

# 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 1×1,0 SW
	Part-No.	A61801

## Use/Application/Characteristics

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 2095</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>

## Construction

Description	SINGLE CONDUCTOR HOOK UP WIRE MULTI-NORM
Number of conductors/cross-section	1×1.0
Outer Ø	2.9 mm
Outer Ø	0.114 inches
Weight	1.5 kg/100 m
Weight	10 Lbs/Mft
Cu-Index	0.9 kg/100 m

24.03.2017 – Subject to technical modification

Part-No. A61801

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Cu-Index 6 Lbs/Mft

## Element 1

Element construction AWG18/1C  
Conductor CU-wire tin-plated  
Conductor category Finely stranded DIN VDE 0295  
IEC 60228, Class 5  
Conductor marking black  
Conductor insulation PVC  
Conductor insulation standard UL 1581  
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

## Approvals/Standards

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

## General

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

## Symbols

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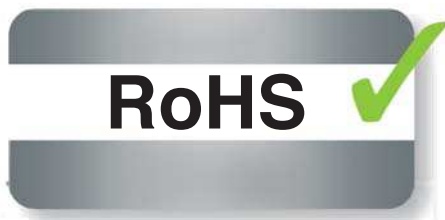
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