MHz	1.05 max.	1.09 max.
2.3 GHz	1.09 max.	1.12 max.

**Specifications/Approvals**

Series	Raychem
D-607	RT-1404
B-046	RT-1404

**Installation**

For proper installation of these devices, the correct heating tool and reflector attachment must be used.

Any one of the following Raychem heating tools is recommended:

- HL1802E
- AA-400 Super Heater
- IR-1759 MiniRay
- CV-1981

Refer to Raychem installation procedure ES61139 for detailed instructions and recommended reflector attachments.

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

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