



MicroShield[®] Conductor Wire

Micro Shield, an alternative to stainless steel shielding, was engineered specifically for high strength coaxial shielding applications. It is a copper-nickel-tin alloy processed for both high strength and long flex life.

Key Attributes of Micro Shield

- Strong with tensile strengths in excess of 150,000 psi (1030 MPa or 105 kg/mm squared).
- Highly solderable
- Excellent resistance to corrosive environments.
- Has identical chemical, mechanical and electrical properties to CS-95.

Micro Shield is available bare or electroplated with nickel, silver or tin. And, in ultra-find gauges as single end wires or as multiple wire bobbins.

Physical Properties	
HARD DRAWN	
Tensile	150 ksi
Elongation	1%
Electrical Conductivity	10% IACS* @ 68°F
Electrical Resistivity	103.7 cir mil ohm/ft @ 68°F
Melting Point	1940°F
Density	0.321 lbs/in ³

Single End Constructions						
HARD TEMPER: BARE OR PLATED WITH NICKEL, SILVER OR TIN						
AWG	DIAMETER (inch)			RESISTANCE (Ω/mft)	WEIGHT (lb/mft)	BREAK STRG (lb)
	NOM	MIN	MAX	MAX	MAX	MIN
34	0.0063	0.0062	0.0064	2698	0.124	4.53
35	0.0056	0.0055	0.0057	3428	0.0983	3.56
36	0.0050	0.0049	0.0051	4319	0.0787	2.83
37	0.0045	0.0044	0.0046	5357	0.0640	2.28
38	0.0040	0.0039	0.0041	6819	0.0509	1.79
39	0.0035	0.0034	0.0036	8971	0.0392	1.36
40	0.0031	0.0030	0.0032	11523	0.0310	1.06
41	0.0028	0.0027	0.0029	14226	0.0254	0.859
42	0.0025	0.0024	0.0026	18005	0.0205	0.679
43	0.0022	0.0021	0.0023	23517	0.016	0.52
44	0.0020	0.0019	0.0021	28729	0.0133	0.425
45	0.00176	0.00166	0.00186	37636	0.0105	0.325
46	0.00157	0.00147	0.00167	47994	0.0084	0.255
47	0.0014	0.00130	0.0015	61367	0.0068	0.199
48	0.00124	0.00114	0.00134	79801	0.0054	0.153
49	0.00111	0.00101	0.00121	101667	0.0044	0.12
50	0.00099	0.00089	0.00109	130930	0.0036	0.093

Custom constructions are available, please contact the sales department

The information provided on this page is for reference purposes only.

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