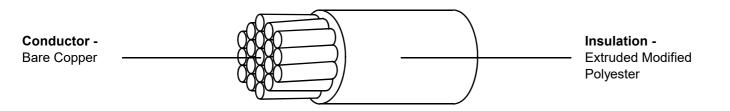


WIRE, POLYESTER INSULATED, AUTOMOTIVE, 50 VOLT, 150°C

The complete requirements for procuring the wire described herein shall consist of this document and the issue in effect of the referenced specifications. This document takes precedence over documents referenced herein.



| Part | Conductor | Conductor | Cond | luctor | | | FINISH | ED WIRE | | |
|----------------|-----------|-----------|------|--------|------------|-------|----------|---------|---------|-------------|
| Description | Cross | Stranding | Diar | neter | Maximum | | Diameter | | Maximum | Copper |
| | Sectional | No/Dia | (m | ım) | Resistance | | (mm) | | Weight | Weight |
| | Area | (mm) | | | @20 °C | Lower | | Upper | (kg/km) | Information |
| | (mm²) | | | | (ohms/km) | Spec | Target | Spec | | Only |
| | | | Min | Max | | Limit | | Limit | | (g/m) |
| 62E0119-0.35-* | 0.35 | 7/0.25 | 0.73 | 0.76 | 53.4 | 1.21 | 1.24 | 1.26 | 4.43 | 3.25 |
| 62E0119-0.50-* | 0.50 | 19/0.18 | 0.82 | 0.91 | 40.1 | 1.36 | 1.38 | 1.41 | 6.21 | 4.65 |
| 62E0119-0.75-* | 0.75 | 19/0.23 | 1.05 | 1.10 | 24.7 | 1.53 | 1.55 | 1.58 | 8.45 | 6.9 |
| 62E0119-1.00-* | 1.00 | 19/0.26 | 1.17 | 1.26 | 19.9 | 1.78 | 1.81 | 1.83 | 11.1 | 8.9 |
| 62E0119-1.25-* | 1.25 | 19/0.29 | 1.32 | 1.42 | 15.3 | 1.83 | 1.86 | 1.89 | 13.2 | 10.9 |
| 62E0119-1.50-* | 1.50 | 19/0.32 | 1.46 | 1.51 | 13.7 | 2.05 | 2.07 | 2.10 | 15.8 | 13.3 |
| 62E0119-2.50-* | 2.50 | 19/0.41 | 1.87 | 1.94 | 8.2 | 2.47 | 2.50 | 2.52 | 25.2 | 22.0 |

COLOUR CODE:

The '*' in the part number shall be replaced by a standard colour code designator in accordance with Mil Std 681. e.g. 62E0119-0.50-9 will have White insulation.

APPROVAL:

Electronic sign off - no signatures will appear.

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PERFORMANCE REQUIREMENTS TO THE ISSUE IN EFFECT OF THE SPECIFICATION DETAILED BELOW

| WSK M1L126-A1 | TEST FREQUENCY | DEFINITION | REQUIREMENTS | | | | |
|--|----------------|-------------------------|--|--|--|--|--|
| Test Method (TO BS2G 230 CLAUSE 6.1*) 3.2 IL | | Wire Diameter | See Contructional details. | | | | |
| 0.2 | | | | | | | |
| Conductor | | | | | | | |
| 3.3.1 | V | Construction | See Constructional details. | | | | |
| 3.3.4 | V | Outer Diameter | See Constructional details. | | | | |
| 3.3.7 | V | Elongation | 15% Min. | | | | |
| 3.3.8 | QA | Resistance | See Constructional details. | | | | |
| | | | | | | | |
| Insulation | | Г | | | | | |
| 3.4.1 | IL | Finish | Free from flaws. | | | | |
| 3.4.2 | IL | Colour | To Mil-Std-681. | | | | |
| 3.4.3 | IL | Outer Diameter | See Constructional details. | | | | |
| 3.4.3 | IL | Wall Thickness | 0.15 mm Min. | | | | |
| 3.4.3 | IL | Concentricity | 70% Min. | | | | |
| - | IL | Tensile Strength | 30 N/ mm² Min. | | | | |
| - | IL | Elongation | 250% Min. | | | | |
| Finished Wire | | | | | | | |
| 3.6 | 100% | Spark Test | 6 kV Impulse, no flaws. | | | | |
| 3.7 | QA | Duration Test Voltage & | 3 kV @ 30 minutes then 5 kV Min. breakdown. | | | | |
| | | Breakdown Voltage | No perforations. | | | | |
| 3.8 | QA | Insulation Resistance | 2 Megohms/ metre Min. | | | | |
| | | (Volume Resistivity) | | | | | |
| 3.9 | QA | High Temperature | 150°C @ 4 Hours, 50% Max. | | | | |
| | | Compression | | | | | |
| - | QA | Heat Ageing (i) | 150°C @ 3000 Hours Min. to ASTM D3032 section 14 | | | | |
| 3.11 | PQ | Heat Ageing (ii) | 180°C @ 48 Hours, tensile strength 11.0 MPa Min. | | | | |
| | | | elongation 125% Min. | | | | |
| 3.12 | QA | Shrinkage | 200 mm sample, 4% Max. | | | | |
| 3.13 | QA | Flame Propagation | Specimen 0.5 m. burn rate 100 mm/ minute | | | | |
| | | | Max. extinguishing time 30 secs Max. | | | | |
| 3.14 | PQ | Low Temperature | No splits or cracks, 5kV Min. | | | | |
| | | Flexibility | breakdown voltage (-40°C). | | | | |
| 3.15 | QA | Retention of core | Size 1.00 mm and below 5.0 N Min 40 N Max. | | | | |
| | | (strip force) | Size above 1.00 mm 10 N Min - 80 N Max. | | | | |
| 3.16 | QA | Oil Resistance | ±4% Max.Thickness change, | | | | |
| | | | 5kV Min. breakdown voltage. | | | | |
| 3.17 | QA | Fuel Resistance | ±8% Max. thickness change, | | | | |
| | | | 5kV Min. breakdown voltage. | | | | |
| 3.18 | QA | Abrasion Resistance | As per BB101-20 Ford Spec. table 1, with the | | | | |
| | 44 | | | | | | |
| | | | exceptions of: 62E0110, 1.50 * which chall be > 500 evalues Min | | | | |
| | | | • 62E0119-1.50-* which shall be > 500 cycles Min. | | | | |
| | | | 62E0119-2.50-* which shall be > 700 cycles Min. se of statistically derived data | | | | |

Please note that individual test frequencies may be modified through the use of statistically derived data

* The test frequency V indicates a vendor verified parameter

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