

# RUBADUEWIRE

## Basic (1 layer) Insulation PFA .003"

### Product Information

**Temperature Rating:** 180°C

**Insulation:** DuPont™ Teflon® PFA

**Compliances:** UL OBJT2 File No. E206198

UL/IEC 60950-1 (Ed.2), Annex U. UL 60601

VDE License Nr. 6716: Class H

RoHS Compliant

**Conductor:** Tin plated copper, Solid or Stranded (ASTM B-33/ASTM B-286)  
Bare copper and other conductors available

**Size Range:** UL: 28 AWG – 40 AWG

VDE: 14 AWG – 40 AWG

**Voltage:** UL: 600 V for electronic equipment

UL: 425 V for medical equipment

VDE: 600 V

**Breakdown:** Approx. 6000 V

**OD Tolerances:** 28 - 40 AWG +0.001"/-0.0005"

### Insulation Information:

**Insulation Type:** Fluoropolymer

**Dielectric Constant:** 2.03

**Abrasion Resistance:** Good

**Chemical Resistance:** Excellent

**Underground Resistance:** Excellent

**Thermal:** Continuous Operating Temperature, 260°C

**Tensile Strength (psi):** 3600

**Bondability:** Poor

**Water Resistance:** Excellent

**Long Term Stability:** Excellent

**UL Flammability Rating:** V-0

**Elongation (%):** 300

**UV Resistance:** Excellent

PFA is a Fluoropolymer compound with superior heat resistance, exceptional dielectric properties, and chemical resistance. Commonly used in TEFLON® applications requiring a higher operating temperature.

### Insulated Wire Information:

Part Number	AWG	Conductor OD		Insulated Wire OD		Weight LB/KFT
		Inches	MM	Inches	MM	
S28A01PX-3	28	0.0126	0.320	0.0186	0.472	0.62
S29A01PX-3	29	0.0113	0.287	0.0173	0.439	0.52
S30A01PX-3	30	0.0100	0.254	0.0160	0.406	0.42
S31A01PX-3	31	0.0089	0.226	0.0149	0.378	0.35
S32A01PX-3	32	0.0080	0.203	0.0140	0.356	0.29
S33A01PX-3	33	0.0071	0.180	0.0131	0.333	0.24
S34A01PX-3	34	0.0063	0.160	0.0123	0.312	0.20
S35A01PX-3	35	0.0056	0.142	0.0116	0.295	0.17
S36A01PX-3	36	0.0050	0.127	0.0110	0.279	0.15
S37A01PX-3	37	0.0045	0.114	0.0105	0.267	0.13
S38A01PX-3	38	0.0040	0.102	0.0100	0.254	0.11
S39A01PX-3	39	0.0035	0.089	0.0095	0.241	0.10
S40A01PX-3	40	0.0031	0.079	0.0091	0.231	0.08

## Bare Core Wire Specifications:

DCR per 10' @ 20°C

AWG	Core Wire Diameter			DC Resistance		
	Min. Dia.	Nom. Dia.	Max. Dia.	Min. Res.*	Nom. Res.	Max. Res.
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
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.