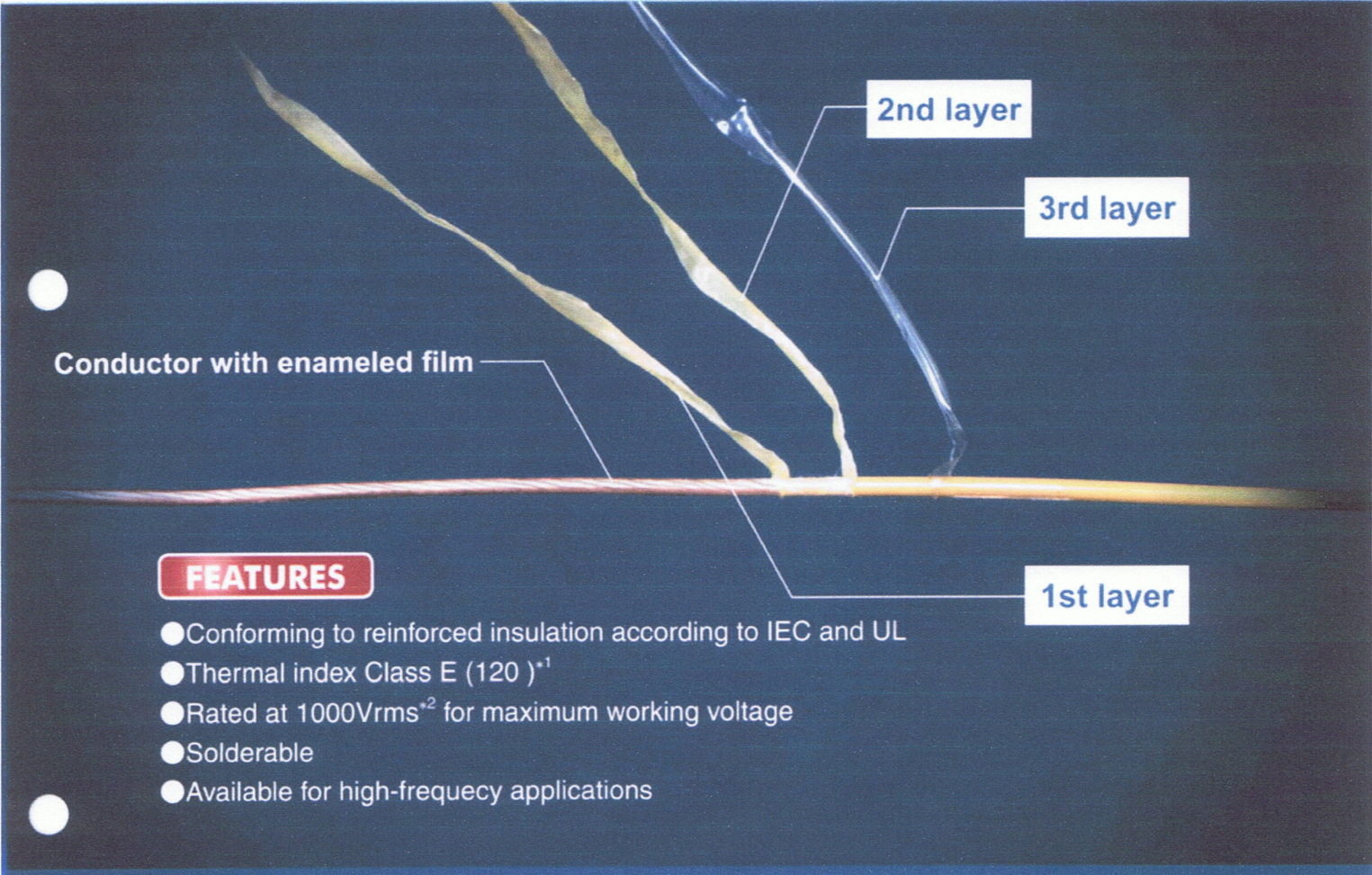


FURUKAWATEX Series
 CLASS E TRIPLE INSULATED WINDING WIRE

TEX-ELZ



FEATURES

- Conforming to reinforced insulation according to IEC and UL
- Thermal index Class E (120)^{*1}
- Rated at 1000Vrms^{*2} for maximum working voltage
- Solderable
- Available for high-frequency applications

*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 3000Vrms for 1 minute.

Safety Approvals

Certification Bodies	Standards
UL	UL1950 UL2353
CSA	IEC 60950-1 IEC 60065
NEMKO	IEC 60950-1 IEC 60065

Contact us regarding the certification conditions for each authorities

► Size comparison (transformer of capacity equivalent)



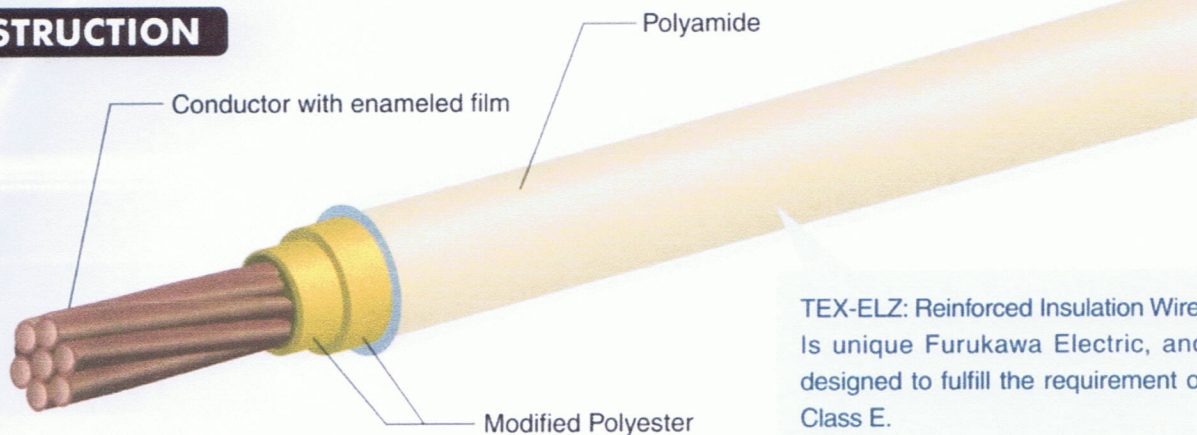
Conventional Type with "UEW"

New Type with "TEX-ELZ"

TEX-ELZ



CONSTRUCTION



TEX-ELZ: Reinforced Insulation Wire, Is unique Furukawa Electric, and designed to fulfill the requirement of Class E.

Characteristics

Items		Characteristics
Break down voltage (kVrms)	Twisted pair	20 ^{<sup>1</sup>}
Withstand Voltage	3000Vrms for 1 min.	Pass
Solderability at 420°C (sec.) ^{<sup>2</sup>}	<7/0.20mm	8
	>=7/0.20mm	10

*1 Limit value, not specification

*2 Note that your solder shop would preferably be ventilated.

Safety Approvals

IEC 60950 Annex U	Item	Test Conditions	Result
IEC 60950 Annex U	U2.1 Electric strength	6000Vrms for 1min Twisted pair	Pass
	U2.2 Adherence and Flexibility	3000Vrms for 1min Mandrel	Pass
	U2.3 Heat Shock	215°C for 30min 3000Vrms for 1min Mandrel	Pass
	U2.4 Retention of Electric Strength after bending	3000Vrms for 1min Mandrel	Pass

Dimensions

Nominal Conductor diameter (mm)	Standard O.D. (mm)	Max. O.D. (mm)	Max Conductor resistance (Ω/km at 20°C)	Weight (kg/km)
7/0.10	0.522	0.562	346.9	0.679
7/0.11	0.552	0.592	285.2	0.797
7/0.12	0.588	0.628	238.4	0.931
7/0.13	0.618	0.658	202.4	1.069
7/0.14	0.648	0.688	173.8	1.217
7/0.15	0.678	0.718	151.1	1.375
7/0.16	0.714	0.754	132.4	1.550
7/0.17	0.744	0.784	117.0	1.728
7/0.18	0.774	0.814	104.2	1.917
7/0.19	0.804	0.844	93.34	2.115
7/0.20	0.834	0.874	84.10	2.323
7/0.21	0.864	0.904	76.18	2.541
7/0.22	0.894	0.934	69.96	2.769
7/0.23	0.930	0.970	63.91	3.017
7/0.24	0.960	1.000	58.61	3.265
7/0.25	0.990	1.030	53.94	3.523
7/0.26	1.020	1.060	49.81	3.792
7/0.27	1.050	1.090	46.13	4.070
7/0.28	1.080	1.120	42.85	4.358
7/0.29	1.110	1.150	39.91	4.656
7/0.30	1.146	1.186	37.01	4.976

Reference value

 **THE FURUKAWA ELECTRIC CO., LTD.**

Head Office 2-3, Marunouchi 2-chome, Chiyoda-ku 100-8322, Japan
TEL. +81-3-3286-3144 FAX. +81-3-3286-3029

PACE House,
Little Balmer
Buckingham Ind Park
Buckingham, Bucks
MK18 1TF

PACE
POWER MAGNETICS
DIVISION

Tel: 01280 817243 Fax: 01280 823167
Email: Sales@powermagnetics.co.uk

The details of this pamphlet are subject to change without notice. It should be noted that this pamphlet does not contain specifications for products, nor does its description guarantee the performance of products.



TEX-ELZ Specification Sheet

Number of Wires and Size in mm	Dimensions of Strands (mm)			Dimensions of Wires (mm)			Minimum Dielectric Breakdown (V)	Maximum Conductor Resistance (Ohm/km) at 20°C
	Conductor Diameter	Conductor Tolerance (+ or -)	Minimum Film Thickness	Target Overall Diameter	Maximum Overall Diameter	Minimum Film Thickness		
7/0.10	0.10	0.003	0.003	0.504~0.544	0.580	0.084	6000	346.90
7/0.11	0.11	0.003	0.003	0.534~0.574	0.610	0.084	6000	285.20
7/0.12	0.12	0.003	0.004	0.570~0.610	0.650	0.084	6000	238.40
7/0.13	0.13	0.003	0.004	0.600~0.640	0.680	0.084	6000	202.40
7/0.14	0.14	0.003	0.004	0.630~0.670	0.710	0.084	6000	173.80
7/0.15	0.15	0.003	0.004	0.660~0.700	0.740	0.084	6000	151.10
7/0.16	0.16	0.003	0.005	0.696~0.736	0.770	0.084	6000	132.40
7/0.17	0.17	0.003	0.005	0.726~0.766	0.800	0.084	6000	117.00
7/0.18	0.18	0.003	0.005	0.756~0.796	0.830	0.084	6000	104.20
7/0.19	0.19	0.003	0.005	0.786~0.826	0.860	0.084	6000	93.34
7/0.20	0.20	0.003	0.005	0.816~0.856	0.890	0.084	6000	84.10
7/0.21	0.21	0.003	0.005	0.846~0.886	0.920	0.084	6000	76.18
7/0.22	0.22	0.004	0.005	0.876~0.916	0.950	0.084	6000	69.96
7/0.23	0.23	0.004	0.006	0.912~0.952	0.990	0.084	6000	63.91
7/0.24	0.24	0.004	0.006	0.942~0.982	1.020	0.084	6000	59.61
7/0.25	0.25	0.004	0.006	0.972~1.012	1.050	0.084	6000	53.94
7/0.26	0.26	0.004	0.006	1.002~1.042	1.080	0.084	6000	49.81
7/0.27	0.27	0.004	0.006	1.032~1.072	1.110	0.084	6000	46.13
7/0.28	0.28	0.004	0.006	1.062~1.102	1.140	0.084	6000	42.85
7/0.29	0.29	0.004	0.006	1.092~1.132	1.170	0.084	6000	39.91
7/0.30	0.30	0.005	0.007	1.128~1.168	1.200	0.084	6000	37.01