

Control and connection cables

05V-K/MTW/TEW PVC insulated wiring cable

07V-K/H07V-K/MTW/TEW PVC insulated single conductor



AWM Style 1015/10519 105°C 600V VW-1 CSA Type TEW 105°C 600V FT1 CE



Marking for H07V-K/MTW/TEW 31670182:

SAB BRÖCKSKES · D-VIERSEN · <VDE><HAR> H07V-K 1,5mm² 16 AWG

UL Type MTW 600V AWM Style 1015/10519 105°C 600V VW-1 CSA Type TEW 105°C 600V FT1 CE

Construction:

Conductor:	tinned copper strands acc. to IEC 60228, VDE 0295, class 5
Insulation:	PVC, TI2 acc. to EN 50363-3 + VDE 0207-363-3
Colour:	black (RAL 9005)

Technical data:

Nominal voltage:	05V-K: U ₀ /U 300/500 V	07V-K/H07V-K: U ₀ /U 450/750 V
Voltage UL/CSA:	600 V	
Testing voltage 05V-K:	2000 V	
Testing voltage 07V-K/H07V-K:	2500 V	
Min. bending radius:	4 x d	
Temperature range	UL-AWM/CSA: up to +105 °C (UL) MTW: up to +90 °C DIN VDE -40/+70 °C +5/+70 °C	
<i>fixed laying:</i>		
<i>flexible application:</i>		
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL VW-1, CSA FT1	
Absence of harmful substances:	acc. to RoHS directive of the European Union, see chapter N „Technical data“	

Outstanding features:



- **05V-K: 300/500 V**
- **07V-K/H07V-K: 450/750 V**
- **UL recognized, (UL) listed, CSA approved**
- **HAR standardized, for several dimensions**
- **harmonised acc. to European standards, for several dimensions**
- **flexible conductor**
- **MTW (Machine Tool Wire)**
- **TEW (Thermoplastic Equipment Wire)**
- **NFPA 79 for industrial machinery**
- **H07V-K: with reference to BS 6231 type BK**

05V-K/MTW/TEW – UL/CSA/CE

item no.	nominal cross section mm ²	largest single wire ø mm	outer-ø approx. mm	copper figure kg/km	cable weight ≈ kg/km
31660114*	0,14	0,11	2,0	1,3	6
31660125*	0,25	0,16	2,2	2,4	7
31660134	0,34	0,16	2,3	3,3	8
31660150	0,50	0,21	2,5	5,1	10
31660175	0,75	0,21	2,7	7,2	13
31660180	1,00	0,21	2,8	9,6	15

*without MTW

Other dimensions and colours are possible on request.

H07V-K/MTW/TEW – HAR/UL/CSA/CE

item no.	nominal cross section mm ²	largest single wire ø mm	outer-ø approx. mm	copper figure kg/km	cable weight ≈ kg/km
31670182	1,50	0,26	3,1	14,4	20
31670184	2,50	0,26	3,6	24,0	30
31670186	4,00	0,31	4,2	38,4	45
31670187	6,00	0,31	4,7	57,6	63
31670188	10,00	0,41	6,6	96,0	113

Other dimensions and colours are possible on request.

Cross sections with HAR are not allowed in plain green or plain yellow. If required, those colours would be marked without HAR.

07V-K/MTW/TEW – UL/CSA/CE

item no.	nominal cross section mm ²	largest single wire ø mm	outer-ø approx. mm	copper figure kg/km	cable weight ≈ kg/km
31670189	16,00	0,41	8,4	153,6	187
31670190	25,00	0,41	10,1	240,0	270
31670191	35,00	0,41	11,5	336,0	373
31670192	50,00	0,41	13,8	480,0	552
31670193	70,00	0,41	16,1	672,0	735
31670194	95,00	0,51	18,2	912,0	981
31670195	120,00	0,51	20,1	1152,0	1202

Other dimensions and colours are possible on request.