

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 approximately 100 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). Additionally, this 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
- Twists Per Foot:  $12 \pm 1$  TPF
- Insulation Material: Solderable Polyurethane with Polyamide Overcoat
- Insulation Color: Red
- NEMA Specification: MW 80-C
- Temperature Rating: 155°C (311°F)
- Ideal Operating Frequency: Approx. 100 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 DIRECTION
260/38LITZ	14 AWG	5/52/38 (5 bundles of 52 strands of 38 AWG)	0.090"	0.00281 Ω/ft	Left Hand Lay
162/38LITZ	16 AWG	3/54/38 (3 bundles of 54 strands of 38 AWG)	0.071"	0.00451 Ω/ft	Left Hand Lay
100/38LITZ	18 AWG	5/20/38 (5 bundles of 20 strands of 38 AWG)	0.052"	0.00730 Ω/ft	Right Hand Lay
64/38LITZ	20 AWG	64/38 (64 strands of 38 AWG)	0.042"	0.01120 Ω/ft	Right Hand Lay
40/38LITZ	22 AWG	40/38 (40 strands of 38 AWG)	0.033"	0.01792 Ω/ft	Left Hand Lay
25/38LITZ	24 AWG	25/38 (25 strands of 38 AWG)	0.026"	0.02782 Ω/ft	Right Hand Lay
16/38LITZ	26 AWG	16/38 (16 strands of 38 AWG)	0.021"	0.04347 Ω/ft	Right Hand Lay

## Litz Wire

### 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](mailto:sales@remingtonindustries.com)

5/25/21 | -2 | Added TPF & twist dir. | AG

8/11/20 | -1 | Added 14 & 16 AWG litz wire sizes to data sheet | AG

DATE | ISS. | REVISION | BY

Drawn by: AG 1/30/20  
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