

# Control and connection cables

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

**07V-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 05V-K/MTW/TEW 31660180:

SAB BRÖCKSKES · D-VIERSEN · 05V-K 1,0mm<sup>2</sup> 18 AWG (UL)

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

## Construction:

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

## Outstanding features:

- 05V-K: 300/500 V
- 07V-K: 450/750 V
- UL recognized, (UL) listed, CSA approved
- flexible conductor
- MTW (Machine Tool Wire)
- TEW (Thermoplastic Equipment Wire)
- NFPA 79 for industrial machinery

## Technical data:

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

### 05V-K/MTW/TEW – UL/CSA/CE

item no.	nominal cross section mm <sup>2</sup>	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.

### 05V-K/MTW/TEW – UL/CSA/CE

item no.	nominal cross section mm <sup>2</sup>	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.

### 07V-K/MTW/TEW – UL/CSA/CE

item no.	nominal cross section mm <sup>2</sup>	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.