

PURCHASE SPECIFICATION

CHANGE DETAIL: Revised colors of E4426-2 and E4426-3 information.
ENGINEERING CONTROLLED MANUFACTURER: Yes

Construction

Litz Wire is a wire consisting of a number of separately insulated strands woven or bunched together such that each strand tends to take all possible positions in the cross section of the entire conductor. The design concept results in equalizing the flux linkages and hence reactance, of the individual strands thereby causing the current to divide uniformly between strands.

The above described Litz wire is then wrapped with an outer insulation of various materials.

Spec. No.	AWG Size	Stranding	Operating Frequency	Cross Section Dimensions	LBS/KFT	Outer Insulation	Resistance
E4426-2	12	5x53/36	20KHz to 50KHz	Ø.145" +.005"/-.008" (Over Insulation)	27.75	Double Layer Teflon .008" Red FEP (outer) .008" White FEP	---
E4426-3	5	5x5/53/36	20KHz to 50KHz	Ø.292" +.008"/-.016" (Over Insulation)	123.41	Single Layer Teflon .020" Red FEP (outer)	---

Film Insulation MW80-C
Solder Strippable Yes (470C) 5 sec min
Insulation Class 155C

The copper conductor shall conform to:

- A. ASTM Spec B-48 latest issue for rectangular or square wire, wire to have rounded corners. Hardness of copper not to exceed Rockwell F-54.
- B. ASTM Spec. B-3 latest issue for round wire.

The finished wire shall conform to latest adopted NEMA magnet wire standard applicable to the type of wire specified on the order.

Thickness of magnet wire coating - Single Heavy

Packaging and Shipping

Method of best commercial practice with maximum reel sizes to be: 24.00 O.D. x 15.00 Width
Wire to be continuous throughout spool.
Lincoln Electric Company specification number must appear on container.

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EXTERNAL SPECIFICATIONS AND STANDARDS: Vendor to abide by latest revision date regardless of any revision date specified.
REJECTION: Unless the material specified herein arrives at the plant of The Lincoln Electric Company in accordance with these specifications, it will become grounds for rejection of the shipment. The Lincoln Electric Company will notify the vendor of any complaints, if the material does not fulfill these specifications, and will wait disposition of said material from the vendor. Any charge brought about getting the shipment into shape in accordance with these specifications or waiting disposition from the vendor will be paid by the vendor.

SUBJECT: Litz Wire				DOCUMENT NUMBER: E4426	DOCUMENT REVISION: A.03
DRAWN BY: GWM	ENGINEER: K. Justice	MATERIAL DISPOSITON: NA	PROJECT NUMBER: 5056381	Page 1 of 1	
APPROVED: DRS	APPROVAL DATE:				