

Multi-Standard SC 2.1

DB 4160100

valid from: 24.05.2012

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 resp. VDE 0298-300
(UL) MTW:	Acc. to ANSI / NFPA 70 (National Electrical Code)
UL (AWM):	Oil resistant wiring cable for internal wiring
CSA (TEW):	Oil resistant wiring cable for internal wiring of devices

Design

Design / Approvals

H07V-K ◀HAR▶ (*)	acc. to HD 21.3 S3+A1 resp. VDE 0281-3
(UL) MTW	acc. to UL 1063
UL (AWM) Style 1015	acc. to UL 758
CSA (TEW)	acc. to C22.2 No. 127

*For the dimensions 0.5; 0.75; 1.0 and 16 mm² and the colours GN, YE, BU/WH and WH/BU there is **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 C22.2

Core insulation

special PVC based compound

Electrical properties

Nominal voltage

HAR U ₀ /U:	450 / 750 V
UL/CSA:	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) MTW and	
UL (AWM):	VW-1
CSA :	FT1

Oil resistance

UL/CSA:	60°C oil rating
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Tests

acc. to IEC 60811, EN 50395, EN 50396, UL 1581 and CSA C22.2

EC-Directives

This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and ECD 2002/95/EC (RoHS, Restriction of the use of certain hazardous substances).