

Copper Tube: Types, Standards, Applications, Tempers, Lengths

Tube type	Color code	Standard	Application ¹	Commercially available lengths ²		
				Nominal or standard sizes	Drawn	Annealed
Type K	Green	ASTM B 88 ³	<ul style="list-style-type: none"> - Domestic water service and distribution - Fire protection <ul style="list-style-type: none"> - Solar - Fuel/fuel oil - HVAC - Snow melting - Compressed air <ul style="list-style-type: none"> - Natural gas - Liquefied petroleum (LP) gas <ul style="list-style-type: none"> - Vacuum 	Straight lengths:		
				1/4 inch to 8 inch	20 ft.	20 ft.
				10 inch	18 ft.	18 ft.
				12 inch	12 ft.	12 ft.
				Coils:		
				1/4 inch to 1 inch	–	60 ft.
					–	100 ft.
				1-1/4 inch and 1-1/2 inch	–	60 ft.
Type L	Blue	ASTM B 88	<ul style="list-style-type: none"> - Domestic water service and distribution - Fire protection <ul style="list-style-type: none"> - Solar - Fuel/fuel oil - Natural gas - Liquefied petroleum (LP) gas <ul style="list-style-type: none"> - HVAC - Snow melting - Compressed air <ul style="list-style-type: none"> - Vacuum 	Straight lengths:		
				1/4 inch to 10 inch	20 ft.	20 ft.
				12 inch	18 ft.	18 ft.
				Coils:		
				1/4 to 1 inch	–	60 ft.
					–	100 ft.
				1-1/4 inch to 1-1/2 inch	–	60 ft.
				2 inch	–	40 ft.
	–	45 ft.				
Type M	Red	ASTM B 88	<ul style="list-style-type: none"> - Domestic water service and distribution - Fire protection <ul style="list-style-type: none"> - Solar - Fuel/fuel oil - HVAC - Snow melting - Vacuum 	Straight lengths:		
				1/4 inch to 12 inch	20 ft.	N/A
DWV	Yellow	ASTM B 306	<ul style="list-style-type: none"> - Drain, waste, vent - HVAC - Solar 	Straight lengths:		
				1-1/4 inch to 8 inch	20 ft.	N/A
ACR	Blue	ASTM B 280	<ul style="list-style-type: none"> - Air conditioning - Refrigeration - Natural gas - Liquefied petroleum (LP) gas - Compressed air 	Straight lengths:		
				3/8 inch to 4-1/8 inch	20 ft.	4
				Coils:		
				1/8 inch to 1-5/8 inch	–	50 ft.
OXY, MED OXY/MED OXY/ACR ACR/MED	(K) Green (L) Blue	ASTM B 819	<ul style="list-style-type: none"> - Medical gas - Compressed medical air - Vacuum 	Straight lengths:		
				1/4 inch to 8 inch	20 ft.	N/A

¹ There are many other copper and copper alloy tubes and pipes available for specialized applications. For information on these products, contact the Copper Development Association, Inc.

² Individual manufacturers may have commercially available lengths in addition to those shown in this table.

³ Tube made to other ASTM standards is also intended for plumbing applications, although ASTM B 88 is by far the most widely used. ASTM Standard Classifications B 698 lists six plumbing tube standards including B 88.

⁴ Available as special order only.