

European Standardized Cables

05V-K/H05V-K/MTW/TEW Harmonized PVC hook-up wire tri-rated, 300/500 V

H07V-K/MTW/TEW Harmonized PVC hook-up wire tri-rated, 450/750 V



00V AWM Style 1015/10519 105°C 600V VW-1 CSA Type TEW 105°C 600V FT1 CE



Marking for H05V-K/MTW/TEW 3166D180:

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, T12 acc. to EN 50363-3 + VDE 0207-363-3
Color code:	see color code chart below

Outstanding features:

- flexing single conductor
- harmonized acc. to European standards
- MTW (Machine Tool Wire)
- TEW (Thermoplastic Equipment Wire)
- H05V-K & H07V-K: with reference to BS 6231 type BK

Technical data:

Nominal voltage:	05V-K & H05V-K U ₀ /U 300/500 V	H07V-K U ₀ /U 450/750 V
Voltage UL/CSA:	600 V	
Testing voltage:	05V-K & H05V-K 2000 V	H07V-K 2500 V
Min. bending radius:	4 x O.D.	
Temperature range:	DIN VDE static: flexible:	UL-AWM/CSA up to +105°C up to +105°C
		(UL) MTW up to +90°C up to +90°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL VW-1, CSA FT1	
Approvals:		
<i>05V-K/MTW/TEW:</i>	<u>26 - 24 AWG:</u> UR AWM, CSA, CE, RoHS <u>22 AWG:</u> UL MTW, UR AWM, CSA, CE, RoHS	
<i>H05V-K/MTW/TEW:</i>	HAR, UL MTW, UR AWM, CSA, CE, RoHS	
<i>H07V-K/MTW/TEW:</i>	<u>16 - 2 AWG:</u> HAR, UL MTW, UR AWM, CSA, CE, RoHS <u>1 - 4/0 AWG:</u> UL MTW, UR AWM, CSA, CE, RoHS	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

05V-K/MTW/TEW - UL/CSA/CE

item no.	mm ²	AWG	nominal outer-ø		cable weight
			inch	mm	≈lbs/mft
▶ 3166 .. 14*	0.14	26 (≈ 18/38)	0.079	2.0	4
▶ 3166 .. 25*	0.25	24 (≈ 14/34)	0.087	2.2	5
▶ 3166 .. 34	0.34	22 (≈ 7/30)	0.091	2.3	6

* without MTW

Other colors are available on request

H05V-K/MTW/TEW - HAR/UL/CSA/CE

item no.	mm ²	AWG	nominal outer-ø		cable weight
			inch	mm	≈lbs/mft
▶ 3166 .. 50	0.50	20 (≈ 16/32)	0.098	2.5	7
▶ 3166 .. 75	0.75	19 (≈ 23/32)	0.106	2.7	9
▶ 3166 .. 80	1.00	18 (≈ 30/32)	0.110	2.8	11

Other colors are available on request

Color code for single conductors:

01 = black	06 = green ¹	16 = dark blue
02 = blue	07 = violet	17 = pink
03 = brown	08 = white	27 = green/yellow
04 = gray	09 = orange	32 = blue/white ¹
05 = yellow ¹	11 = red	63 = white/blue ¹

¹Non <HAR> approved

H07V-K/MTW/TEW - HAR/UL/CSA/CE

item no.	mm ²	AWG	nominal outer-ø		cable weight
			inch	mm	≈lbs/mft
▶ 3167 .. 82	1.50	16 (≈ 27/30)	0.122	3.1	13
▶ 3167 .. 84	2.50	14 (≈ 46/30)	0.146	3.7	22
▶ 3167 .. 86	4.00	12 (≈ 52/28)	0.169	4.3	34
▶ 3167 .. 87	6.00	10 (≈ 78/28)	0.189	4.8	44
▶ 3167 .. 88	10.00	8 (≈ 77/26)	0.268	6.8	81
▶ 3167 .. 89	16.00	6 (≈ 122/26)	0.358	9.1	142
▶ 3167 .. 90	25.00	4 (≈ 190/26)	0.417	10.6	204
▶ 3167 .. 91	35.00	2 (≈ 272/26)	0.465	11.8	273

Other colors are available on request

H07V-K/MTW/TEW - UL/CSA/CE

item no.	mm ²	AWG	nominal outer-ø		cable weight
			inch	mm	≈lbs/mft
▶ 3167 .. 92	50.00	1 (≈ 400/26)	0.598	15.2	403
▶ 3167 .. 93	70.00	2/0 (≈ 543/26)	0.638	16.2	531
▶ 3167 .. 94	95.00	3/0 (≈ 484/24)	0.760	19.3	717
▶ 3167 .. 95	120.00	4/0 (≈ 589/24)	0.819	20.8	858

Other colors are available on request