

FURUKAWA TEX Series **NEW**

Class B Triple Insulated Wire

Class F Triple Insulated Wire

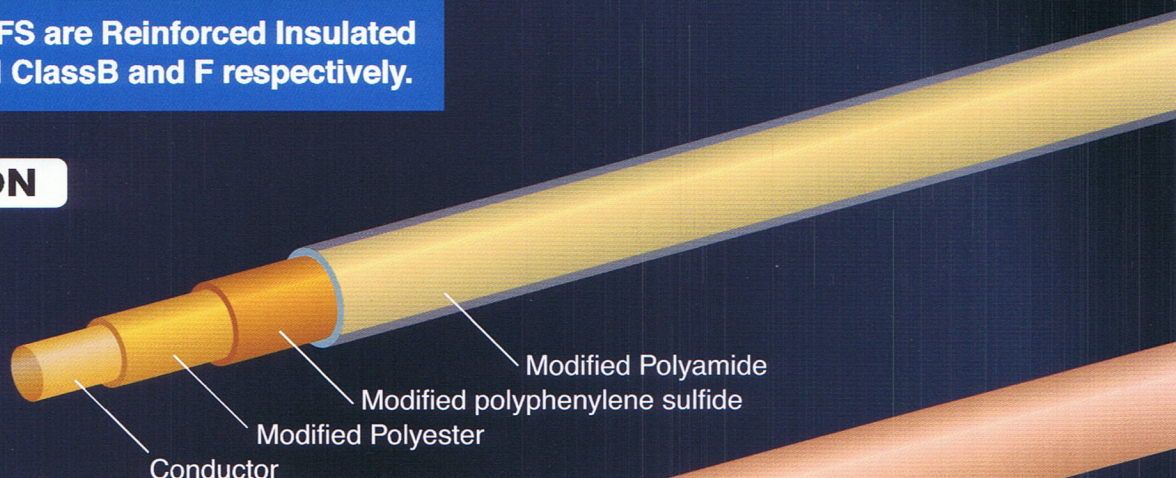
TEX-BS

TEX-FS

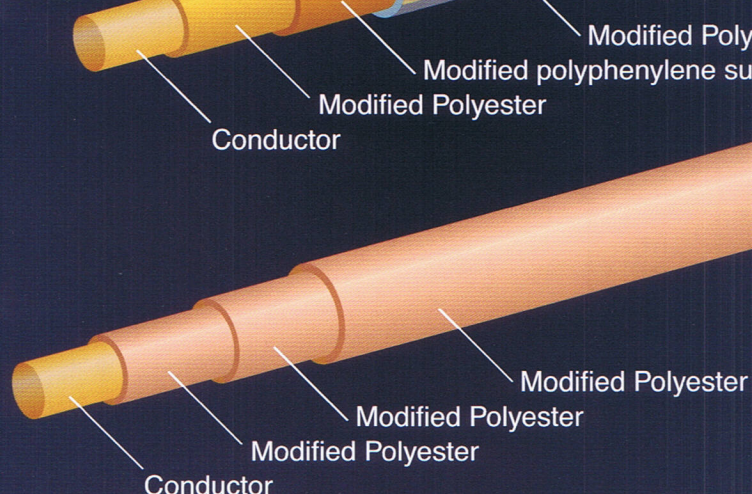
TEX-BS and TEX-FS are Reinforced Insulated Wire with thermal Class B and F respectively.

CONSTRUCTION

TEX-BS



TEX-FS



FEATURES

- Conforming to reinforced insulation according to IEC and UL
- Solderable without removing insulation
- It makes possible to reduce transformer size.
- Wide choice of conductor size from 0.20mm to 1.00mm
- Easy wire stripping (TEX-BS)

Safety Approvals

Certification Bodies	Standards	
	TEX-BS	TEX-FS
UL	UL1950 UL2353	UL1950 UL2353, UL60950-1 UL2353, IEC 60601-1 (Applied for UL)
VDE	IEC 60950-1 IEC 60065	IEC 60950-1 IEC 60065

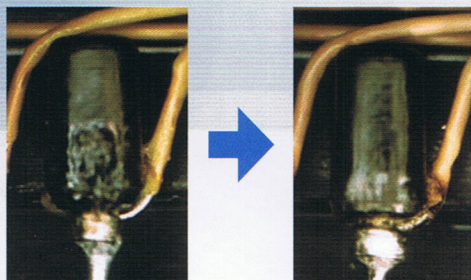
FURUKAWA ELECTRIC

TEX-BS TEX-FS



TEX-BS

Improved melt-up issue during soldering!



TEX-E

TEX-BS

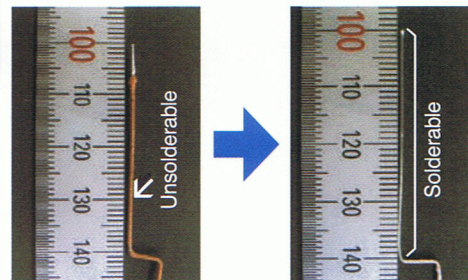
sample : $\varnothing$ 0.4mm
 soldering condition : 420°C 6sec

Easy to remove insulation by mechanical stripper!!



TEX-FS

Solderable w/o removing insulation!!



Competitor's
class F wire

TEX-FS

sample : $\varnothing$ 0.4mm
 soldering condition : 420°C 4sec
 dipping length : 40mm

● Characteristics (*) *Typical values, not specifications

Items	Chatacteristics	
	TEX-BS	TEX-FS
Breakdown Voltage	>15kVrms (typ.)	
Withstand Voltage	3000Vrms 1minute	
Soldering Condition (recommend)	420°C6sec ($\varnothing$ 0.4mm)	420°C4sec ($\varnothing$ 0.4mm)

● Test for Safety Standard (IEC 60950 Annex U)

Test Conditions	Requirement	
	TEX-BS	TEX-FS
U2.1 Electric Strength	6000 Vrms 1 minute (twisted pair)	
U2.2 Adherence and Flexibility	3000 Vrms 1 minute (mandrel)	
U2.3 Heat Shock	225°C x 30minutes 3000Vrms 1 minute (mandrel)	240°C x 30minutes 3000Vrms 1 minute (mandrel)
U2.4 Retention of Electric Strength after Bending	3000Vrms 1 minute (mandrel)	

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TEX-FS Dimensions

Nominal conductor diameter (mm)	Tolerance (mm)	Typical overall diameter (mm)	Maximum overall diameter (mm)	Maximum conductor resistance (Ω /km)	Unit Weight (kg/km)
0.20	± 0.008	0.400	0.417	607.6	0.391
0.23	± 0.008	0.430	0.447	454.5	0.492
0.25	± 0.008	0.450	0.467	382.5	0.567
0.30	± 0.010	0.500	0.520	262.9	0.778
0.32	± 0.010	0.520	0.540	230.0	0.873
0.35	± 0.010	0.550	0.570	191.2	1.024
0.37	± 0.010	0.570	0.590	170.6	1.133
0.40	± 0.010	0.600	0.625	145.3	1.306
0.45	± 0.010	0.650	0.675	114.2	1.621
0.50	± 0.010	0.700	0.725	91.43	1.972
0.55	± 0.020	0.750	0.775	78.15	2.358
0.60	± 0.020	0.800	0.825	65.26	2.779
0.65	± 0.020	0.850	0.875	55.31	3.234
0.70	± 0.020	0.900	0.925	47.47	3.725
0.75	± 0.020	0.950	0.975	41.19	4.251
0.80	± 0.020	1.000	1.030	36.08	4.811
0.85	± 0.020	1.050	1.080	31.87	5.406
0.90	± 0.020	1.100	1.130	28.35	6.036
0.95	± 0.020	1.150	1.180	25.38	6.701
1.00	± 0.030	1.200	1.230	23.33	7.401

(Reference Values)

Note: All the above values are shown just for reference and may differ slightly from batch to batch.

Tex-BS Dimensions

Nominal conductor diameter (mm)	Tolerance (mm)	Typical overall diameter (mm)	Maximum overall diameter (mm)	Maximum conductor resistance (Ω /km)	Unit Weight (kg/km)
0.20	± 0.008	0.400	0.417	607.6	0.398
0.23	± 0.008	0.430	0.447	454.5	0.499
0.25	± 0.008	0.450	0.467	382.5	0.575
0.30	± 0.010	0.500	0.520	262.9	0.787
0.32	± 0.010	0.520	0.540	230.0	0.882
0.35	± 0.010	0.550	0.570	191.2	1.034
0.37	± 0.010	0.570	0.590	170.6	1.143
0.40	± 0.010	0.600	0.625	145.3	1.316
0.45	± 0.010	0.650	0.675	114.2	1.633
0.50	± 0.010	0.700	0.725	91.43	1.985
0.55	± 0.020	0.750	0.775	78.15	2.371
0.60	± 0.020	0.800	0.825	65.26	2.793
0.65	± 0.020	0.850	0.875	55.31	3.249
0.70	± 0.020	0.900	0.925	47.47	3.741
0.75	± 0.020	0.950	0.975	41.19	4.267
0.80	± 0.020	1.000	1.030	36.08	4.828
0.85	± 0.020	1.050	1.080	31.87	5.424
0.90	± 0.020	1.100	1.130	28.35	6.055
0.95	± 0.020	1.150	1.180	25.38	6.721
1.00	± 0.030	1.200	1.230	23.33	7.422

(Reference Values)

Note: All the above values are shown just for reference and may differ slightly from batch to batch.