

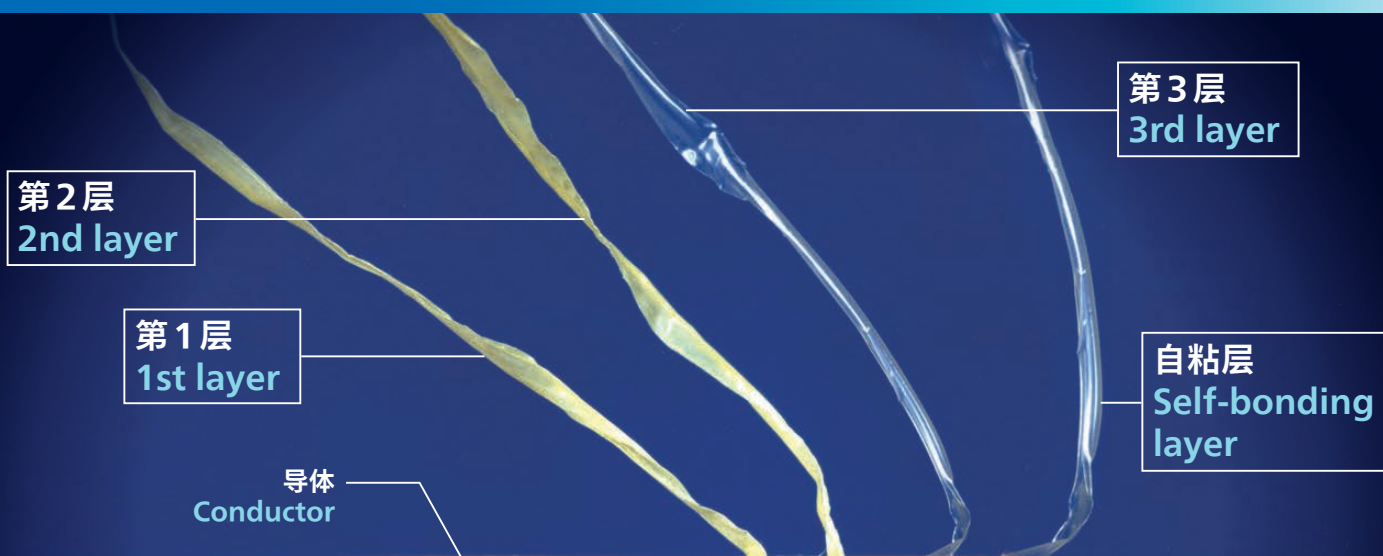
All to brighten the world

FURUKAWA
ELECTRIC

古河电工TEX系列B种自粘3层绝缘电线

FURUKAWA TEX Series Class B Triple Insulated Winding Wire

TEX-ECEW3



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°C)^{*1}。
- 最大动作电压为1000Vrms^{*2}。
- 可以直接进行软铅焊。
- 附加有自粘性的类型。

^{*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°C)^{*1}
- Rated at 1000 Vrms^{*2} for maximum working voltage
- Solderable
- Equipped with a self-bonding layer on the surface of standard type TEX-E wire

^{*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
TÜV	EN 62368-1

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.

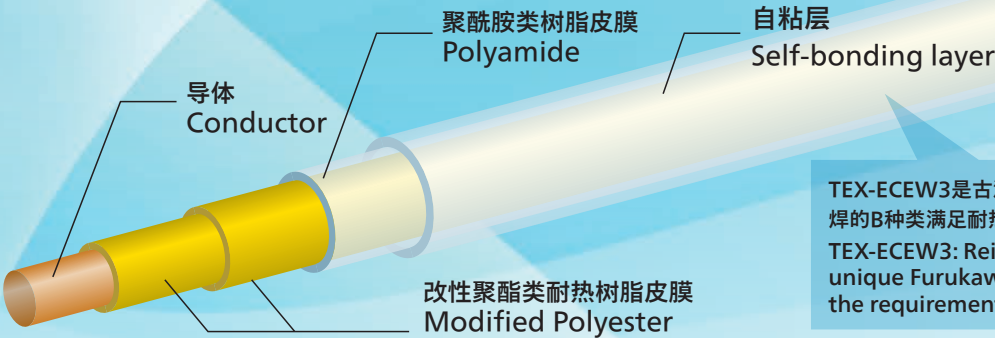
应用例子 Applications



TEX-ECEW3



构造 CONSTRUCTION



TEX-ECEW3是古河电工以自有技术独自开发的可以直焊的B种类满足耐热要求的强化绝缘电线。
TEX-ECEW3: Reinforced Insulation Wire, is unique Furukawa Electric, and designed to fulfill the requirement of Class B.

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>*1
耐电压 Withstanding Voltage	1分钟3000Vrms 3000 Vrms for 1 min 合格 Pass
焊锡温度420°C (秒) ^{*2} Solderability at 420°C (sec) ^{*2}	0.20 - 0.40 mm 5
	0.45 - 0.70 mm 8
	0.75 - 1.00 mm 12

*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 J	J2.2 绝缘耐压 Electric Strength	1分钟6000Vrms 双股绞合 6000 Vrms for 1 min Twisted pair	合格 Pass
	J2.3 粘性、可挠性 Adherence and Flexibility	1分钟3000Vrms 芯棒单股绕线 3000 Vrms for 1 min Mandrel	合格 Pass
	J2.4 高温击穿 Heat Shock	225°C × 30分 1分钟3000Vrms 芯棒单股绕线 225°C for 30 min 3000 Vrms for 1 min Mandrel	合格 Pass
	J2.5 弯曲后绝缘强度 Retention of Electric Strength after Bending	1分钟3000Vrms 芯棒单股绕线 3000 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) Standard O.D.	标称最大 外径 (mm) Max. O.D.	最大导体阻抗 at 20°C (Ω/km) Max. Conductor Resistance	产品重量 (kg/km) Weight
0.20	±0.008	0.420	0.460	607.6	0.409
0.21	±0.008	0.430	0.470	549.0	0.444
0.22	±0.008	0.440	0.480	498.4	0.478
0.23	±0.008	0.450	0.490	454.5	0.513
0.24	±0.008	0.460	0.510	416.2	0.550
0.25	±0.008	0.470	0.510	382.5	0.588
0.26	±0.010	0.480	0.520	358.4	0.628
0.27	±0.010	0.490	0.530	331.4	0.669
0.28	±0.010	0.500	0.540	307.3	0.713
0.29	±0.010	0.510	0.550	285.7	0.756
0.30	±0.010	0.520	0.560	262.9	0.802
0.32	±0.010	0.540	0.580	230.0	0.897
0.35	±0.010	0.570	0.610	191.2	1.050
0.37	±0.010	0.590	0.630	170.6	1.160
0.40	±0.010	0.640	0.680	145.3	1.353
0.45	±0.010	0.690	0.730	114.2	1.673
0.50	±0.010	0.740	0.780	91.43	2.028
0.55	±0.020	0.790	0.830	78.15	2.417
0.60	±0.020	0.840	0.880	65.26	2.842
0.65	±0.020	0.890	0.930	55.31	3.302
0.70	±0.020	0.940	0.980	47.47	3.796
0.75	±0.020	0.990	1.030	41.19	4.325
0.80	±0.020	1.040	1.080	36.08	4.890
0.85	±0.020	1.090	1.130	31.87	5.488
0.90	±0.020	1.140	1.180	28.35	6.123
0.95	±0.020	1.190	1.230	25.38	6.719
1.00	±0.030	1.240	1.280	23.33	7.495

Reference value 参考值

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



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