

Litz wire (from the German term for braided wire, *Litzendraht*) is a special type of multi-strand wire. Thin, individual strands of enameled magnet wire are twisted together in a specific pattern to form the complete litz wire. This unique construction mitigates skin and/or proximity effects and lends to fewer losses in high frequency applications. As such, litz wire is ideal for switch-mode power supplies, high Q coils, and many other specialized applications that require minimal losses at higher frequencies (e.g. aviation, medical, laboratory, and communication uses).

This Unserviced, Single Build Litz Wire from Remington Industries is specifically designed for an ideal operating frequency of 200 to 350 kHz. The raw copper used to construct the litz wire is drawn to meet specific size requirements based on standards created by the National Electrical Manufacturers Association (NEMA). The magnet wire meets the NEMA MW 80-C standard for operating temperature (155°C / 311°F) and insulation makeup. Remington Industries offers this litz wire in 7 wire gauges (from 14 to 26 AWG) to fit the needs of your application. We also provide the wire in several spool sizes (see below) for your convenience.

- Type: Single Build, Unserviced Litz Wire
- Insulation Material: Solderable Polyurethane with Polyamide Overcoat
- Insulation Color: Red
- NEMA Specification: MW 80-C
- Temperature Rating: 155°C (311°F)
- Ideal Operating Frequency: 200 kHz to 350 kHz
- UL Recognized Component (OBMW2 File E190291)
- RoHS Compliant
- Spool Sizes Available: 2 oz, 4 oz, 8 oz, 1.0 lb, 2.5 lb, 5.0 lb (see individual listings for length)

PART NUMBER	WIRE GAUGE	STRANDING	OVERALL DIAMETER	MAXIMUM DCR AT 20°C (68°F)	TWIST RATE & DIRECTION
650/42LITZ	14 AWG	5X5/26/42 (5 groups of 5 bundles of 26 strands of 42 AWG)	0.0880"	0.00302 Ω/ft	7.8 ± 1.5 TPF, Right Hand Lay
420/42LITZ	16 AWG	5X3/28/42 (5 groups of 3 bundles of 28 strands of 42 AWG)	0.0710"	0.00468 Ω/ft	10 ± 2 TPF, Left Hand Lay
270/42LITZ	18 AWG	5X3/18/42 (5 groups of 3 bundles of 18 strands of 42 AWG)	0.0570"	0.00728 Ω/ft	12 ± 2 TPF, Right Hand Lay
165/42LITZ	20 AWG	5X33/42 (5 bundles of 33 strands of 42 AWG)	0.0440"	0.01169 Ω/ft	14 ± 2 TPF, Right Hand Lay
105/42LITZ	22 AWG	5/21/42 (5 bundles of 21 strands of 42 AWG)	0.0330"	0.01837 Ω/ft	18 ± 3 TPF, Right Hand Lay
65/42LITZ	24 AWG	5/13/42 (5 bundles of 13 strands of 42 AWG)	0.0260"	0.02967 Ω/ft	21 ± 3 TPF, Right Hand Lay
40/42LITZ	26 AWG	40/42 (40 strands of 42 AWG)	0.0205"	0.04731 Ω/ft	18 ± 3 TPF, Right Hand Lay

Litz Wire, 350 kHz MW 80-C, Unserviced Data Sheet

Remington Industries is proud to offer our Custom Wire Services

Our exclusive inventory of in-stock wire and ability to procure wire of all kinds makes us the perfect partner for wire purchasing and custom wire services. We are proud to provide essential, high quality wire for engineering projects, educational science projects, coil winding, and electronics applications.

Some of our many wire services include the following:

- Wire Re-Packaging
- Bifilar & Trifilar Windings
- Wire Processing
- Coil Winding
- Wire Procurement Services

If you have any questions or need any information about our [Wire Services](#), feel free to contact us! It only takes one call to get experienced assistance.

Contact us by phone:
(815) 385-1987

Contact us by email:
sales@remingtonindustries.com

DATE | ISS. | REVISION | BY

Drawn by: AG 4/8/25
Drawing rev.: --

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