

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 FT1

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 FT1 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 <i>static:</i>	DIN VDE -40/+70°C	UL-AWM/CSA up to +105°C
<i>flexible:</i>	+5/+70°C	(UL) MTW 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/30	

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
▶ 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.

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.

* 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

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