

# TXXA01TXXX-1 RUBADUE WIRE



## Product Information

### Size Range:

20 AWG - 40 AWG

### Conductor:

Tin Plated Copper, Solid or Stranded (ASTM B-33/ASTM B-286)

Bare Copper and other conductors available

### Insulation:

DuPont™ Tefzel® ETFE

### Rating:

Temperature: 155°C

Voltage: 1000V

### Applications:

Thinnest TIW on the market

Size/Safety critical reinforced isolation

Pulse and signal transformers

### Compliances:

UL OBJT2 File No. E206198

UL 60950-1, Annex U

System approvals: UL 1446

RXT-2 Class F

TCA Class F

Other systems available upon request

RoHS Compliant

Tensile Strength: 6500 psi

Breakdown: Approx. 8500V

ETFE is a Fluoropolymer compound with excellent electrical properties, heat resistance, chemical resistance, and abrasion resistance. Commonly used in winding wires, UL AWM wires, and medical applications.

## Insulated Wire Information:

Part Number	AWG	CONDUCTOR		NOMINAL O.D.		Weight LB/ KFT
		Inches	MM	Inches	MM	
T20A01TXXX-1	20	0.0320	0.813	0.0380	0.97	3.33
T21A01TXXX-1	21	0.0285	0.724	0.0345	0.88	2.68
T22A01TXXX-1	22	0.0253	0.643	0.0313	0.80	2.14
T23A01TXXX-1	23	0.0226	0.574	0.0286	0.73	1.73
T24A01TXXX-1	24	0.0201	0.511	0.0261	0.66	1.38

Part Number	AWG	CONDUCTOR		NOMINAL O.D.		Weight LB/ KFT
		Inches	MM	Inches	MM	
T25A01TXXX-1	25	0.0179	0.455	0.0239	0.61	1.12
T26A01TXXX-1	26	0.0159	0.404	0.0219	0.56	0.90
T27A01TXXX-1	27	0.0142	0.361	0.0202	0.51	0.73
T28A01TXXX-1	28	0.0126	0.320	0.0186	0.47	0.59
T29A01TXXX-1	29	0.0113	0.287	0.0173	0.44	0.49
T30A01TXXX-1	30	0.0100	0.254	0.0160	0.41	0.39
T31A01TXXX-1	31	0.0089	0.226	0.0149	0.38	0.32
T32A01TXXX-1	32	0.0080	0.203	0.0140	0.36	0.27
T33A01TXXX-1	33	0.0071	0.180	0.0131	0.33	0.22
T34A01TXXX-1	34	0.0063	0.160	0.0123	0.31	0.19
T35A01TXXX-1	35	0.0055	0.140	0.0115	0.29	0.15
T36A01TXXX-1	36	0.0050	0.127	0.0110	0.28	0.13
T37A01TXXX-1	37	0.0045	0.114	0.0105	0.27	0.11
T38A01TXXX-1	38	0.0040	0.102	0.0100	0.25	0.10
T39A01TXXX-1	39	0.0053	0.135	0.0113	0.29	0.10
T40A01TXXX-1	40	0.0031	0.079	0.0091	0.23	0.07

### Bare Copper Wire Specifications:

AWG	Min. Dia.	Nom. Dia.	Max. Dia.	Min. Res.*	Nom. Res.	Max. Res.
20	0.0317	0.0320	0.0330	0.0975	0.1053	0.1108
21	0.0282	0.0285	0.0294	0.1229	0.1328	0.1400
22	0.0250	0.0253	0.0261	0.1559	0.1685	0.1781
23	0.0224	0.0226	0.0233	0.1956	0.2112	0.2219
24	0.0199	0.0201	0.0207	0.2478	0.2669	0.2811
25	0.0177	0.0179	0.0184	0.3137	0.3366	0.3554
26	0.0157	0.0159	0.0164	0.3948	0.4266	0.4517
27	0.0141	0.0142	0.0146	0.4982	0.5349	0.5600
28	0.0125	0.0126	0.0130	0.6283	0.6793	0.7125
29	0.0112	0.0113	0.0116	0.7892	0.8446	0.8875
30	0.0099	0.0100	0.0103	1.0009	1.0785	1.1359
31	0.0088	0.0089	0.0092	1.2546	1.3616	1.4376
32	0.0079	0.0080	0.0083	1.5414	1.6852	1.7838
33	0.0070	0.0071	0.0074	1.9392	2.1395	2.2720
34	0.0062	0.0063	0.0066	2.4378	2.7173	2.8962
35	0.0055	0.0056	0.0059	3.0506	3.4391	3.6803
36	0.0049	0.0050	0.0053	3.7803	4.3140	4.6368

<b>AWG</b>	<b>Min. Dia.</b>	<b>Nom. Dia.</b>	<b>Max. Dia.</b>	<b>Min. Res.*</b>	<b>Nom. Res.</b>	<b>Max. Res.</b>
37	0.0044	0.0045	0.0048	4.6089	5.3259	5.7505
38	0.0039	0.0040	0.0043	5.7431	6.7406	7.3195
39	0.0034	0.0035	0.0038	7.3539	8.8041	9.6306
40	0.0030	0.0031	0.0034	9.1860	11.2227	12.3700

\*ASTM B33 sets no standard for minimum resistance. This is only an indicator to investigate other aspects such as tin-thickness and tin coverage.