

## Polyurethane Enamelled Copper Wire

Polyurethane enamelled copper wire is characterized by its ability to be soldered without removing the insulation coating.

Depending on surface lubricity, the following types are available.

Product	Thermal Index (°C)	Features	UL Recognition
UEW3	130	Standard polyurethane enamelled copper wire	Yes
UEWN	130	Nylon resin overcoat on UEW3 Excellent winding lubricity, improving windability and space factor.	Yes

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## Heat-Resistant Solderable Enamelled Copper Wire

This wire has a Thermal Index of 155° C or higher and can be soldered without removing the insulation coating.

Product	Thermal Index (°C)	Features	UL Recognition
UEWB3	155	Self-lubricating with good slip properties Low residue during arc welding terminal processing Excellent hydrolysis resistance	Yes
SPEW	155	Well-balanced softening and soldering temperatures Suitable for reflow soldering	Yes
SPEWN	155	Nylon resin overcoat on SPEW Excellent winding lubricity, improving windability and space factor. Improved thermal shock resistance	Yes
SEIW	180	Solderable wire with Thermal Index 180°C	No

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## Low Outgassing Polyurethane Enamelled Copper Wire

This wire suppresses gas generation from the insulation coating.

No liquid paraffin is applied, eliminating a cause of contact failure.

Low phenolic solvent outgassing makes it ideal for sealed relays, micro-motors, and similar applications.

Product	Thermal Index (°C)	Features	UL Recognition
PCFUEW	130	Low outgassing Self-lubricating with good slip properties	Yes
PFUEWB3	155	Low outgassing Self-lubricating with good slip properties Low residue during arc welding terminal processing Excellent hydrolysis resistance	Yes

## Heat-Resistant Enamelled Copper Wire

Enamelled copper wire with a Thermal Index of 155° C or higher.

Essential for improving reliability and performance of various electrical and electronic devices.

Product	Thermal Index (°C)	Features	UL Recognition
PEW1	155	Standard heat-resistant enamelled copper wire Hydrolysis may occur; caution required for sealed applications	Yes
PEWN	155	Nylon resin overcoat on PEW1 Excellent winding lubricity, improving windability and space factor. Improved thermal shock resistance Hydrolysis may occur; caution required for sealed applications	Yes
EIW1	180	Excellent mechanical, chemical, and thermal properties Prone to crazing; post-winding heat treatment required	Yes
EIAIW1	200	Polyamide-imide (AIW) resin overcoat on EIW1 Good surface lubricity Withstands severe operating conditions Excellent mechanical, chemical, and thermal properties	Yes
AIW	200	Highest Thermal Index (200°C) among our products Excellent mechanical, chemical, and thermal properties	Yes
AIW1	200	Highest Thermal Index (200°C) among our products Excellent mechanical, chemical, and thermal properties	Yes

## **Self-Bonding Enamel Copper Wire**

Self-bonding enamel copper wire consists of a standard enamel copper wire coated with an additional layer of bonding film. This wire is essential for manufacturing bobbinless coils and can also be used for standard coils to eliminate the need for the varnishing process. It can be combined with various types of insulation films.