

# Flat Wire Conductor Product Offering



IWG High Performance Conductors manufactures precision tolerance flat wire conductors utilizing the following materials:

- ETP Copper
- OF Copper
- Tensile-Flex® Alloy
- Cadmium-Copper Alloy
- CS-95® Alloy
- 35-EF
- Stainless Steel 304v

Product offering is available in Silver, Nickel and Tin platings. Precision tolerance flat wire is used in a wide variety of applications including:

- Computer
- Automotive
- Military & Commercial Aerospace
- Medical

\* Various spool sizes can be supplied to customer requirements

## Standard Tolerances for Copper (English Units)

Dimension	Minimum	Maximum
Width (Inches)	0.007	0.160
Thickness (Inches)	0.0010	0.0070
Aspect Ratio (Width / Thickness)	5:1	55:1

Thickness (Inches)	Tolerance (Inches)
0.0010 to 0.0014	+/- 0.00015
0.0015 to 0.0019	+/- 0.0003
0.0020 to 0.0049	+/- 0.0004
0.0050 to 0.0100	+/- 0.0005

Width (Inches)	Tolerance (Inches)
0.01 to 0.049	+/- 0.0013
0.050 to 0.069	+/- 0.0015
0.070 to 0.099	+/- 0.0020
0.100 to 0.124	+/- 0.0030
0.125 to 0.150	+/- 0.0040

## Standard Tolerances for Copper (SI units)

Dimension	Minimum	Maximum
Width (mm)	(0.178)	(4.06)
Thickness (mm)	(0.025)	(0.178)
Aspect Ratio (Width / Thickness)	5:1	55:1

Thickness (mm)	Tolerance (mm)
0.025 to 0.036	+/- 0.004
0.038 to 0.048	+/- 0.008
0.051 to 0.125	+/- 0.0010
0.127 to 0.254	+/- 0.013

Width (mm)	Tolerance (mm)
0.254 to 1.24	+/- 0.033
1.27 to 1.75	+/- 0.038
1.78 to 2.51	+/-0.051
2.54 to 3.15	+/- 0.076
3.18 to 3.81	+/- 0.102