

4 180400	DATA SHEET	
valid from: 28.03.2024	ÖLFLEX® WIRE MS 1 (former MULTI-STANDARD SC 1)	

Application

ÖLFLEX® WIRE MS 1 wiring cables are UL, CSA and HAR approved and are designed for use for control cabinet wiring as well as for installation in protective tubes, applicable within the scope of the UL- or Canadian or European standard specifications.

They are especially qualified for wiring in industrial machines in accordance with NFPA 79.

At room temperature they are widely resistant to oils.

Application range:

HAR: wiring cable for internal wiring acc.to EN 50565-1 and EN 50565-2

UL (AWM): oil resistant wiring cable for internal wiring of appliances

CSA (AWM): wiring cable for internal wiring of appliances

Design

Design	acc. to EN 50525-2-31 UL AWM Style 1007 & 1569, UL 758 CSA 22.2 No. 210-15 IEC 60227-3: This design follows the IEC 60227-3 Code designation 60227 IEC 06 requirements (no approval and marking acc. to IEC 60227-3).Only for HAR products.
Certification	H05V-K <HAR> acc. to EN 50525-2-31 UL (AWM) Style 1007 & 1569, UL 758 (File No. E63634) CSA (AWM I A/B): C22.2 No. 210-15 EN 13501-6 and EN 50575 Classification of fire behaviour (article/dimension range see www.lappkabel.com/cpr)
Conductor	fine wire strands of tinned copper, acc. to IEC 60228 resp. EN 60228, class 5
Insulation	special PVC-based compound
Core identification code	different core colours

Electrical properties at 20 °C

Nominal voltage	H05V-K, U0/U: 300/500 V AC
Rated voltage	UL (AWM): 300 V CSA (AWM): 300 V
Test voltage	H05V-K: 2 kV AC acc. to EN 50525-1 resp. EN 50525-2-31 Spark-test: 6 kV AC acc. to EN 62230

Mechanical and thermal properties

Minimum bending radius	fixed installation: 4 x outer diameter at normal use 2 x outer diameter at careful bending at termination (with a former)
Temperature range	fixed installation: HAR: -40 °C up to +70 °C max. conductor temperature UL (AWM), CSA (AWM): -40 °C up to +105 °C max. conductor temperature
Flammability	flame retardant acc. to H05V-K: IEC 60332-1-2 resp. EN 60332-1-2 UL: Vertical flame test VW-1 acc. to UL 2556, 9.4 CSA: FT1 acc. to CSA C22.2 No. 2556, 9.3
Oil resistance	UL (AWM): 60 °C rating

Tests

acc. to IEC 60811 resp. EN 60811, UL 1581 and CSA C22.2 No 210

General requirements

These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive).

A part of these cables (see www.lappkabel.com/cpr) are classified in accordance with the EU-Regulation no. 305/2011 (CPR).

Environmental information

These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

Creator: HESC / PDC	Document: DB4180400EN	Page 1 of 1
Released: ALTE / PDC	Version: 08	