



Product: [8085](#)

Magnet Wire, #38 Sol BC, Polyester/Amide-imide Polymer Ins

Request Sample

Product Description

Magnet Wire, 38AWG (Solid) Bare Copper, Polyester/Amide-imide Polymer Insulation, CLASS 200 MW 35-C

Technical Specifications

Product Overview

| | |
|------------------------|-----------------------|
| Suitable Applications: | class 200 magnet wire |
|------------------------|-----------------------|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Conductors |
|-----|-----------|------------------|-------------------|
| 38 | Solid | BC - Bare Copper | 1 |

| | |
|------------------|---|
| Conductor Count: | 1 |
|------------------|---|

Insulation

| Material | Nominal Diameter | Nominal Wall Thickness |
|-----------|------------------|------------------------|
| Polyester | 0.0051 in | 0.001 in |

Outer Jacket

| |
|----------------------|
| Max. Diameter |
| 0.0051 mm |

Construction and Dimensions

| | |
|---------------------|----------|
| Min Increase in OD: | 0.001 in |
|---------------------|----------|

Electrical Characteristics

Conductor DCR

| |
|------------------------------|
| Nominal Conductor DCR |
| 648.2 Ohm/1000ft |

Current

| |
|--|
| Max. Recommended Current [A] |
| Single conductor in free air @ 30°C: 0.023 A |

Voltage

| |
|--------------------------------------|
| Breakdown Voltage |
| 2150 V Minimum (at Room Temperature) |

Temperature Range

| | |
|---------------------|-------|
| Non-UL Temp Rating: | 200°C |
|---------------------|-------|

Mechanical Characteristics

| | |
|------------------------|----------|
| Approximate Length: | 19300 ft |
| Turns Per Linear Inch: | 206 |

| | |
|------------------------------|------------------|
| Turns Per Square Inch: | 42436 |
| Bulk Cable Weight: | 0.052 lbs/1000ft |
| Min. Bend Radius/Minor Axis: | 0.02 in |

Standards

| | |
|----------------------|-------------|
| Military Compliance: | J-W-1177/43 |
|----------------------|-------------|

Applicable Environmental and Other Programs

| | |
|--|-------------------------------|
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/96/EC (BFR): | Yes |
| EU Directive 2011/65/EU (RoHS 2): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| CA Prop 65: | Yes |
| MII Order #39 (China RoHS): | Yes |

Flammability, LSOH, Toxicity Testing

| | |
|--------------------|-----|
| UL voltage rating: | N/A |
|--------------------|-----|

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Related Part Numbers

Variants

| Item # | Color | Put-Up Type | Length | UPC |
|--------|-------|-------------|--------|--------------|
| 8085 | None | Reel | 1 ft | 612825194651 |

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.378 Revision Date: 05-05-2023 |
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