

EUROPEAN STANDARDIZED CABLES

**H05V-K/MTW/TEW
H07V-K/MTW/TEW**

Harmonized PVC hook-up wire tri-rated
300/500 volts and 450/750 volts



600 V AWM Style 1015/10519 105°C 600V VW1 CSA Type TEW 105°C 600V FT

Marking for H05V-K/MTW/TEW 31660150

< VDE > < HAR > H05V-K (UL) Type MTW 600 V AWM Style 1015 105°C 600V VW1 CSA Type TEW 105°C 600V FT 1 CE

One product with all the required standards for the North American and European markets. Recommended for use in electronic and electrical equipment designed for North America and Europe.

Construction:

Conductor:	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	PVC T11 acc. to DIN VDE 0281 part 1 + HD 21.1
H05V-K:	HAR/UL/CSA/CE from 20 AWG - 18 AWG 05V-K from 26 AWG - 22 AWG
H07V-K:	HAR/UL/CSA/CE from 16 AWG - 2 AWG 07V-K from 16 AWG - 4/0 AWG
Color:	see color code chart*

Outstanding features:

- ▶ flexing single conductor
- ▶ harmonized acc. to European standards
- ▶ MTW (Machine Tool Wire)
- ▶ TEW (Thermoplastic Equipment Wire)

Technical data:

Nominal voltage H05V-K:	DIN VDE Uo/U 300/500 V	UL/CSA 600 V
Nominal voltage H07V-K:	DIN VDE Uo/U 450/750 V	UL/CSA 600 V
Testing voltage H05V-K:	2000 V acc. to DIN VDE 0281 part 2 + HD 21.2	
Testing voltage H07V-K:	2500 V acc. to DIN VDE 0281 part 2 + HD 21.2	
Min. bending radius:	4 x O.D.	
Temperature range	DIN VDE	UL-AWM/CSA (UL) MTW
<i>static:</i>	-40/+70°C	up to +105°C up to +90°C
<i>flexible:</i>	+5/+70°C	up to +105°C up to +90°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2, UL VW-1 and CSA FT1	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/29	

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

item no.	mm ²	AWG	nominal inch	outer-Ø mm	cable weight ≈ 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

Other colors are possible on request.

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

item no.	mm ²	AWG	nominal inch	outer-Ø mm	cable weight ≈ 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	274

Other colors are possible on request.

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

item no.	mm ²	AWG	nominal inch	outer-Ø mm	cable weight ≈ 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 possible on request.

07V-K / MTW / TEW - UL / CSA / CE

item no.	mm ²	AWG	nominal inch	outer-Ø mm	cable weight ≈ 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 possible on request.

* Color code for single conductors:

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