



<b>DATA SHEET</b>	4160100
<b>Multiple Standard HOOK UP WIRE UL(MTW)-CSA-HAR</b>	valid from : 11.07.2005

## Application

The Multiple Standard Hook Up Wire are UL, CSA and HAR(VDE)\* approved and intended for wiring of control cabinets and installation in protective insulated tubes in the area of application of the North American, Canadian and European Standards. Especial also for wiring of Industrial Machinery acc. to NFPA 79. These wires are increased oil resistant and at room temperature they are generally resistant against acids and caustics solutions.

## Design

Conductor	Tinned copper fine wire strand in accordance to UL-CSA-HAR
Core insulation	PVC-special-compound acc. to UL, CSA and HAR standards

## Electrical properties at 20° C

Nominal voltage	VDE/HAR 450/750 V from 1,5 mm <sup>2</sup> up for 600/1000 V, if these wires are fixed installed with a mechanical protection. UL,CSA 600 V
Test voltage	2500 V AC

## Mechanical and thermal properties

Temp. range	fixed inst.: UL, CSA: -40 to +105 °C ((MTW 90 °C) max. conductor temp. HAR: -40 to +70 °C max. conductor temp.
Flame retardant	in acc. to UL VW 1, CSA FT 1, IEC 60332.1
Oil resistance	in acc. to UL/CSA 60 °C (Oil res. I)
Approvals	UL Listing as MTW wire acc. to UL 1063 UL Recognition as AWM Style 1015 CSA TEW acc. to CSA C22.2 No. 127 VDE H07V-K (*) acc. to HD 21.3 S3 (VDE 0281-3) The identification of the approval takes place by printing on the wire and on the tag of the packing.
Use	UL MTW, acc. to ANSI/NFPA 70 (National Electrical Code) UL AWM, oil resistant PVC insulated wire for internal wiring of appliances CSA TEW, oil resistant wire for internal wiring VDE H07V-K (*) insulated wire for internal wiring
EC directive	This cable confirms to ECD 73/23/EEC (low voltage directive).

For the dimensions 0,5; 0,75; 1,0; 16; 50; 70, 95 and 120 mm<sup>2</sup> no HAR-approval existing!

elaborated by: TE-K: M. Herb	Document: DB4160100_2EN	page 1 of 1
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