

TOLERANCES, METRIC
Copper and Copper Alloy Wire

1. SCOPE: This specification covers established metric manufacturing tolerances applicable to copper and copper alloy wire ordered to metric (SI) dimensions. These tolerances apply to all conditions, unless otherwise noted.

1.1 AMS 2224, specified in inch/pound units, is the equivalent of this MAM.

2. DIAMETER OR THICKNESS:

2.1 Metallic Coated, Not Redrawn:

2.1.1 Round Only, Non-Refractory:

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TABLE I

Specified Diameter Millimetres	Tolerance, Millimetres	
	plus	minus
Up to 0.25, incl	0.003	0.003
Over 0.25	0.005	0.005

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2.2 Bare and Metallic Coated, Cold Drawn:2.2.1 Round, Hexagon, and Octagon:

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TABLE II

Specified Diameter or Distance Between Parallel Surfaces Millimetres	Tolerance, Millimetre, Plus and Minus			
	Non-Refractory		Refractory	
	Hexagon		Hexagon	
	Round	Octagon	Round	Octagon
Up to 0.25, incl	0.0025	--	0.005	--
Over 0.25 to 0.50, incl	0.0050	--	0.008	--
Over 0.50 to 0.75, incl	0.0075	--	0.013	--
Over 0.75 to 1.0, incl	0.0100	0.020	0.018	0.050
Over 1.0 to 1.2, incl	0.0125	0.025	0.020	0.075
Over 1.2 to 1.5, incl	0.0150	0.030	0.025	0.075
Over 1.5 to 2.0, incl	0.0200	0.040	0.040	0.10
Over 2.0 to 3.8, incl	0.0250	0.050	0.050	0.10
Over 3.8 to 12, incl	0.0380	0.075	0.050	0.10
Over 12 to 20, incl	0.0500	0.10	0.075	0.13

2.2.2 Square and Rectangular:

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TABLE III

Specified Thickness Millimetres	Tolerance, Millimetre, Plus and Minus					
	Width Ranges, Millimetres					
	Up to 12, incl			Over 12 to 32, incl		
	Non-Copper	Refractory	Refractory	Non-Copper	Refractory	Refractory
Up to 0.35, incl	0.025	0.025	0.040	0.035	0.035	0.050
Over 0.35 to 1.2, incl	0.033	0.033	0.040	0.040	0.040	0.050
Over 1.2 to 2.3, incl	0.040	0.040	0.050	0.050	0.050	0.075
Over 2.3 to 3.3, incl	0.050	0.050	0.075	0.065	0.065	0.10
Over 3.3 to 4.8, incl	0.075	0.075	0.10	0.090	0.090	0.11

3. WIDTH:3.1 Rectangular:

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TABLE IV

Specified Width Millimetres	Tolerance, Millimetre, Plus and Minus	
	Non-Refractory	Refractory
Up to 1.2, incl	0.033	0.040
Over 1.2 to 2.3, incl	0.040	0.050
Over 2.3 to 3.3, incl	0.052	0.075
Over 3.3 to 4.8, incl	0.075	0.10
Over 4.8 to 12, incl	0.090	0.13
Over 12 to 30, incl	0.13	0.18