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U.I. Lapp GmbH	DATA SHEET	LAPP KABEL

Multi-Standard SC 2.1

DB 4160100
valid from: 2013-07-11

Application

These multi standard wiring cables SC2.1 are UL, CSA and HAR (VDE)* 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 HD 516 S2 + A1 resp. DIN VDE 0298-300
	UL (AWM):	oil resistant wiring cable for internal wiring
	UL (MTW):	acc. to ANSI/NFPA 70 (National Electrical Code)
	CSA (TEW):	oil resistant wiring cable for internal wiring of devices

Design

Design / Approvals	H07V-K ◀HAR▶ (*) acc. to DIN EN 50525-2-31 / VDE 0285-525-2-31 UL (AWM) Style 1015 acc. to UL 758 UL (MTW) acc. to UL 1063, File-No. E198296 CSA (TEW) acc. to C22.2 No. 217-09

*For the dimensions 0.5; 0.75; 1.0 and16 mm² as well for the colours GN, YE, as for multi-coloured cores (except for GN YE) there are **no** HAR-approval **available** (X07V-K)!

Conductor	fine-wired core of tinned copper strands acc. to IEC 60228 resp. VDE 0295, Class 5, UL 758 and CSA 22.2
Core insulation	special PVC-based compound

Electrical properties

Nominal voltage	HAR H07V-K	U_0/U:	450 / 750 V AC
	UL (AWM) / UL (MTW) / CSA (TEW)	U:	600 V
Test voltage	2500 V AC		

Mechanical and thermal properties

Min. bending radius	fixed installation:	OD≤8 mm:	4 x OD** / 2 x OD***
		8<OD≤12 mm:	5 x OD** / 3 x OD***
		OD>12 mm:	6 x OD** / 4 x OD***
	** at conventional usage; *** at cautious bending		
Temperature range	fixed installation:	HAR:	-40 °C up to +70 °C max. conductor temp.
		UL (MTW):	-40 °C up to +90 °C max. conductor temp.
		UL (AWM), CSA (TEW):	-40 °C up to +105 °C max. conductor temp.
Flame resistance	HAR:	IEC 60332-1-2 resp. VDE 0482-332-1-2	
	UL:	VW-1	
	CSA:	FT1	
Oil resistance	UL/CSA:	60°C oil rating	
Tests	acc. to IEC 60811 resp. VDE 0473 and VDE 0472, UL 1581 and CSA C22.2		
EC directive	This cable is conform to EC-Directives 2006/95/EC (Low Voltage Directive) and 2011 / 65 / EU (RoHS, Restriction of the use of certain hazardous substances).		

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