

RUBADUEWIRE

Supplementary (2 layer) Insulation FEP .002"/Layer

Product Information

Temperature Rating: 155°C

Insulation: DuPont™ Teflon® FEP

Compliances: UL OBJT2 File No. E206198

UL/IEC 60950-1 (Ed. 2);am1, Annex U

VDE License Nr. 6715: Class F

System approvals: UL 1446

RXT-2 Class F, TCA Class F

RoHS Compliant

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

Size Range: 10 AWG - 40 AWG

Voltage: UL: 600 V

VDE: 1000 V

Breakdown: Approx. 6000 V

OD Tolerances: 10- 24 AWG +0.0015"/-0.001"
25- 40 AWG +0.001"/-0.001"

Insulation Information:

Insulation Type: Fluoropolymer

Dielectric Constant: 2.03

Abrasion Resistance: Good

Chemical Resistance: Excellent

Underground Resistance: Excellent

Thermal: Continuous Operating Temperature, 200°C

Tensile Strength (psi): 3000+

Bondability: Poor

Water Resistance: Excellent

Long Term Stability: Excellent

UL Flammability Rating: V-0

Elongation (%): 300

UV Resistance: Excellent

FEP is a Fluoropolymer compound with exceptional dielectric properties, heat resistance, chemical resistance, and flexibility. Commonly used in winding wires, UL AWM wires, and cable jacketing.

Insulated Wire Information:

Part Number	AWG	Conductor OD		Insulated Wire OD		Weight LB/KFT
		Inches	MM	Inches	MM	
D18A01FXX-2	18	0.0403	1.024	0.0483	1.227	5.45
D18A19FXX-2	18(19/30)	0.0476	1.209	0.0556	1.412	6.49
D20A01FXX-2	20	0.0320	0.813	0.0400	1.016	3.52
D20A19FXX-2	20(19/32)	0.0385	0.978	0.0465	1.181	4.26
D22A01FXX-2	22	0.0253	0.643	0.0333	0.846	2.29
D22A19FXX-2	22(19/34)	0.0295	0.749	0.0375	0.953	2.73
D24A01FXX-2	24	0.0201	0.511	0.0281	0.714	1.51
D24A19FXX-2	24(19/36)	0.0242	0.615	0.0322	0.818	1.81
D25A01FXX-2	25	0.0179	0.455	0.0259	0.658	1.23
D26A01FXX-2	26	0.0159	0.403	0.0239	0.607	1.04
D27A01FXX-2	27	0.0142	0.361	0.0220	0.564	0.83
D28A01FXX-2	28	0.0126	0.320	0.0206	0.523	0.68
D29A01FXX-2	29	0.0113	0.287	0.0193	0.490	0.57
D30A01FXX-2	30	0.0100	0.254	0.0180	0.457	0.47
D31A01FXX-2	31	0.0089	0.226	0.0169	0.429	0.39
D32A01FXX-2	32	0.0080	0.203	0.0160	0.406	0.34
D33A01FXX-2	33	0.0071	0.180	0.0151	0.384	0.29
D34A01FXX-2	34	0.0063	0.160	0.0143	0.363	0.24
D35A01FXX-2	35	0.0056	0.142	0.0136	0.345	0.21
D36A01FXX-2	36	0.0050	0.127	0.0130	0.330	0.18
D37A01FXX-2	37	0.0045	0.114	0.0125	0.318	0.16
D38A01FXX-2	38	0.0040	0.102	0.0120	0.305	0.14
D39A01FXX-2	39	0.0035	0.089	0.0115	0.292	0.13
D40A01FXX-2	40	0.0031	0.079	0.0111	0.282	0.11

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.
18	0.0399	0.0403	0.0415	0.0617	0.0664	0.0699
19	0.0355	0.0359	0.0370	0.0776	0.0837	0.0883
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
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.