



## K-FLEX 7100 MTW THHW UL HAR ( Tinned conductors)

**Description :** Increased oil-resistant Control and Power supply single core cables, conforming to NFPA 79 2007 wiring norms and NEC Art. 402 or 310 manufactured according to UL 83 and UL 1063 MTW (Construction A).



**Construction :** Flexible tinned copper conductors according to CEI 20-29 Class 5, DIN-VDE 0295 K5, UL 83 and UL 1063 standard  
Special PVC Insulation compound type QMTT2

**Manufacturing's Controls:** Test and Control according to our certificated **ISO 9001-2015** CSQ-IMQ (EQ-NET) Quality System procedure.

Labor tests reports are stored in our internal Q.C. laboratory archive together with the production reports

**Norms :** Flame retardant, Test method B according to DIN VDE 0472 part 804, IEC 60332-1, UL VW-1 and CSA FT1

Construction according to:

- UL 83 type THHW ( Oil-resistant according to UL OIL RES I ) for sections starting from 14 AWG
- UL 1063 MTW Construction A for sections 18 and 16 AWG
- CSA type TW75 according CSA 75-14 Standard for Thermoplastic-Insulated Wires
- American and Canadian UL recognized UL AWM styles 1015 and CSA AWM I A
- CEI 20-20/3 4th Ed. 1996 + V1:2002 + V2:2009 and HD 21.3 S3:1995 + A1:1999 + A2:2008 - H05V-K / H05V2-K type for section 1,00 mm<sup>2</sup> and H07V-K / H07V2-K type for sections starting from 16 AWG

The cable is conform to Low Voltage Directive (LVD) 2014/35/EU CE

**Technical dates :**

- Nominal voltage: UL 600 V  
HAR H05V-K 300/500 V.  
HAR H07V-K 450/750 V.
- Spark Test voltage: 6000 V
- Fixed installation working temperature: UL -40°C to + 90°C HAR -40°C to +70°C
- Occasional flexing working temperature: UL -5°C to + 90°C HAR -5°C to +70°C
- Fixed installation minimum bending radius = 4 x cable Ø
- Occasional flexing minimum bending radius = 13 x cable Ø

**Use :** These power single core cables are especially suitable for export-orientated machinery. It is suitable for control equipment on machine tools subjected to medium mechanical stresses, for fixed or flexible installation, where free movement is required without tensile stresses and without forced guidance systems, in dry, damp and wet interiors (including water-oil mixtures).  
In accordance with NEC "National Electrical Code" Art. 402 (18 and 16 AWG) and Art. 310 (for bigger AWG)