

**We can.**

**BASIC INSULATED WINDING WIRE**

# FSX-E



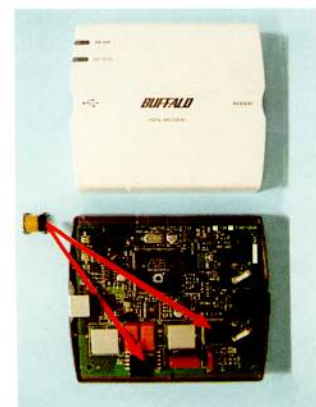
**FSX-E Wire (Fine Winding Wire) offers basic insulation and is designed for TNV\* circuit decices.**

TNV\* Telecommunication Network Voltage

## Safety Approvals

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

Contact us regarding the certification conditions for each authorities.



Application to ADSL modem

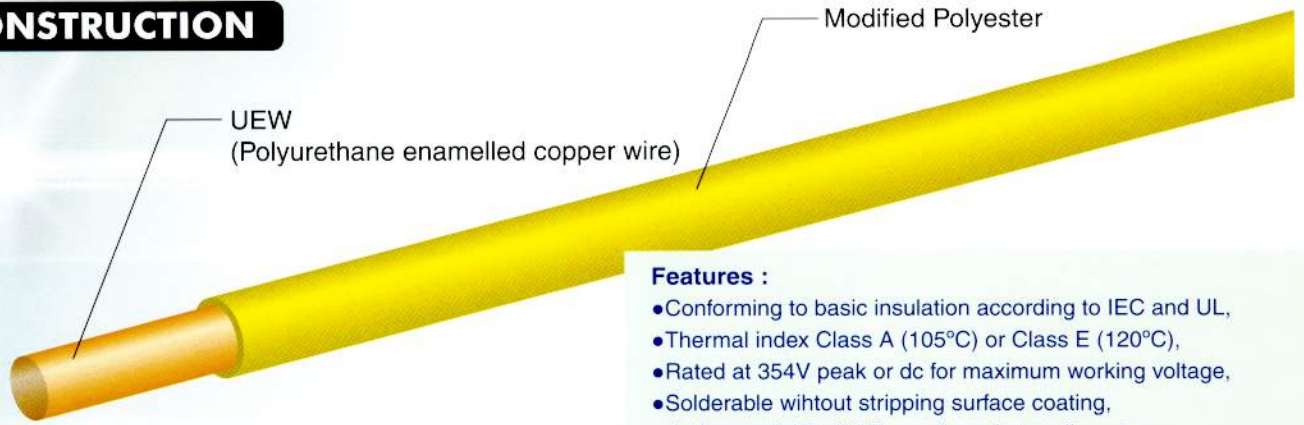
**FURUKAWA ELECTRIC**

# BASIC INSULATED WINDING WIRE

# FSX-E



## CONSTRUCTION



UEW  
(Polyurethane enamelled copper wire)

Modified Polyester

### Features :

- Conforming to basic insulation according to IEC and UL,
- Thermal index Class A (105°C) or Class E (120°C),
- Rated at 354V peak or dc for maximum working voltage,
- Solderable without stripping surface coating,
- As fine as 0.10 - 0.19mm of conductor diameter.

### FSX-E vs. UEW

Items		FSX-E	UEW
Dimension	Overall diameter (mm)	0.220	0.175
	Conductor diameter (mm)	0.150	0.150
	Insulation thickness (mm)	UEW	0.005
PET*		0.030	—
Break down voltage (kVrms)	Twisted pair	12.3	7.5
Withstand Voltage	1500Vrms for 1min	Pass	—
Continuity (/30m specimen)	1500Vrms	0, 0, 0	12, 5, 9
Solderability (sec.)*	420°C	1	2
Unilateral scrape (N)		10.78	4.23
Resistance to softening (times)		32	10
Adherence (mm)		< 0.5	0.5

\*Modified polyester

### Dimensions

Nominal Conductor diameter (mm)	Typical O.D. (mm)	Max. O.D. (mm)	Max. Conductor resistance (Ω/km at 20°C)	Mass (kg/km)
0.10	0.168	0.194	2482	0.089
0.11	0.178	0.204	2032	0.105
0.12	0.190	0.216	1694	0.123
0.13	0.200	0.226	1434	0.142
0.14	0.210	0.236	1229	0.162
0.15	0.220	0.246	1065	0.184
0.16	0.232	0.258	932	0.208
0.17	0.242	0.268	823	0.233
0.18	0.252	0.278	731	0.259
0.19	0.262	0.288	655	0.286

Reference value

### Safety Approvals

IEC 60950 Annex U	Item	Test Condition	Result	Reference
IEC 60950 Annex U	U2.1 Electric strength	3000Vrms for 1min Twisted pair	Pass	—
	U2.2 Adherence and Flexibility	1500Vrms for 1min Mandrel	Pass	—
	U2.3 Heat Shock	215°C for 30min 1500Vrms for 1min Mandrel	Pass	—
	U2.4 Retention of Electric Strength after bending	1500Vrms for 1min Mandrel	Pass	—

▶▶ About Products

<http://www.TEX-E.com/>

### Typical Applications



DSLAM



ADSL MODEM



VoIP ROUTER

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