



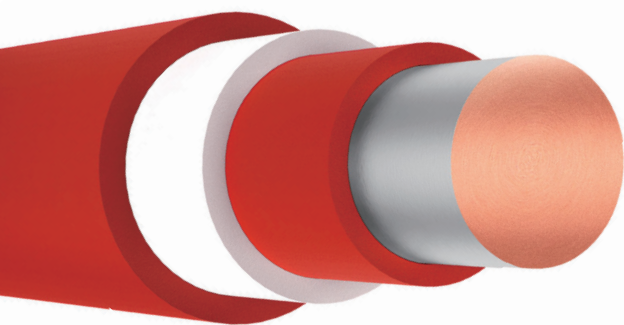
# Triple Insulated Wire

**RUBADUE WIRE WAS THE FIRST COMPANY TO DESIGN AND MANUFACTURE TRIPLE INSULATED WIRES.** Triple insulated wires can be used to meet several design requirements:

- Wind directly on top of magnet wire
- Wind bobbin wall to wall
- Use as primary or secondary winding
- Meet creepage and clearance requirements
- High voltage
- Applications requiring reinforced isolation
- Ground insulation in UL 1446 systems
- Leakage or loss reduction
- Transformer leadout between circuits
- Reduced space, volume, weight
- Increased safety
- High speed winding capable

Triple insulated wires can be manufactured in a variety of types, sizes, insulations, ratings, and colors.

Triple Insulated  
ETFE .001" / Layer



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**Chemours Tefzel® ETFE:** Fluoropolymer compound with excellent electrical properties, heat resistance, chemical resistance, and abrasion resistance.

**TCA - MODIFIED ETFE:** Designed for more economical /efficient manufacturing. Comes standard in one color, most sizes readily available.

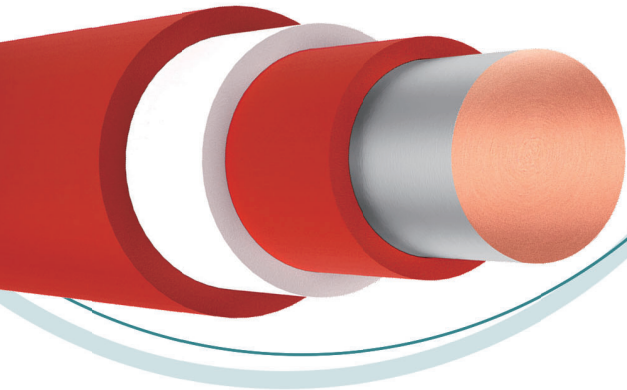
**CHEMOURS TEFLON® FEP:** Fluoropolymer compound with exceptional dielectric properties, heat resistance, chemical resistance, and flexibility.

**CHEMOURS TEFLON® PFA:** Fluoropolymer compound with superior heat resistance, exceptional dielectric properties, and chemical resistance.



# Triple Insulated

Chemours  
**TEFZEL® ETFE .001"/LAYER**



## Product Construction:

**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

**INSULATIONS:** Chemours Tefzel® ETFE

**RATING:** TEMPERATURE: 155°C | VOLTAGE: 1000 Vpk

### APPLICATIONS:

Thinnest TIW on the market  
Size/Safety critical reinforced isolation  
Pulse and signal transformers

### COMPLIANCES:

UL OBJT2 File No. E206198  
UL/IEC 62368-1, Annex J  
VDE License Nr. 136743: Class F

**SYSTEM APPROVALS:** UL 1446

- RXT-2 Class F
  - TCA Class F
  - Other systems available upon request
- RoHS Compliant

**TENSILE STRENGTH:** 6500 psi

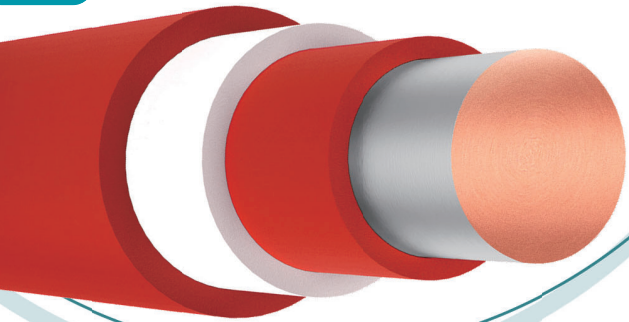
**BREAKDOWN:** Approx. 4500 V

PART NUMBER	AWG	CONDUCTOR		NOMINAL O.D.		WEIGHT LB/KFT
		INCHES	MM	INCHES	MM	
T20A01TXXX-1	20	0.0320	0.813	0.0380	0.965	3.33
T21A01TXXX-1	21	0.0285	0.724	0.0345	0.876	2.68
T22A01TXXX-1	22	0.0253	0.643	0.0313	0.795	2.14
T23A01TXXX-1	23	0.0226	0.574	0.0286	0.726	1.73
T24A01TXXX-1	24	0.0201	0.511	0.0261	0.663	1.38
T25A01TXXX-1	25	0.0179	0.455	0.0239	0.607	1.12
T26A01TXXX-1	26	0.0159	0.404	0.0219	0.556	0.90
T27A01TXXX-1	27	0.0142	0.361	0.0202	0.513	0.73
T28A01TXXX-1	28	0.0126	0.320	0.0186	0.472	0.59
T29A01TXXX-1	29	0.0113	0.287	0.0173	0.439	0.49
T30A01TXXX-1	30	0.0100	0.254	0.0160	0.406	0.39
T31A01TXXX-1	31	0.0089	0.226	0.0149	0.378	0.32
T32A01TXXX-1	32	0.0080	0.203	0.0140	0.356	0.27
T33A01TXXX-1	33	0.0071	0.180	0.0131	0.333	0.22
T34A01TXXX-1	34	0.0063	0.160	0.0123	0.312	0.18
T35A01TXXX-1	35	0.0056	0.142	0.0116	0.295	0.15
T36A01TXXX-1	36	0.0050	0.127	0.0110	0.279	0.13
T37A01TXXX-1	37	0.0045	0.114	0.0105	0.267	0.11
T38A01TXXX-1	38	0.0040	0.102	0.0100	0.254	0.10
T39A01TXXX-1	39	0.0035	0.089	0.0095	0.241	0.08
T40A01TXXX-1	40	0.0031	0.079	0.0091	0.231	0.07

# Triple Insulated

Chemours  
**TEFZEL® ETFE .0015"/LAYER**

TRIPLE  
INSULATED  
WIRES



## Product Construction:

**SIZE RANGE:** 14 AWG – 40 AWG  
Not all sizes listed in chart

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

**INSULATIONS:** Chemours Tefzel® ETFE

**RATING: TEMPERATURE:** 155°C

**VOLTAGE:** UL/VDE: 1500 Vpk for electronic equipment  
UL: 707 Vrms for medical equipment  
VDE: 1,000 Vrms (IEC 61558-1, IEC 61558-2-16)  
VDE: 700 Vpk for medical equipment  
VDE: 1000 Vpk for other certifications

### APPLICATIONS:

High power flyback converter for LED  
PDA's/Lighting  
Medical/Dental/Electronic

### COMPLIANCES:

UL OBJT2 File No. E206198  
UL/IEC 62368-1, Annex J  
UL 60601-1 (Ed. 3)  
IEC 61558-1, IEC 61558-2-16, 60601-1(Ed. 3), 61010-1(Ed. 3)  
VDE License Nr. 136743: Class F

**SYSTEM APPROVALS:** UL 1446

- RXT-2 Class F
  - TCA Class F
  - Other systems available upon request
- RoHS Compliant

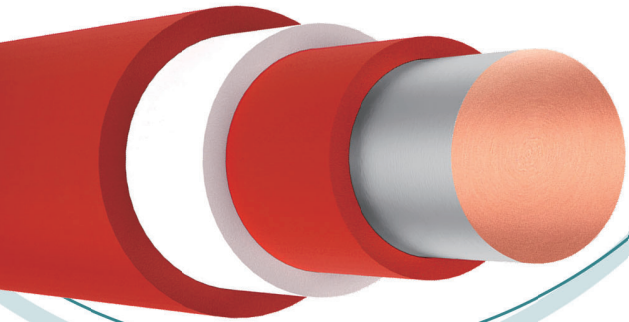
**TENSILE STRENGTH:** 6500 psi

**BREAKDOWN:** Approx. 7000 V

PART NUMBER	AWG	CONDUCTOR		NOMINAL O.D.		WEIGHT LB/KFT
		INCHES	MM	INCHES	MM	
T14A01TXXX-1.5	14	0.0641	1.628	0.0731	1.857	13.15
T16A01TXXX-1.5	16	0.0508	1.290	0.0598	1.519	8.39
T18A01TXXX-1.5	18	0.0403	1.024	0.0493	1.252	5.39
T20A01TXXX-1.5	20	0.0320	0.813	0.0410	1.041	3.47
T21A01TXXX-1.5	21	0.0285	0.724	0.0375	0.953	2.80
T22A01TXXX-1.5	22	0.0253	0.643	0.0343	0.871	2.25
T23A01TXXX-1.5	23	0.0226	0.574	0.0316	0.803	1.83
T24A01TXXX-1.5	24	0.0201	0.511	0.0291	0.739	1.48
T25A01TXXX-1.5	25	0.0179	0.455	0.0269	0.683	1.20
T26A01TXXX-1.5	26	0.0159	0.404	0.0249	0.632	0.98
T27A01TXXX-1.5	27	0.0142	0.361	0.0232	0.589	0.80
T28A01TXXX-1.5	28	0.0126	0.320	0.0216	0.549	0.66
T29A01TXXX-1.5	29	0.0113	0.287	0.0203	0.516	0.55
T30A01TXXX-1.5	30	0.0100	0.254	0.0190	0.483	0.45
T31A01TXXX-1.5	31	0.0089	0.226	0.0179	0.455	0.38
T32A01TXXX-1.5	32	0.0080	0.203	0.0170	0.432	0.32
T33A01TXXX-1.5	33	0.0071	0.180	0.0161	0.409	0.27
T34A01TXXX-1.5	34	0.0063	0.160	0.0153	0.389	0.23
T35A01TXXX-1.5	35	0.0056	0.142	0.0146	0.371	0.20
T36A01TXXX-1.5	36	0.0050	0.127	0.0140	0.356	0.17
T37A01TXXX-1.5	37	0.0045	0.114	0.0135	0.343	0.16
T38A01TXXX-1.5	38	0.0040	0.102	0.0130	0.330	0.14
T39A01TXXX-1.5	39	0.0035	0.089	0.0125	0.318	0.12
T40A01TXXX-1.5	40	0.0031	0.079	0.0121	0.307	0.11

# Triple Insulated

Chemours  
**TEFZEL® ETFE .002"/LAYER**



## Product Construction:

**SIZE RANGE:** 10 AWG - 36 AWG  
Not all sizes listed in chart

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

**INSULATIONS:** Chemours Tefzel® ETFE

**RATING: TEMPERATURE:** 155°C

**VOLTAGE:** UL/VDE: 1500 Vpk for electronic equipment  
UL: 707 Vrms for medical equipment  
VDE: 1,000 Vrms (IEC 61558-1, IEC 61558-2-16)  
VDE: 700 Vpk for medical equipment  
VDE: 1000 Vpk for other certifications

## APPLICATIONS:

Patient connected devices  
Renewable energy applications

## COMPLIANCES:

UL OBJT2 File No. E206198  
UL/IEC 62368-1, Annex J  
IEC 61558-1, IEC 61558-2-16, 60601-1 (Ed. 3), 61010-1 (Ed. 3)  
VDE License Nr. 136743: Class F

**SYSTEM APPROVALS:** UL 1446

- RXT-2 Class F
  - TCA Class F
  - Other systems available upon request
- RoHS Compliant

**TENSILE STRENGTH:** 6500 psi

**BREAKDOWN:** Approx. 9000 V

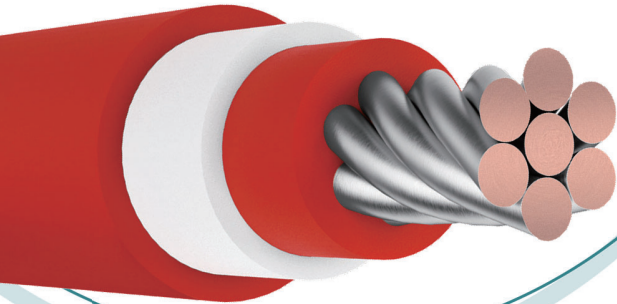
PART NUMBER	AWG	CONDUCTOR		NOMINAL O.D.		WEIGHT LB/KFT
		INCHES	MM	INCHES	MM	
T10A01TXXX-2	10	0.1019	2.588	0.1139	2.893	32.93
T12A01TXXX-2	12	0.0808	2.052	0.0928	2.357	20.97
T14A01TXXX-2	14	0.0641	1.628	0.0761	1.933	13.41
T16A01TXXX-2	16	0.0508	1.290	0.0628	1.595	8.60
T17A01TXXX-2	17	0.0453	1.151	0.0573	1.455	6.92
T18A01TXXX-2	18	0.0403	1.024	0.0523	1.328	5.56
T19A01TXXX-2	19	0.0359	0.912	0.0479	1.217	4.48
T20A01TXXX-2	20	0.0320	0.813	0.0440	1.118	3.62
T21A01TXXX-2	21	0.0285	0.724	0.0405	1.029	2.94
T22A01TXXX-2	22	0.0253	0.643	0.0373	0.947	2.37
T23A01TXXX-2	23	0.0226	0.574	0.0346	0.879	1.95
T24A01TXXX-2	24	0.0201	0.511	0.0321	0.815	1.58
T25A01TXXX-2	25	0.0179	0.455	0.0299	0.759	1.30
T26A01TXXX-2	26	0.0159	0.404	0.0279	0.709	1.07
T27A01TXXX-2	27	0.0142	0.361	0.0262	0.665	0.89
T28A01TXXX-2	28	0.0126	0.320	0.0246	0.625	0.74
T29A01TXXX-2	29	0.0113	0.287	0.0233	0.592	0.63
T30A01TXXX-2	30	0.0100	0.254	0.0220	0.559	0.53
T31A01TXXX-2	31	0.0089	0.226	0.0209	0.531	0.45
T32A01TXXX-2	32	0.0080	0.203	0.0200	0.508	0.39
T33A01TXXX-2	33	0.0071	0.180	0.0191	0.485	0.33
T34A01TXXX-2	34	0.0063	0.160	0.0183	0.465	0.29
T35A01TXXX-2	35	0.0056	0.142	0.0176	0.447	0.26
T36A01TXXX-2	36	0.0050	0.127	0.0170	0.432	0.23

TRIPLE  
INSULATED  
WIRES

# Triple Insulated

Chemours  
**TEFZEL® ETFE .003"/LAYER**

TRIPLE  
INSULATED  
WIRES



## Product Construction:

**SIZE RANGE:** UL: 10 AWG – 32 AWG  
VDE: 8 AWG – 32 AWG  
Not all sizes listed in chart

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

**INSULATIONS:** Chemours Tefzel® ETFE

**RATING: TEMPERATURE:** 155°C

**VOLTAGE:** UL/VDE: 1500 Vpk for electronic equipment  
UL: 707 Vrms for medical equipment  
VDE: 1,000 Vrms (IEC 61558-1, IEC 61558-2-16)  
VDE: 700 Vpk for medical equipment  
VDE: 1000 Vpk for other certifications

**APPLICATIONS:** Xenon arc lamps  
Lighting (CCFL)  
Medical/Power supply

### COMPLIANCES:

UL OBJT2 File No. E206198  
UL/IEC 62368-1, Annex J  
IEC 61558-1, IEC 61558-2-16, UL/  
IEC 60601-1 (Ed. 3), 61010-1(Ed. 3)  
VDE License Nr. 136743: Class F

**SYSTEM APPROVALS:** UL 1446

- RXT-2 Class F
  - TCA Class F
  - Other systems available upon request
- RoHS Compliant

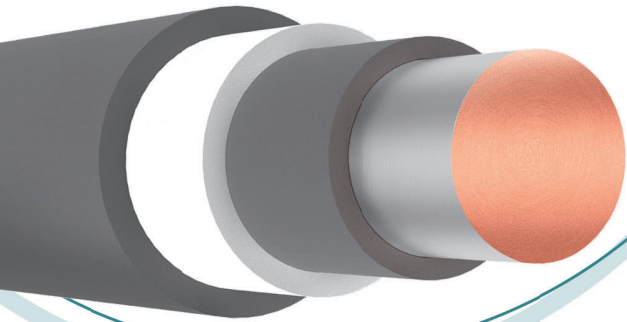
**TENSILE STRENGTH:** 6500 psi

**BREAKDOWN:** Approx. 13000 V

PART NUMBER	AWG	CONDUCTOR		NOMINAL O.D.		WEIGHT LB/KFT
		INCHES	MM	INCHES	MM	
T10A01TXXX-3	10	0.1019	2.588	0.1199	3.045	33.74
T10A37TXXX-3	10(37/26)	0.1070	2.718	0.1250	3.175	31.30
T12A01TXXX-3	12	0.0808	2.052	0.0988	2.510	21.67
T12A19TXXX-3	12(19/25)	0.0862	2.189	0.1042	2.647	20.78
T14A01TXXX-3	14	0.0641	1.628	0.0821	2.085	13.92
T14A19TXXX-3	14(19/27)	0.0679	1.725	0.0859	2.182	13.40
T16A01TXXX-3	16	0.0508	1.290	0.0688	1.748	9.06
T16A19TXXX-3	16(19/29)	0.0539	1.369	0.0719	1.826	8.77
T18A01TXXX-3	18	0.0403	1.024	0.0583	1.481	5.95
T18A19TXXX-3	18(19/30)	0.0476	1.209	0.0656	1.666	7.05
T20A01TXXX-3	20	0.0320	0.813	0.0500	1.270	3.94
T20A19TXXX-3	20(19/32)	0.0385	0.978	0.0565	1.435	4.74
T22A01TXXX-3	22	0.0253	0.643	0.0433	1.100	2.65
T22A19TXXX-3	22(19/34)	0.0295	0.749	0.0475	1.207	3.13
T24A01TXXX-3	24	0.0201	0.511	0.0381	0.968	1.83
T24A19TXXX-3	24(19/36)	0.0242	0.615	0.0422	1.072	2.16
T26A01TXXX-3	26	0.0159	0.404	0.0339	0.861	1.28
T28A01TXXX-3	28	0.0126	0.320	0.0306	0.777	0.93
T30A01TXXX-3	30	0.0100	0.254	0.0280	0.711	0.70
T32A01TXXX-3	32	0.0080	0.203	0.0260	0.660	0.55

# Triple Insulated

## TCA3



### Product Construction:

**SIZE RANGE:** 14 AWG - 40 AWG  
Not all sizes listed in chart

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

**INSULATIONS:** Modified ETFE

**RATING: TEMPERATURE:** 155°C

**VOLTAGE:** UL/VDE: 1500 Vpk for electronic equipment  
UL: 707 Vrms for medical equipment  
VDE: 700 Vpk for medical equipment  
VDE: 1000 Vpk for other certifications

**APPLICATIONS:** Various SMPS products  
Electronic/Medical/Dental

### COMPLIANCES:

UL OBJT2 File No. E206198  
UL/IEC 62368-1, Annex J  
IEC 61558-2-16, 60601-1 (Ed. 3), 61010-1 (Ed. 3)  
VDE License Nr. 40000223: Class F

**SYSTEM APPROVALS:** UL 1446

- RXT-2 Class F
  - TCA Class F
  - Other systems available upon request
- RoHS Compliant

**TENSILE STRENGTH:** 6500 psi

**BREAKDOWN:** Approx. 7000 V

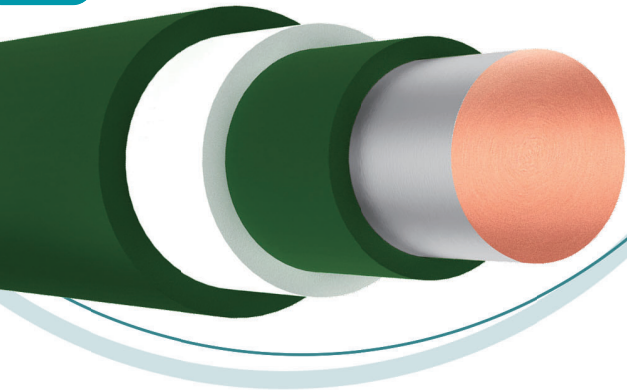
TCA3 products come standard in Gray

PART NUMBER	AWG	CONDUCTOR		NOMINAL O.D.		WEIGHT LB/KFT
		INCHES	MM	INCHES	MM	
<b>TCA3 18 AWG</b>	<b>18</b>	<b>0.0403</b>	<b>1.024</b>	<b>0.0493</b>	<b>1.252</b>	<b>5.39</b>
TCA3 19 AWG	19	0.0359	0.912	0.0449	1.140	4.32
<b>TCA3 20 AWG</b>	<b>20</b>	<b>0.0320</b>	<b>0.813</b>	<b>0.0410</b>	<b>1.041</b>	<b>3.47</b>
TCA3 21 AWG	21	0.0285	0.724	0.0375	0.953	2.80
<b>TCA3 22 AWG</b>	<b>22</b>	<b>0.0253</b>	<b>0.643</b>	<b>0.0343</b>	<b>0.871</b>	<b>2.25</b>
TCA3 23 AWG	23	0.0226	0.574	0.0316	0.803	1.83
<b>TCA3 24 AWG</b>	<b>24</b>	<b>0.0201</b>	<b>0.510</b>	<b>0.0291</b>	<b>0.739</b>	<b>1.48</b>
TCA3 25 AWG	25	0.0179	0.455	0.0269	0.683	1.20
<b>TCA3 26 AWG</b>	<b>26</b>	<b>0.0159</b>	<b>0.404</b>	<b>0.0249</b>	<b>0.632</b>	<b>0.98</b>
TCA3 27 AWG	27	0.0142	0.361	0.0232	0.589	0.80
<b>TCA3 28 AWG</b>	<b>28</b>	<b>0.0126</b>	<b>0.320</b>	<b>0.0216</b>	<b>0.549</b>	<b>0.66</b>
TCA3 29 AWG	29	0.0113	0.287	0.0203	0.516	0.55
<b>TCA3 30 AWG</b>	<b>30</b>	<b>0.0100</b>	<b>0.254</b>	<b>0.0190</b>	<b>0.483</b>	<b>0.45</b>
TCA3 31 AWG	31	0.0089	0.226	0.0179	0.455	0.38
<b>TCA3 32 AWG</b>	<b>32</b>	<b>0.0080</b>	<b>0.203</b>	<b>0.0170</b>	<b>0.432</b>	<b>0.32</b>
TCA3 33 AWG	33	0.0071	0.180	0.0161	0.409	0.27
<b>TCA3 34 AWG</b>	<b>34</b>	<b>0.0063</b>	<b>0.160</b>	<b>0.0153</b>	<b>0.389</b>	<b>0.23</b>
TCA3 35 AWG	35	0.0056	0.142	0.0146	0.371	0.20
<b>TCA3 36 AWG</b>	<b>36</b>	<b>0.0050</b>	<b>0.127</b>	<b>0.0140</b>	<b>0.356</b>	<b>0.17</b>
TCA3 37 AWG	37	0.0045	0.114	0.0135	0.343	0.16
<b>TCA3 38 AWG</b>	<b>38</b>	<b>0.0040</b>	<b>0.102</b>	<b>0.0130</b>	<b>0.330</b>	<b>0.14</b>
TCA3 39 AWG	39	0.0035	0.089	0.0125	0.318	0.12
<b>TCA3 40 AWG</b>	<b>40</b>	<b>0.0031</b>	<b>0.079</b>	<b>0.0121</b>	<b>0.307</b>	<b>0.11</b>

# Triple Insulated

FEP .002"/LAYER

TRIPLE INSULATED WIRES



## Product Construction:

**SIZE RANGE:** 10 AWG - 36 AWG

Not all sizes listed in chart

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

**INSULATIONS:** FEP

**RATING:** TEMPERATURE: 155°C | VOLTAGE: 1000 Vpk

**APPLICATIONS:** AC/DC adaptors  
Electronic/Medical/Dental

### COMPLIANCES:

UL OBJT2 File No. E206198

UL/IEC 62368-1, Annex J

IEC 61010-1 (Ed. 3)

VDE License Nr. 6715: Class F

**SYSTEM APPROVALS:** UL 1446

- RXT-2 Class F
- TCA Class F
- Other systems available upon request

RoHS Compliant

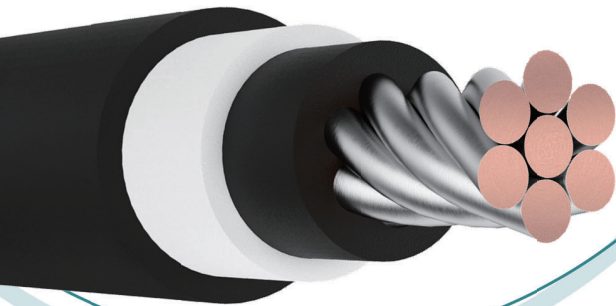
**TENSILE STRENGTH:** 3000 psi

**BREAKDOWN:** Approx. 9000 V

PART NUMBER	AWG	CONDUCTOR		NOMINAL O.D.		WEIGHT LB/KFT
		INCHES	MM	INCHES	MM	
T10A37FXXX-2	10 (37/26)	0.1070	2.718	0.1190	3.023	30.19
T12A19FXXX-2	12 (19/25)	0.0862	2.189	0.0982	2.494	19.97
T14A19FXXX-2	14 (19/27)	0.0679	1.725	0.0799	2.029	13.07
T16A01FXXX-2	16	0.0508	1.290	0.0628	1.595	8.81
T16A19FXXX-2	16 (19/29)	0.0539	1.369	0.0659	1.674	8.31
T18A01FXXX-2	18	0.0403	1.024	0.0523	1.328	5.75
T18A19FXXX-2	18(19/30)	0.0476	1.209	0.0596	1.514	6.83
T20A01FXXX-2	20	0.0320	0.813	0.0440	1.118	3.77
T20A19FXXX-2	20(19/32)	0.0385	0.978	0.0505	1.283	4.55
T22A01FXXX-2	22	0.0253	0.643	0.0373	0.947	2.50
T22A19FXXX-2	22(19/34)	0.0295	0.749	0.0415	1.054	2.97
T24A01FXXX-2	24	0.0201	0.511	0.0321	0.815	1.69
T24A19FXXX-2	24(19/36)	0.0242	0.615	0.0362	0.919	2.01
T25A01FXXX-2	25	0.0179	0.455	0.0299	0.759	1.40
T26A01FXXX-2	26	0.0159	0.404	0.0279	0.709	1.16
T27A01FXXX-2	27	0.0142	0.361	0.0262	0.665	0.97
T28A01FXXX-2	28	0.0126	0.320	0.0246	0.625	0.82
T29A01FXXX-2	29	0.0113	0.287	0.0233	0.592	0.70
T30A01FXXX-2	30	0.0100	0.254	0.0220	0.559	0.59
T31A01FXXX-2	31	0.0089	0.226	0.0209	0.531	0.51
T32A01FXXX-2	32	0.0080	0.203	0.0200	0.508	0.45
T33A01FXXX-2	33	0.0071	0.180	0.0191	0.485	0.39
T34A01FXXX-2	34	0.0063	0.160	0.0183	0.465	0.34
T35A01FXXX-2	35	0.0056	0.142	0.0176	0.447	0.30
T36A01FXXX-2	36	0.0050	0.127	0.0170	0.432	0.27

# Triple Insulated

FEP .003"/LAYER



## Product Construction:

**SIZE RANGE:** 10 AWG - 36 AWG

Not all sizes listed in chart

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

**INSULATIONS:** FEP

**RATING:** TEMPERATURE: 155°C | VOLTAGE: 1000 Vpk

**APPLICATIONS:** Power Supply/Transformer

### COMPLIANCES:

UL OBJT2 File No. E206198

UL/IEC 62368-1, Annex J

IEC 61010-1 (Ed. 3)

VDE License Nr. 6715: Class F

**SYSTEM APPROVALS:** UL 1446

- RXT-2 Class F
- TCA Class F
- Other systems available upon request

RoHS Compliant

**TENSILE STRENGTH:** 3000 psi

**BREAKDOWN:** Approx. 12000 V

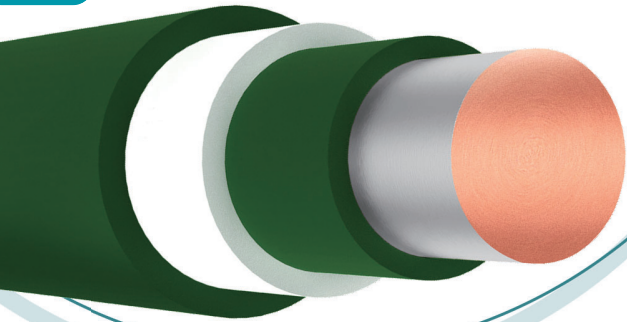
PART NUMBER	AWG	CONDUCTOR		NOMINAL O.D.		WEIGHT LB/KFT
		INCHES	MM	INCHES	MM	
T10A37FXXX-3	10(37/26)	0.1070	2.718	0.1250	3.175	32.01
T12A19FXXX-3	12(19/25)	0.0862	2.189 0	.1042	2.647	21.37
T14A19FXXX-3	14(19/27)	0.0679	1.725	0.0859	2.182	13.88
T16A01FXXX-3	16	0.0508	1.290	0.0688	1.748	9.42
T16A19FXXX-3	16(19/29)	0.0539	1.369	0.0719	1.826	9.19
T18A01FXXX-3	18	0.0403	1.024	0.0583	1.481	6.25
T18A19FXXX-3	18(19/30)	0.0476	1.209	0.0656	1.666	7.40
T20A01FXXX-3	20	0.0320	0.813	0.0500	1.270	4.20
T20A19FXXX-3	20(19/32)	0.0385	0.978	0.0565	1.435	5.03
T22A01FXXX-3	22	0.0253	0.643	0.0433	1.100	2.87
T22A19FXXX-3	22(19/34)	0.0295	0.749	0.0475	1.207	3.37
T24A01FXXX-3	24	0.0201	0.511	0.0381	0.968	2.01
T24A19FXXX-3	24(19/36)	0.0242	0.615	0.0422	1.072	2.37
T26A01FXXX-3	26	0.0159	0.404	0.0339	0.861	1.44
T26A19FXXX-3	26(19/38)	0.0190	0.483	0.0370	0.940	1.65
T28A01FXXX-3	28	0.0126	0.320	0.0306	0.777	1.06
T28A19FXXX-3	28(19/40)	0.0152	0.386	0.0332	0.843	1.22
T30A01FXXX-3	30	0.0100	0.254	0.0280	0.711	0.82



# Triple Insulated

FEP .005"/LAYER

TRIPLE INSULATED WIRES



## Product Construction:

**SIZE RANGE:** 10 AWG - 28 AWG

Not all sizes listed in chart

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

**INSULATIONS:** FEP

**RATING:** TEMPERATURE: 155°C | VOLTAGE: 1000 Vpk

## APPLICATIONS:

Battery charger  
Power supply lead outs

## COMPLIANCES:

UL OBJT2 File No. E206198  
UL/IEC 62368-1, Annex J  
IEC 61010-1 (Ed. 3)  
VDE License Nr. 6715: Class F

**SYSTEM APPROVALS:** UL 1446

- RXT-2 Class F
- TCA Class F
- Other systems available upon request

RoHS Compliant

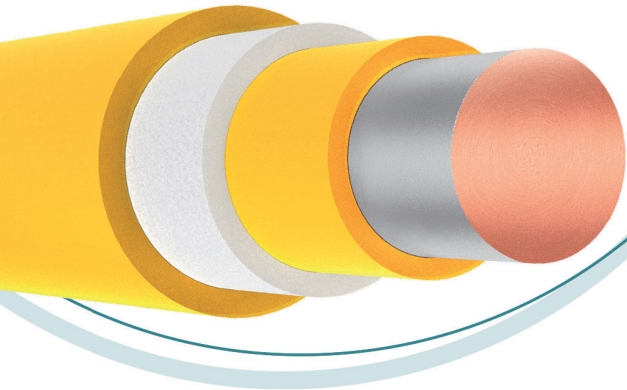
**TENSILE STRENGTH:** 3000 psi

**BREAKDOWN:** Approx. 15000 V

PART NUMBER	AWG	CONDUCTOR		NOMINAL O.D.		WEIGHT LB/KFT
		INCHES	MM	INCHES	MM	
T10A37FXXX-5	10(37/26)	0.1070	2.718	0.1370	3.480	34.37
T12A19FXXX-5	12(19/25)	0.0862	2.189	0.1162	2.951	23.35
T14A19FXXX-5	14(19/27)	0.0679	1.725	0.0979	2.487	15.53
T16A01FXXX-5	16	0.0508	1.290	0.0808	2.052	10.77
T16A19FXXX-5	16(19/29)	0.0539	1.369	0.0839	2.131	10.59
T18A01FXXX-5	18	0.0403	1.024	0.0703	1.786	7.41
T18A19FXXX-5	18(19/30)	0.0476	1.209	0.0776	1.971	8.69
T20A01FXXX-5	20	0.0320	0.813	0.0620	1.575	5.21
T20A19FXXX-5	20(19/32)	0.0385	0.978	0.0685	1.740	6.16
T22A01FXXX-5	22	0.0253	0.643	0.0553	1.405	3.75
T22A19FXXX-5	22(19/34)	0.0295	0.749	0.0595	1.511	4.33
T24A01FXXX-5	24	0.0201	0.511	0.0501	1.273	2.80
T24A19FXXX-5	24(19/36)	0.0242	0.615	0.0542	1.377	3.23
T26A01FXXX-5	26	0.0159	0.404	0.0459	1.166	2.16
T26A19FXXX-5	26(19/38)	0.0190	0.483	0.0490	1.245	2.42
T28A01FXXX-5	28	0.0126	0.320	0.0426	1.082	.72
T28A19FXXX-5	28(19/40)	0.0152	0.386	0.0452	1.148	1.93

# Triple Insulated

**PFA .0015"/LAYER**



## Product Construction:

**SIZE RANGE:** UL: 10 AWG - 40 AWG  
VDE: 14 AWG - 40 AWG  
Not all sizes listed in chart

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

**INSULATIONS:** PFA

**RATING: TEMPERATURE:** 180°C

**VOLTAGE:** UL/VDE: 1000 Vpk for electronic equipment  
VDE: 1000 Vrms (IEC 61558-1, IEC 61558-2-16)  
VDE: 600 Vrms for medical equipment  
VDE: 1000 Vpk for other certifications

## APPLICATIONS:

High temp power supplies  
Medical equipment  
Transformers

## COMPLIANCES:

UL OBJT2 File No. E206198  
UL/IEC 62368-1, Annex J  
VDE License Nr. 6716: Class H  
IEC 61558-1, IEC 61010-1 (Ed. 3), 61558-2-16, 60601-1 (Ed. 3)  
RoHS Compliant

**SYSTEM APPROVALS:** UL 1446

Information provided upon request

**TENSILE STRENGTH:** 3600 psi

**BREAKDOWN:** Approx. 8000 V

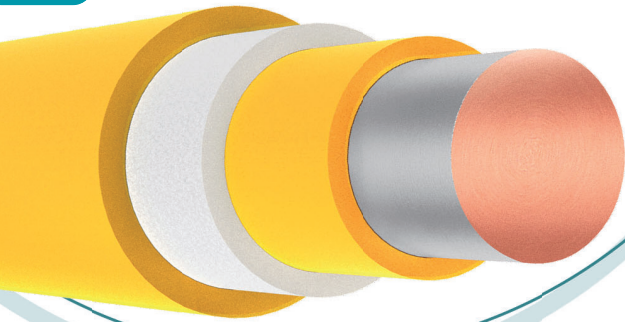
PART NUMBER	AWG	CONDUCTOR		NOMINAL O.D.		WEIGHT LB/KFT
		INCHES	MM	INCHES	MM	
T16A01PXXX-1.5	16	0.0508	1.290	0.0598	1.519	8.56
T17A01PXXX-1.5	17	0.0453	1.151	0.0543	1.379	6.88
T18A01PXXX-1.5	18	0.0403	1.024	0.0493	1.252	5.52
T19A01PXXX-1.5	19	0.0359	0.912	0.0449	1.140	4.45
T20A01PXXX-1.5	20	0.0320	0.813	0.0410	1.041	3.58
T21A01PXXX-1.5	21	0.0285	0.724	0.0375	0.953	2.91
T22A01PXXX-1.5	22	0.0253	0.643	0.0343	0.871	2.34
T23A01PXXX-1.5	23	0.0226	0.574	0.0316	0.803	1.92
T24A01PXXX-1.5	24	0.0201	0.511	0.0291	0.739	1.55
T25A01PXXX-1.5	25	0.0179	0.455	0.0269	0.683	1.27
T26A01PXXX-1.5	26	0.0159	0.404	0.0249	0.632	1.04
T27A01PXXX-1.5	27	0.0142	0.361	0.0232	0.589	0.86
T28A01PXXX-1.5	28	0.0126	0.320	0.0216	0.549	0.71
T29A01PXXX-1.5	29	0.0113	0.287	0.0203	0.516	0.60
T30A01PXXX-1.5	30	0.0100	0.254	0.0190	0.483	0.50
T31A01PXXX-1.5	31	0.0089	0.226	0.0179	0.455	0.42
T32A01PXXX-1.5	32	0.0080	0.203	0.0170	0.432	0.36
T33A01PXXX-1.5	33	0.0071	0.180	0.0161	0.409	0.31
T34A01PXXX-1.5	34	0.0063	0.160	0.0153	0.389	0.27
T35A01PXXX-1.5	35	0.0056	0.142	0.0146	0.371	0.23
T36A01PXXX-1.5	36	0.0050	0.127	0.0140	0.356	0.20
T37A01PXXX-1.5	37	0.0045	0.114	0.0135	0.343	0.18
T38A01PXXX-1.5	38	0.0040	0.102	0.0130	0.330	0.16
T39A01PXXX-1.5	39	0.0035	0.089	0.0125	0.318	0.15
T40A01PXXX-1.5	40	0.0031	0.079	0.0121	0.307	0.13

TRIPLE  
INSULATED  
WIRES

# Triple Insulated

PFA .002"/LAYER

TRIPLE INSULATED WIRES



## Product Construction:

**SIZE RANGE:** UL: 10 AWG - 32 AWG  
VDE: 14 AWG - 32 AWG  
Not all sizes listed in chart

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

**INSULATIONS:** PFA

**RATING: TEMPERATURE:** 180°C

**VOLTAGE:** UL/VDE: 1000 Vpk for electronic equipment  
VDE: 1000 Vrms (IEC 61558-1, IEC 61558-2-16)  
VDE: 600 Vrms for medical equipment  
VDE: 1000 Vpk for other certifications

### APPLICATIONS:

Lower partial discharge  
High temp power supplies  
Medical equipment

### COMPLIANCES:

UL OBJT2 File No. E206198  
UL/IEC 62368-1, Annex J  
IEC 61558-1, IEC 61558-2-16, 60601-1 (Ed.3)  
61010-1 (Ed. 3)  
VDE License Nr. 6716: Class H  
RoHS Compliant

**SYSTEM APPROVALS:** UL 1446

Information provided upon request

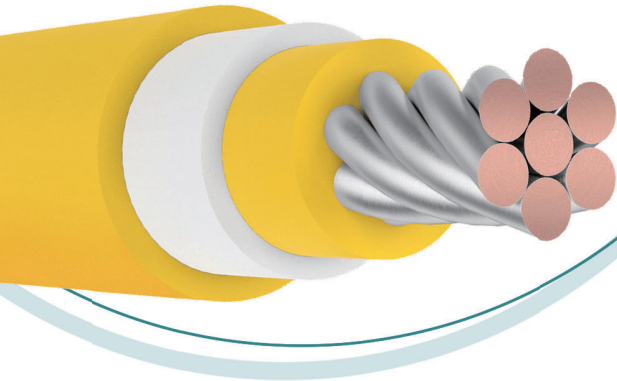
**TENSILE STRENGTH:** 3600 psi

**BREAKDOWN:** Approx. 10000 V

PART NUMBER	AWG	CONDUCTOR		NOMINAL O.D.		WEIGHT LB/KFT
		INCHES	MM	INCHES	MM	
<b>T10A01PXXX-2</b>	<b>10</b>	<b>0.1019</b>	<b>2.588</b>	<b>0.1139</b>	<b>2.893</b>	<b>33.33</b>
T10A37PXXX-2	10 (37/26)	0.1070	2.718	0.1190	3.023	30.19
<b>T12A01PXXX-2</b>	<b>12</b>	<b>0.0808</b>	<b>2.052</b>	<b>0.0928</b>	<b>2.357</b>	<b>21.29</b>
T12A19PXXX-2	12 (19/25)	0.0862	2.189	0.0982	2.494	19.97
<b>T14A01PXXX-2</b>	<b>14</b>	<b>0.0641</b>	<b>1.628</b>	<b>0.0761</b>	<b>1.933</b>	<b>13.67</b>
T14A19PXXX-2	14 (19/27)	0.0679	1.725	0.0799	2.029	13.07
<b>T16A01PXXX-2</b>	<b>16</b>	<b>0.0508</b>	<b>1.290</b>	<b>0.0628</b>	<b>1.595</b>	<b>8.81</b>
T16A19PXXX-2	16 (19/29)	0.0539	1.369	0.0659	1.674	8.31
<b>T18A01PXXX-2</b>	<b>18</b>	<b>0.0403</b>	<b>1.024</b>	<b>0.0523</b>	<b>1.328</b>	<b>5.75</b>
T19A01PXXX-2	19	0.0359	0.912	0.0479	1.217	4.65
<b>T20A01PXXX-2</b>	<b>20</b>	<b>0.0320</b>	<b>0.813</b>	<b>0.0440</b>	<b>1.118</b>	<b>3.77</b>
T21A01PXXX-2	21	0.0285	0.724	0.0405	1.029	3.08
<b>T22A01PXXX-2</b>	<b>22</b>	<b>0.0253</b>	<b>0.643</b>	<b>0.0373</b>	<b>0.947</b>	<b>2.50</b>
T23A01PXXX-2	23	0.0226	0.574	0.0346	0.879	2.06
<b>T24A01PXXX-2</b>	<b>24</b>	<b>0.0201</b>	<b>0.511</b>	<b>0.0321</b>	<b>0.815</b>	<b>1.69</b>
T25A01PXXX-2	25	0.0179	0.455	0.0299	0.759	1.40
<b>T26A01PXXX-2</b>	<b>26</b>	<b>0.0159</b>	<b>0.404</b>	<b>0.0279</b>	<b>0.709</b>	<b>1.16</b>
T27A01PXXX-2	27	0.0142	0.361	0.0262	0.665	0.97
<b>T28A01PXXX-2</b>	<b>28</b>	<b>0.0126</b>	<b>0.320</b>	<b>0.0246</b>	<b>0.625</b>	<b>0.82</b>
T29A01PXXX-2	29	0.0113	0.287	0.0233	0.592	0.70
<b>T30A01PXXX-2</b>	<b>30</b>	<b>0.0100</b>	<b>0.254</b>	<b>0.0220</b>	<b>0.559</b>	<b>0.59</b>
T31A01PXXX-2	31	0.0089	0.226	0.0209	0.531	0.51
<b>T32A01PXXX-2</b>	<b>32</b>	<b>0.0080</b>	<b>0.203</b>	<b>0.0200</b>	<b>0.508</b>	<b>0.45</b>

# Triple Insulated

**PFA .003"/LAYER**



## Product Construction:

**SIZE RANGE:** UL: 10 AWG - 30 AWG  
VDE: 14 AWG - 30 AWG  
Not all sizes listed in chart

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

**INSULATIONS:** PFA

**RATING: TEMPERATURE:** 180°C

**VOLTAGE:** UL/VDE: 1000 Vpk for electronic equipment  
VDE: 1000 Vrms (IEC 61558-1, IEC 61558-2-16)  
VDE: 600 Vrms for medical equipment  
VDE: 1000 Vpk for other certifications

## APPLICATIONS:

Microwaves  
Other high temp/high dielectric applications

## COMPLIANCES:

UL OBJT2 File No. E206198  
UL/IEC 62368-1, Annex J  
IEC 61558-1, IEC 61558-2-16, 60601-1 (Ed.3)  
61010-1 (Ed. 3)  
VDE License Nr. 6716: Class H  
RoHS Compliant

**SYSTEM APPROVALS:** UL 1446

Information provided upon request

**TENSILE STRENGTH:** 3600 psi

**BREAKDOWN:** Approx. 13000 V

PART NUMBER	AWG	CONDUCTOR		NOMINAL O.D.		WEIGHT LB/KFT
		INCHES	MM	INCHES	MM	
<b>T10A01PXXX-3</b>	<b>10</b>	<b>0.1019</b>	<b>2.588</b>	<b>0.1199</b>	<b>3.045</b>	<b>34.42</b>
T10A37PXXX-3	10 (37/26)	0.1070	2.718	0.125	03.175	31.26
<b>T12A01PXXX-3</b>	<b>12</b>	<b>0.0808</b>	<b>2.052</b>	<b>0.0988</b>	<b>2.510</b>	<b>22.22</b>
T12A19PXXX-3	12 (19/25)	0.0862	2.189	0.1042	2.647	20.86
<b>T14A01PXXX-3</b>	<b>14</b>	<b>0.0641</b>	<b>1.628</b>	<b>0.0821</b>	<b>2.085</b>	<b>14.37</b>
T15A01PXXX-3	15	0.0571	1.450	0.0751	1.908	11.65
<b>T16A01PXXX-3</b>	<b>16</b>	<b>0.0508</b>	<b>1.290</b>	<b>0.0688</b>	<b>1.748</b>	<b>9.42</b>
T17A01PXXX-3	17	0.0453	1.151	0.0633	1.608	7.68
<b>T18A01PXXX-3</b>	<b>18</b>	<b>0.0403</b>	<b>1.024</b>	<b>0.0583</b>	<b>1.481</b>	<b>6.25</b>
T19A01PXXX-3	19	0.0359	0.912	0.0539	1.369	5.11
<b>T20A01PXXX-3</b>	<b>20</b>	<b>0.0320</b>	<b>0.813</b>	<b>0.0500</b>	<b>1.270</b>	<b>4.20</b>
T21A01PXXX-3	21	0.0285	0.724	0.0465	1.181	3.47
<b>T22A01PXXX-3</b>	<b>22</b>	<b>0.0253</b>	<b>0.643</b>	<b>0.0433</b>	<b>1.100</b>	<b>2.87</b>
T23A01PXXX-3	23	0.0226	0.574	0.0406	1.031	2.40
<b>T24A01PXXX-3</b>	<b>24</b>	<b>0.0201</b>	<b>0.511</b>	<b>0.0381</b>	<b>0.968</b>	<b>2.01</b>
T25A01PXXX-3	25	0.0179	0.455	0.0359	0.912	1.70
<b>T26A01PXXX-3</b>	<b>26</b>	<b>0.0159</b>	<b>0.404</b>	<b>0.0339</b>	<b>0.861</b>	<b>1.44</b>
T27A01PXXX-3	27	0.0142	0.361	0.0322	0.818	1.24
<b>T28A01PXXX-3</b>	<b>28</b>	<b>0.0126</b>	<b>0.320</b>	<b>0.0306</b>	<b>0.777</b>	<b>1.06</b>
T29A01PXXX-3	29	0.0113	0.287	0.0293	0.744	0.94
<b>T30A01PXXX-3</b>	<b>30</b>	<b>0.0100</b>	<b>0.254</b>	<b>0.0280</b>	<b>0.711</b>	<b>0.82</b>