

Class 105 polyvinyl acetal with self-bonding overcoat round copper magnet wire

Table1 Specifications

Insulation materials	Polyvinyl Acetal with self-bonding
Thermal Class	105
Bare Wire Dimensions	Type 1 and Type 2: 14-44 AWG; Type 3: 14-30 AWG
Standard	MW-18-C

Table 2 Properties

Adherence and flexibility	No cracks visible in the film coating
Minimum Percent Elongation	Not less than value in 25-38
Heat shock	No cracks visible in the film coating after conditioning at 175°C
Springback	Not greater than the value in Type1(mm): 42±0.127 ~ 66±0.127 Type2, type3(mm): 46±0.127 ~ 70±0.127
Dielectric Breakdown	14-23.5 AWG: type1: 2740V-3520V; type2: 4500V - 5690V; 24-37 AWG: type1: 1360V-2740V; ; type2: 2270V - 4870V; 38-56 AWG: 90V -1690V

Features:

Its insulation layer is made of polyamide resin and is coated with a self-adhesive layer. When heated or exposed to solvents, this enameled wire can bond together, forming self-fixing coils.

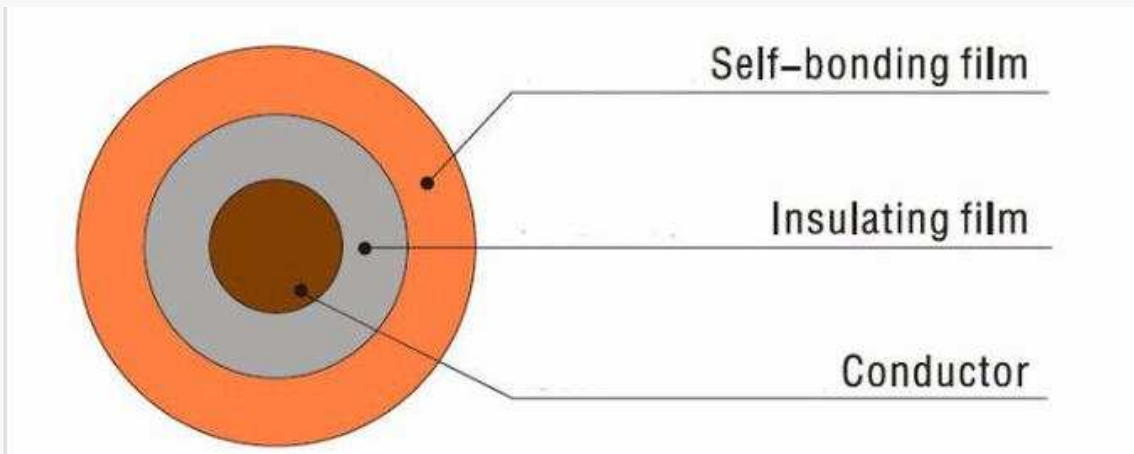
The underlying coating is based on a blend of polyvinyl acetal and phenolic resins . The superimposed coating is based on resins that are self-bonding in character.



Table 3 Periodic conformance tests

Dielectric breakdown rated temperature	Average not less than 75% of the value required at room temperature
Toluene / ethanol compatibility	No swelling or blistering in the film coating
Bond Strength At	No break in the coil specimen when subjected to the load specified in 18 AWG: 408 grams or 4.00 newtons 26 AWG: 76 grams or 0.75 newtons 36 AWG: No separation of turns other than the first or last turn
Thermoplastic flow	Median not less than 180°C

Structure



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郑州蓝普实业有限公司

Zhengzhou LP Industry CO., LTD.

Phone: 0086-19337889070

Web: <https://lpwindingwire.com>

Email: office@cnlpzz.com

Add: NO. 86 Jingsan Road, Jinshui District, Zhengzhou, China