



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 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, 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 0482-332-1-2
 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).