

Control and connection cables

H05V-K/MTW/TEW PVC-insulated wiring cable

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 H05V-K/MTW/TEW 31660180:

SAB BRÖCKSKES · D-VIERSEN · <VDE> <HAR> H05V-K 1,0mm² 18 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)

Outstanding features:



- **H05V-K: 300/500 V**
- **H07V-K: 450/750 V**
- **HAR standardized**
- **UL recognized, (UL) listed, CSA approved**
- **flexible conductor**
- **harmonised acc. to European standards**
- **MTW (Machine Tool Wire)**
- **TEW (Thermoplastic Equipment Wire)**
- **NFPA 79 for industrial machinery**
- **H05V-K and H07V-K: with reference to BS 6231 type BK**

Technical data:

Nominal voltage:	H05V-K: U ₀ /U 300/500 V	H07V-K: U ₀ /U 450/750 V
Voltage UL/CSA:	600 V	
Testing voltage H05V-K:	2000 V	
Testing voltage 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 flexible application: +5/+70 °C	
fixed laying:		
flexible application:		
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“	

H05V-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	9

*without MTW

Other dimensions and colours are possible on request.

H05V-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
31660150	0,50	0,21	2,5	5,1	11
31660175	0,75	0,21	2,7	7,2	14
31660180	1,00	0,21	2,8	9,6	16

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	3,7	24,0	32
31670186	4,00	0,31	4,3	38,4	50
31670187	6,00	0,31	4,8	57,6	66
31670188	10,00	0,41	6,8	96,0	121
31670189	16,00	0,41	9,1	153,6	211
31670190	25,00	0,41	10,6	240,0	303
31670191	35,00	0,41	11,8	336,0	407
31670192	50,00	0,41	15,2	480,0	600
31670193	70,00	0,41	16,2	672,0	790
31670194	95,00	0,51	19,3	912,0	1067
31670195	120,00	0,51	20,8	1152,0	1277

Other dimensions and colours are possible on request.