



Class 180 Polyester Overcoated with Polyamide Round Copper Magnet Wire for Solderable Applications

Table1 Specifications

| | |
|----------------------|---|
| Insulation materials | Polyester Overcoated with Polyamide Polyester Imide Overcoated with Polyamide |
| Dimensions | Single 14-44 AWG in accordance with 0.061-1.692mm Heavy 14-44 AWG in accordance with 0.066-1.732mm |
| Insulation thickness | Single, Heavy |
| Thermal Class | 180 |
| Certificate | MW 78-C |

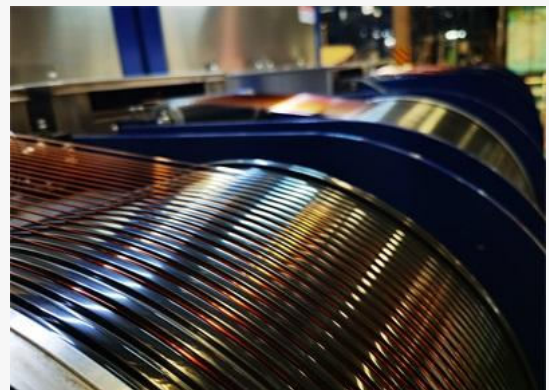


Table 2 Periodic conformance test

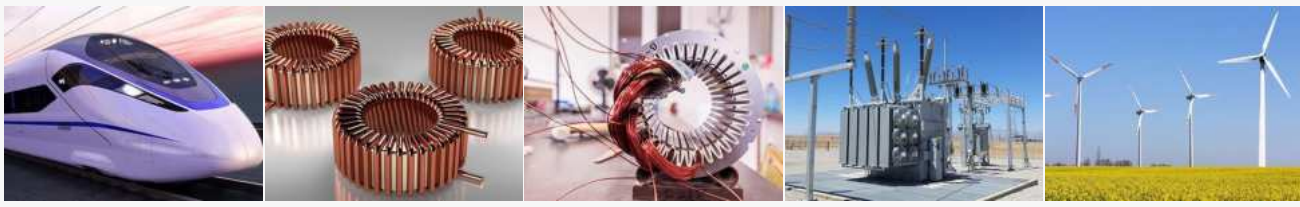
| | |
|---|---|
| Thermoplastic flow | Median not less than 200°C |
| Solubility | Specimens immersed in xylene shall not soften sufficiently to expose the bare conductor |
| Dielectric breakdown at rated temperature | Average not less than 75% of the value required at room temperature |





Table 3 Properties

| | | |
|---------------------------|--|------------------|
| Adherence and flexibility | No cracks visible in the film coating | |
| Elongation | Not less than the value in 10-35 | |
| Heat shock | No cracks visible in the film coating after conditioning at 200°C | |
| Springback | 14-30 AWG: not greater than the value in 42-66 | |
| Dielectric breakdown | 10-23.5 AWG: not less than the value in Single 2470v-3170v; Heavy 4440v-6120v 24-44 AWG: not less than the value in Single 275v-1220v; Heavy 550v-2190v | |
| Continuity | 14-44 AWG: max number of discontinuities in accordance with Single 350-1000; Heavy 500-1500 | |
| Solderability | Covered with continuous film of solder after immersion within the time specified at 470 °C: | |
| | AWG Size | Single and Heavy |
| | 14-15.5 | 10 seconds |
| | 16-19.5 | 8 seconds |
| | 20-29.5 | 6 seconds |
| | 30-36 | 5 seconds |
| | 37-44 | 4 seconds |



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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