



We Deliver Precision®

ULBRICH.COM

ULBRICH SPECIALTY WIRE PRODUCTS

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CAPABILITY SHEET

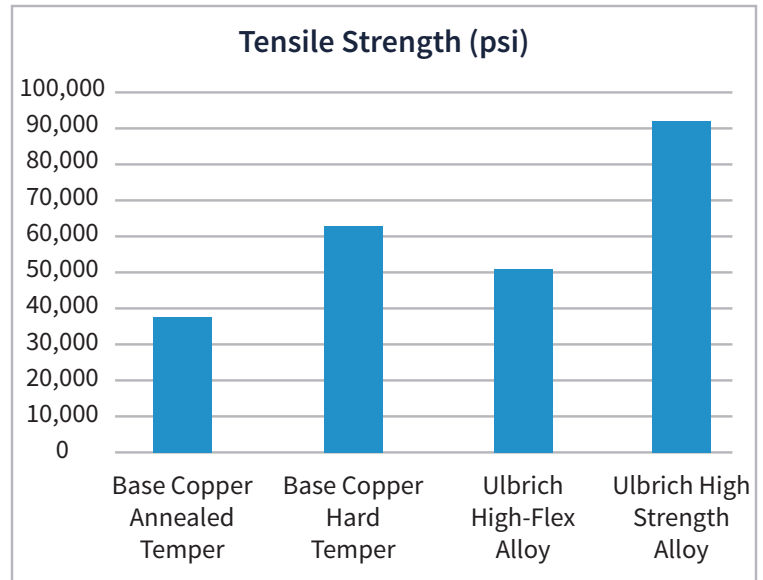
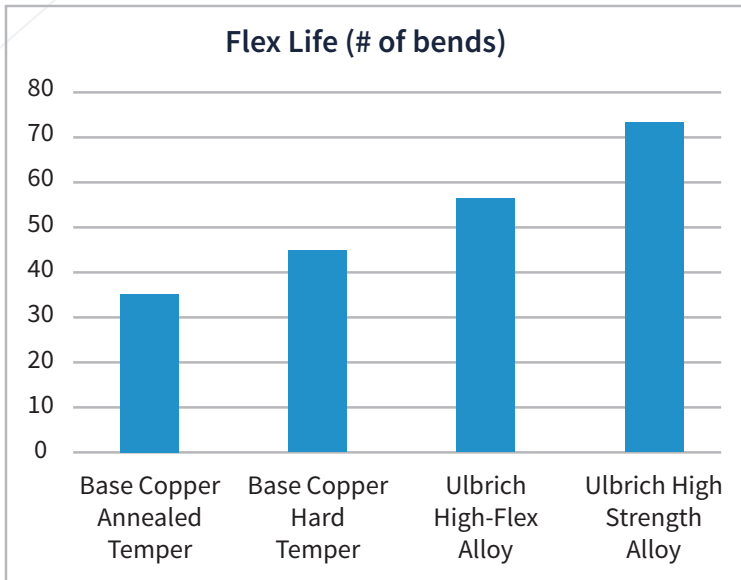
Ulbrich Specialty Alloys

Ulbrich High-Flex and High Strength RoHS Alloys

Applications: Braid and Center Conductor materials for RF and Microwave Cables

Ulbrich is committed to delivering high precision products, now with alternate copper alloys that can provide improved flex life and material strength. These materials are well suited for flat or round braid applications where a high-flex life is needed.

Flex Life and Strength: The addition of alloying agents can help improve the overall strength and flex life when compared to the base copper (C102) materials with a minimal loss of conductivity. Comparison data of measured flex life and tensile strength are shown below.



Property	Base Copper Annealed Temper	Base Copper Hard Temper	Ulbrich High-Flex Alloy	Ulbrich High Strength Alloy
Flex Life (# of bends)	35	45	56	73
Tensile Strength (psi)	37,500	63,000	51,000	92,400
Yield Strength (psi)	18,000	60,000	42,000	90,700
Elongation (%)	30	2	10	2
Conductivity (IACS%)	100	97	98	76