

All to brighten the world

FURUKAWA
ELECTRIC

古河电工TEX系列B种3层绝缘电线

FURUKAWA TEX Series Class B Triple Insulated Winding Wire

TEX-E™



特长 FEATURES

- 具有IEC, UL规定的强化绝缘机能。
- 电线单体的耐热等级为B种 (130℃)*¹。
- 最大动作电压为1000Vrms*²。
- 可以直接进行软铅焊。
- 导体直径为0.20 ~ 1.0mm。

*1 在UL情况下, 超越A种的设计, 需要具有UL1446规定的绝缘系统。

*2 在IEC 62368-1安规条件下, 以每分钟3000Vrms的耐压试验所定义的数值。

- Conforming to reinforced insulation according to IEC and UL
- Thermal index Class B (130℃)*¹
- Rated at 1000 Vrms*² for maximum working voltage
- Solderable
- Conductor size-choice from 0.2 to 1.0 mm

*1 UL requires an insulation system specified by UL 1446, for a design of operation exceeding the temperature in class A.

*2 This value is defined by a withstand voltage test at 3000 Vrms for 1 minute in IEC 62368-1.

安全规格 SAFETY APPROVALS

认证机关 Certification Bodies	规格 Standards
UL	UL 2353 / UL 60950-1 UL 60601-1 / UL 61800-5-1
CSA	ANCI/UL62368-1 CSA C22.2 No. 62368-1
BSi	EN 62368-1
NEMKO	IEC/EN 62368-1
TÜV	EN 62368-1
VDE	IEC/EN 62368-1 IEC/EN 61558-1 IEC/EN 60601-1

关于各个认证机关的认定条件, 请咨询我们。

Contact us regarding the certification conditions for each authorities.

► 变压器尺寸规格比较 (容量相同)

Size comparison (transformer of capacity equivalent)

小型化! 轻量化!
Downsizing!



使用UEW漆包线的变压器
Conventional Type with "UEW"

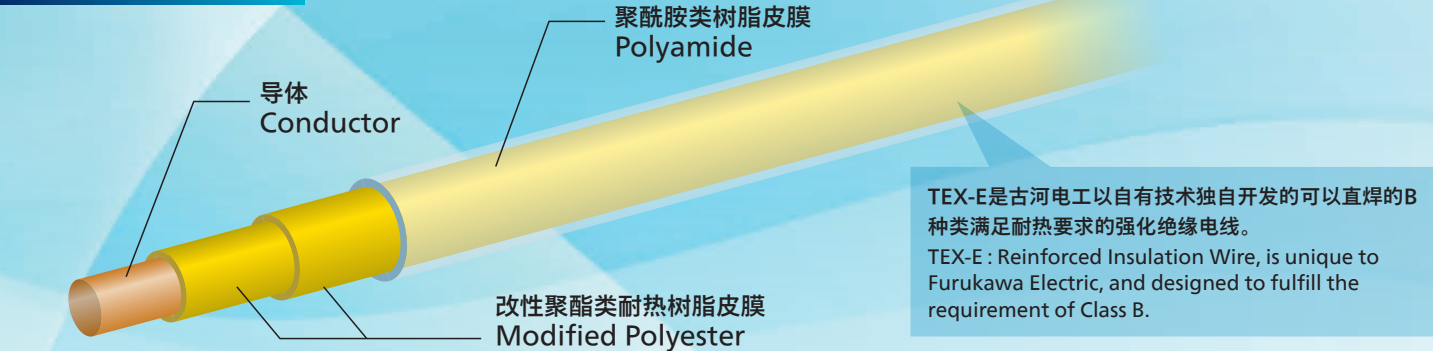
使用TEX-E线的变压器
New Type with "TEX-E"

2016年5月, TEX-E取得了IEC 61558-1的安规认证。追加取得IEC 61558-1的安规认证, 意味着产品适用于IEC 60335-1(家电)、IEC 61347-2-13 (LED照明用电源) 变得更容易了。
In May, 2016, TEX-E has acquired a certificate of IEC 61558-1.
By acquisition of IEC 61558-1, application to IEC 60335-1 (Household), IEC 61347-2-13 (LED light) become easy.

TEX-E™



构造 CONSTRUCTION



特性 CHARACTERISTICS

项目 Items	特性 Characteristics
绝缘击穿电压 (kVrms) Breakdown Voltage (kVrms)	双股绞合 Twisted Pair 20<sup>*
耐电压 Withstanding Voltage	1分钟4200Vrms 4200 Vrms for 1 min 合格 Pass
焊锡温度420℃ (秒) *2 Solderability at 420℃ (sec) *2	0.20 - 0.40 mm 4 0.45 - 0.70 mm 6 0.75 - 1.00 mm 10

*1 为界限数值，并非是使用上限数值。
*2 焊锡加工时请使空气充分流通。
*1 Limit value, not specification.
*2 Note that your solder shop would preferably be ventilated.

安全规格 SAFETY APPROVALS

IEC 61558-1 Annex K	K.2.2 绝缘耐压 Electric Strength	1分钟8400Vrms 双股绞合 8400 Vrms for 1 min Twisted pair	合格 Pass
	K.2.3 粘性、可挠性 Adherence and Flexibility	1分钟4200Vrms 芯棒单股绕线 4200 Vrms for 1 min Mandrel	合格 Pass
	K.2.4 高温击穿 Heat Shock	225℃ × 30分 1分钟4200Vrms 芯棒单股绕线 225℃ for 30 min 4200 Vrms for 1 min Mandrel	合格 Pass
	K.2.5 弯曲后绝缘强度 Retention of Electric Strength after Bending	1分钟4200Vrms 芯棒单股绕线 4200 Vrms for 1 min Mandrel	合格 Pass

▶▶ 商品详情请参阅以下网站 About Products
<https://www.furukawaelectric.com/tex-e/cn/>
<https://www.furukawaelectric.com/tex-e/en/>



尺寸 DIMENSIONS

导体称呼直径 (mm) Nominal Conductor Diameter	公差 (mm) Tolerance	标称成品外径 (mm) Typical O.D.	标称最大外径 (mm) Max. O.D.	最大导体阻抗 at 20℃ (Ω/km) Max. Conductor Resistance	产品重量 (kg/km) Weight
0.20	±0.008	0.400	0.417	607.6	0.398
0.21	±0.008	0.410	0.427	549.0	0.431
0.22	±0.008	0.420	0.437	498.4	0.465
0.23	±0.008	0.430	0.447	454.5	0.500
0.24	±0.008	0.440	0.457	416.2	0.537
0.25	±0.008	0.450	0.467	382.5	0.575
0.26	±0.010	0.460	0.477	358.4	0.616
0.27	±0.010	0.470	0.487	331.4	0.656
0.28	±0.010	0.480	0.497	307.3	0.697
0.29	±0.010	0.490	0.507	285.7	0.742
0.30	±0.010	0.500	0.520	262.9	0.786
0.32	±0.010	0.520	0.540	230.0	0.882
0.35	±0.010	0.550	0.570	191.2	1.033
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	4.829
0.85	±0.020	1.050	1.080	31.87	5.425
0.90	±0.020	1.100	1.130	28.35	6.056
0.95	±0.020	1.150	1.180	25.38	6.721
1.00	±0.030	1.200	1.230	23.33	7.422

参考値 Reference value

FURUKAWA ELECTRIC CO., LTD.

<https://www.furukawaelectric.com/cn/>



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