

FURUKAWATEX Series

**TEX-F**

**Triple Insulated Winding Wire**

**We can.**

Conductor

1st  
insulation  
layer

2nd  
insulation  
layer

3rd  
insulation  
layer

**FEATURES**

1. Temperature Index F type [155°C] (tested by IEC 172)
2. Ultra-thin three-fold insulation (100µm thick)
3. Wide size-choice from 0.2 to 1.0mm (diameter)
4. Superior high-frequency V-t characteristics

**Heritage Performance Plus**

Authorities of certification	Appointed specifications	Certificate(file) No.
UL	UL 1950	E206440
CSA	IEC 60950 IEC 60065 CSA 22.2 No.1 950	LR104155
TÜV-Rheinland	IEC 60950 EN 60950 IEC 60065 DIN VDE 0860 HD 195 S6	T 9251520
VDE	IEC 60950 DIN EN 60950 VDE 0805 IEC 60065 DIN EN 60065 VDE 0860	VDE-Reg.-Nr. 121263
BSI	IEC 60950 BS EN 60950 IEC 60065 BS EN 60065	8448 and 8449
NEMKO	IEC 60950 EN 60950	P99102025

(As of October 1, 2000)

<http://www.furukawa.co.jp/makisen/eng/index.html>

**FURUKAWA ELECTRIC**

FURUKAWATEX Series  
**TEX-F**  
 Triple Insulated Winding Wire



TEX-F is equipped with three-fold insulation of the POLYETHERSULPHONE resin fine-tuned with our know-how, which gives birth to superior high-frequency V-t characteristics.

● **CONSTRUCTION** ●  
 (Structure)

**TEX-F vs. TEX-E**

Item		TEX-F	TEX-E
Dimensions (mm)	Overall diameter	0.600	0.600
	Conductor diameter	0.400	0.400
	Insulation thickness	0.100	0.100
Dielectric breakdown voltage (kV)	Twisted pair	20<	20<
Solderability (sec)	420°C	Note	2
Spark test	3000V	0	0
Resistance to softening (°C)		268	231
Reciprocating scrape test (times)		1000<	285
Coefficient of static friction		0.14	0.12
IEC 60950 Annex U	U.2.1 Electric strength	Pass	Pass
	U.2.2 Adherence and Flexibility	Pass	Pass
	U.2.3 Heat shock	240°C for 30min. Pass	215°C for 30min. Pass
	U.2.4 Retention of electric strength after bending	Pass	Pass

**Dimensions(Typical)**

Nominal Conductor diameter (mm)	Typical O.D. (mm)	Max. O.D. (mm)	Max. Conductor resistance (Ω/km)	Nominal Weight (kg/km)
0.20	0.400	0.420	607.6	0.440
0.25	0.450	0.470	382.5	0.623
0.30	0.500	0.525	262.9	0.841
0.35	0.550	0.575	191.2	1.094
0.40	0.600	0.625	145.3	1.382
0.45	0.650	0.675	114.2	1.704
0.50	0.700	0.725	91.43	2.062
0.60	0.800	0.825	65.26	2.882
0.70	0.900	0.925	47.47	3.841
0.80	1.000	1.030	36.08	4.940
0.90	1.100	1.130	28.35	6.179
1.00	1.200	1.230	23.33	7.557

NOTES: TEX-F is not allowed to be soldered (non-solderable), unless stripped.

**Compatibility of TEX-F and solvent of insulating varnish**

Solvent type	Compatibility with TEX-F
Water	Fine (under adequate conditions)
Xylene	Marginal (not recommendable)
Naphtha	Fine (under adequate conditions)
Styrene	Impractical

Please confirm the compatibility of TEX-F and the insulating varnish in advance.

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The details of this pamphlet are subject to change without notice.

It should be noted that this pamphlet does not contain specifications for our wires, nor does its description guarantee the performance of your products.