

# Technical data sheet · LUTZE Single Conductor Hook Up Wire with UL/CE/MTW and HAR Approvals



Flexible Single Conductor Hook Up Wire · Multi-Norm

|                                        |                                                                                                                                                                                                                                                                                                                                              |                      |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Identification</b>                  | Type                                                                                                                                                                                                                                                                                                                                         | EA HAR-UL 1G1,0 GNGE |
|                                        | Part-No.                                                                                                                                                                                                                                                                                                                                     | A61800               |
| <b>Use/Application/Characteristics</b> |                                                                                                                                                                                                                                                                                                                                              |                      |
| Application                            | <ul style="list-style-type: none"><li>• Multi rated single-conductor cable for wiring of cabinets and use in electrical and electronic equipment</li><li>• Specially suited for machines exported to Europe (HAR) and North America (UL MTW + CSA TEW)</li><li>• MTW rating as required <b>per NFPA 79</b> for machine tool wiring</li></ul> |                      |
| Characteristics                        | <ul style="list-style-type: none"><li>• Fine stranding class 5, per VDE 0295</li><li>• Very flexible for easy installation</li><li>• Free from silicone and other varnish damaging substances</li><li>• Conditionally resistant to oils, solvents, acids and bases</li><li>• MTW rated</li><li>• RoHS compliant</li></ul>                    |                      |
| <b>Construction</b>                    |                                                                                                                                                                                                                                                                                                                                              |                      |
| Description                            | SINGLE CONDUCTOR HOOK UP WIRE MULTI-NORM                                                                                                                                                                                                                                                                                                     |                      |
| Number of conductors/cross-section     | 1×1.0                                                                                                                                                                                                                                                                                                                                        |                      |
| Cross-section AWG                      | AWG 18                                                                                                                                                                                                                                                                                                                                       |                      |
| Cross-section, metric                  | 1 mm²                                                                                                                                                                                                                                                                                                                                        |                      |
| Jacket color                           | green-yellow                                                                                                                                                                                                                                                                                                                                 |                      |
| Outer Ø                                | 2.9 mm                                                                                                                                                                                                                                                                                                                                       |                      |
| Outer Ø                                | 0.114 inch                                                                                                                                                                                                                                                                                                                                   |                      |

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Part-No. A61800

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|          |              |
|----------|--------------|
| Weight   | 1.5 kg/100 m |
| Weight   | 10 Lbs/Mft   |
| Cu-Index | 0.9 kg/100 m |
| Cu-Index | 6 Lbs/Mft    |

### Element 1

|                               |                                                    |
|-------------------------------|----------------------------------------------------|
| Element construction          | AWG18/1C                                           |
| Conductor                     | CU-wire tin-plated                                 |
| Conductor category            | Finely stranded DIN VDE 0295<br>IEC 60228, Class 5 |
| Conductor marking             | green/yellow                                       |
| Conductor insulation          | PVC                                                |
| Conductor insulation standard | UL 1581<br>Class 43 heat and humidity resistant    |

### Technical data

|                              |                    |
|------------------------------|--------------------|
| Rated voltage $U_0/U$        | 300/500 V          |
| Rated voltage UL             | 600 V              |
| Test voltage type            | AC 3000 V          |
| Temperature range moving     | -5 °C ... +105 °C  |
| Temperature range fixed      | -40 °C ... +105 °C |
| Minimum bending radius fixed | 5×D                |

### Element 1

|                      |          |
|----------------------|----------|
| Element construction | AWG18/1C |
|----------------------|----------|

### Certifications/Standards

|                               |                                                                       |
|-------------------------------|-----------------------------------------------------------------------|
| Certifications                | cULus<br>cURus<br>UL 1063 MTW Listed<br>TEW<br>HAR<br>HAR: HD 21.3 S3 |
| UL style                      | AWM 1015                                                              |
| Conformity                    | CE<br>RoHS<br>REACH                                                   |
| Burning behavior according to | UL VW-1<br>IEC 60332-1                                                |

### General

|      |                                                                                  |
|------|----------------------------------------------------------------------------------|
| Note | CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU |
|------|----------------------------------------------------------------------------------|

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### Symbols



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