


4160100	DATA SHEET	
valid from: 06.02.2019	Multi-Standard SC 2.1	

Application

Multi-Standard SC 2.1 wiring cables 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-, 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 50565-2 (VDE 0298-565-2)

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

Certification	H07V-K <HAR> (*) acc. to DIN EN 50525-2-31 / VDE 0285-525-2-31 UL (AWM) acc. to UL 758, Style 1015 UL (MTW) acc. to UL 1063, File-No. E198296 CSA (TEW) acc. to C22.2 No. 127-15 *For the dimensions 0.5; 0.75; 1.0 and 16 mm ² 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
Insulation	special PVC-based compound

Electrical properties at 20°C

Rated voltage	HAR H07-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

Minimum 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): up to +90 °C max. conductor temp. UL (AWM): up to +105 °C max. conductor temp. CSA (TEW): up to +105 °C max. conductor temp.
Flammability	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 0473-811, EN 50395, UL 1581, UL 1063 and CSA C22.2
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

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