



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 U₀/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

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).