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 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

Insulation

special PVC-based compound

Electrical properties at 20°C

Rated voltage

HAR H07-K U₀/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)