

Before ordering check with factory for most current data.

PD Caps and TC Caps

Semirigid encapsulant-lined polyolefin caps (PD) and semirigid flame-retardant polyolefin caps (TC)

Applications

PD Caps offer an improved, inexpensive way to encapsulate crimped electrical connections, including those on motor coils. Encapsulant melts and flows to fill surface irregularities of the substrate. TC Caps are widely used for wire terminations because of their light weight, small size, and durability. These vibration-proof caps are used to insulate and terminate dead-end electrical cables, fixtures, connectors, and other electrical equipment.

Operating Temperature Range

PD: -55°C to 110°C
TC: -55°C to 135°C

Features/Benefits

- Shrink ratio of 3:1 (PD), 2:1 (TC).
- Permanent or temporary way to terminate wires.
- Rapid, simple installation.
- Rugged protection against abrasion, vibration, and flexing.
- PD caps provide a splash-resistant, moisture-resistant covering (but not intended for use where immersion in fluids is required).
- TC Caps are flame-retardant.

Installation

Minimum shrink temperature: 125°C (PD); 110°C (TC)
Minimum full recovery temperature: 135°C (PD); 125°C (TC)



Specifications/Approvals



Series	UL	Agency	Raychem
PD Caps	E85381 600 V, 125°C		PD Caps SCD
TC Caps	E85381 600 V, 125°C	AFS 2038	TC Caps SCD

Product Dimensions (mm/in)

PD Caps

Size	Length		Inside diameter		Wall thickness	
	Nominal overall as supplied	Minimum open barrel as supplied*	Minimum expanded as supplied	Maximum recovered after heating	Total recovered after heating**	
1/8	22.0 (.87)	12.7 (.50)	3.2 (.125)	0.58 (.023)	1.22 ±.15 (.048 ±.006)	
3/16	25.4 (1.00)	15.2 (.60)	4.8 (.187)	1.52 (.060)	1.57 ±.20 (.062 ±.008)	
1/4	28.4 (1.12)	15.2 (.60)	6.4 (.250)	2.03 (.080)	1.98 ±.20 (.078 ±.008)	
3/8	31.8 (1.25)	18.3 (.72)	9.5 (.375)	2.29 (.090)	2.08 ±.25 (.082 ±.010)	
1/2	38.1 (1.50)	21.6 (.85)	12.7 (.500)	2.29 (.090)	2.54 ±.25 (.100 ±.010)	

TC Caps

Part no.	Color	Length	Minimum open barrel as supplied*	Inside diameter	Maximum recovered after heating	Total recovered after heating**	
TC 4001	White (-9)	19.1 (.750)	10.2 (.400)	1.6 (.063)	0.8 (.030)	.51 ±.13 (.020 ±.005)	
TC 4003	Red (-2)	25.4 (1.000)	14.0 (.550)	3.2 (.125)	1.3 (.050)	.64 ±.13 (.025 ±.005)	
TC 4005	Gray (-8)	28.6 (1.125)	14.0 (.550)	6.4 (.250)	2.5 (.100)	.69 ±.13 (.027 ±.005)	

*See glossary for definition of "barrel."

**Wall thickness will be less if recovery is restricted during shrinkage.

Ordering Information

Color	Standard PD Caps Black (-0) TC Caps Three standard color-coded sizes (see Product Dimensions table)
Size selection	Always order the largest size that will shrink snugly over the component to be covered. Special order sizes are available upon request.
Standard packaging	In pieces.
Ordering description	Specify product name, size, and color (for example, PD Caps 1/4-0 or TC Caps 4005-0).

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