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 acc. to ANSI/NFPA 70 (National Electrical Code)
- UL (MTW): oil resistant wiring cable for internal wiring of devices
- CSA (TEW): oil resistant wiring cable for internal wiring of devices

Design

Design / Approvals
- H07VxK ▲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 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 (X07VxK)!

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: U₀/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 0482-32-1-2
- 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).