



Coaxial Cable Termination

Solder Sleeve coaxial cable terminators



Applications

Used for terminating coaxial cable to component terminals, contacts, printed circuit boards, and solderless wrap terminals.

- One-piece design provides easy installation and lower installed cost.
- Preinstalled termination leads provide convenience and ease of installation.

Features and benefits

- Transparent polyvinylidene fluoride or polyolefin insulation sleeve provides encapsulation, inspectability, strain relief (eliminates center conductor breakage), and insulation.
- Prefluxe solder preform provides a controlled soldering process.

Product selection process

1. Select product series from the product options table below.
2. Select preinstalled lead type from the table below.
3. Determine cable RG number or dimensions.
4. Select part number from Table A (CWT series) or Table B (B-02X/B-04X series) on the next page.

Available in:	Americas	Europe	Asia Pacific
	■	■	■

Product options				
Product series	Max. operating temp.	Use on cables rated (min)	Cable shield plating	Part number selection table
CWT	125°C	85°C	Tin, copper	A
B-02X/B-04X	150°C	125°C	Tin, silver	B

Preinstalled lead descriptions						
Series	Lead type	Plating	Stranding	AWG	Length in mm (in)	Color
CWT	XL polyethelene	Tin	Stranded (W1)	22	150 (6)	White (cntr), green (grnd)
B-021	M81822/13 (solderless wrap)	Silver	Solid-OFHC	24–30	150 (6)	White (cntr), blue (grnd)
B-041	M81822/13 (solderless wrap)	Silver	Solid-OFHC	24–30	150 (6)	White (cntr), blue (grnd)
B-043	M81822/13 (solderless wrap)	Silver	Solid-OFHC	24–30	150 (6)	White (cntr), blue (grnd)
B-020	55A01111 (MIL-W-22759/32)	Tin	Stranded	20–30	150 (6)	White (cntr), blue (grnd)
B-040	55A01111 (MIL-W-22759/32)	Tin	Stranded	20–30	150 (6)	White (cntr), blue (grnd)
B-044	55A01111 (MIL-W-22759/32)	Tin	Stranded	20–30	150 (6)	White (cntr), blue (grnd)

Table A. CWT Series part numbers			
Cable RG number	Dimensions in mm (in)		Part number
	Dielectric OD	Jacket OD	With preinstalled lead (22 AWG/0.38 mm ² green/white)
174	0.8–2.3 (.032–.091)	1.3–2.8 (.051–.110)	CWT-4174-W122-5/9
58, 122	2.0–2.8 (.079–.110)	2.5–4.4 (.100–.173)	CWT-4058-W122-5/9
59	2.8–3.3 (.110–.130)	3.2–6.0 (.125–.235)	CWT-4059-W122-5/9

Fax-on-demand

US only (800) 260-9099

Outside US (650) 257-2301

Fax ID

5600

5000

Description

Data sheet

Data sheet (CWT)

Visit our website at www.tycoelectronics.com**Table B. B-02X/B-04X Series part numbers**

The B-02X/B-04X series uses a one-piece design to terminate coaxial cables rated at 125°C minimum.

- Using Part 1 of this table, select the appropriate coaxial product group (1, 2, or 3) based on your RG cable number, Raychem cable description, or cable dimensions.
- Using Part 2 of this table, select the product part number based on the coaxial product group you selected in Part 1 and the appropriate preinstalled lead type you selected on the previous page.

Part 1: Coaxial product group selection

Typical compatible

part numbers

Dimension range (mm/in)

RG cable number	Raychem cable description	Jacket OD (max.)	Shield OD	Dielectric OD	Conductor OD	One-piece coaxial product group
RG178, RG404	5030A13XX 5028A13XX	3.4 (.134)	1.3–2.3 (.051–.091)	0.5–1.7 (.019–.067)	0.3–0.8 (.011–.032)	Group 1
RG179, RG316	5024A13XX 7530A13XX 7526A13XX 9530A13XX	4.4 (.173)	1.5–2.8 (.060–.110)	1.2–2.5 (.047–.100)	0.3–1.6 (.011–.063)	Group 2
RG180, RG302, RG303	9527A13XX 9528A13XX	6.3 (.248)	2.4–4.6 (.094–.181)	1.4–4.3 (.055–.169)	0.3–2.8 (.011–.110)	Group 3

Part 2: Product part number selection

One-piece coaxial product group	Preinstalled wire type	Preinstalled wire size					
		20 AWG	22 AWG	24 AWG	26 AWG	28 AWG	30 AWG
Group 1	Stranded (M22759)		B-044-22-N	B-044-24-N	B-044-26-N		
	Solid (M81822)			B-043-24-N	B-043-26-N	B-043-28-N	B-043-30-N
Group 2	Stranded (M22759)	B-040-20-N	B-040-22-N	B-040-24-N	B-040-26-N	B-040-28-N	B-040-30-N
	Solid (M81822)			B-041-24-N	B-041-26-N	B-041-28-N	B-041-30-N
Group 3	Stranded (M22759)	B-020-20-N	B-020-22-N	B-020-24-N	B-020-26-N		
	Solid (M81822)				B-021-26-N		

Product characteristics**Material**

Insulation (B-02X/B-04X)	Radiation-crosslinked, heat-shrinkable polyvinylidene fluoride (Kynar)
Insulation (CWT series)	Radiation-crosslinked, heat-shrinkable polyolefin
Solder and flux (B-02X/B-04X)	Solder: Sn63 Pb37 Flux: ROL 1 per ANSI-J-004 (RMA Flux)
Solder and flux (CWT series)	Solder: Sn50 Pb32 Cd 18 Flux: ROM 1 per ANSI-J-004 (RA Flux)

Typical performance

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 (B-02X/B-04X)	-55°C to 150°C
Insulation resistance	1000 megohms

Users should independently evaluate the suitability of the product for their application.

Before ordering check with factory for most current data.