



HELUKABEL <VDE> <HAR> 07V2 CE (UL) MTW OR AWM Style 1015 OR MTW...AWG CSA — AWM I A/B 105°C 600 V FT1 OR TEW

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## Technical data

- PVC-single cores according to DIN VDE 0281 part 3 and HD 21.3 S3, UL-Std. 1063, UL-Style 1015 and CSA-TEW and CSA-AWM I/A/B
- **Temperature range<sup>2)</sup>**
  - H05 V2-K/H07 V-K flexing + 5°C to + 90°C
  - fixed installation –10°C to +105°C
  - UL/CSA +105°C
- **Nominal voltage**
  - H05 V2-K U<sub>0</sub>/U 300/500 V (≤ 1 mm<sup>2</sup>)
  - H07 V2-K U<sub>0</sub>/U 450/750 V (≥ 1,5 mm<sup>2</sup>)
  - UL/CSA 600 V AC, 750 V DC
- **Test voltage**
  - H05 V2-K/H07 V2-K 2000 V
- **Spark Test**
  - AWG 20 : 5 kV
  - >AWG 20 : 6 kV
- **Insulation resistance**
  - min. 20 MOhm×km
- **Minimum bending radius**
  - for permanent bending ca. 10 – 15x core ∅

## Cable structure

- Bare copper fine wire<sup>1)</sup> stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5, HD 383 and IEC 60228 cl. 5 and UL-Subject 758 Section G
- PVC core insulation T13 to DIN VDE 0281 part 1 and UL-Std. 1581, class 43, CSA-C 22.2 No. 210 Tab. 12 class H
- Core colours to DIN VDE 0293
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/EN 50265-2-1/IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B), CSA FT1
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

<sup>1)</sup> Tinned conductor on request

## Application

Five norms approved connecting jumper wire primarily designed for export, used in machine tools. This wire is used for internal wiring of switchboards and electrical equipment. The approbation of HAR, UL-AWM, UL-MTW, CSA-AWM, CSA-Equipment-wire make possible an economical storekeeping and simplification of parts list.

**\*\* Note**  
AWG equivalent values – see page T 15.

PVC cables will be changed to lead free PVC successively.

= The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Type cross-sec.	Outer ∅ mm	Cop. weight kg/km	black-white	gn-ye	blue	brown	red	white	grey	viol.	yellow	pink	green	trans.	dark blue	orange	other colours	twintone
<b>ca. RAL</b>			9005	6018/1021	5015	8003	3000	1013	7000	4005	1021	3015	6018	–	5010	2003	–	–
<b>H05 V2-K/mm<sup>2</sup></b>																		
Part No.			64075	64076	64077	64078	64079	64080	64081	64082	64083	64084	64085	64086	64087	64088	64089	64090
0,5/AWG 20	2,5	4,8																
Part No.			64091	64092	64093	64094	64095	64096	64097	64098	64099	64100	64101	64102	64103	64104	64105	64106
0,75/AWG 19	2,65	7,2																
Part No.			64107	64108	64109	64110	64111	64112	64113	64114	64115	64116	64117	64118	64119	64120	64121	64122
1/AWG 18	2,8	9,6																
<b>H07 V2-K/mm<sup>2</sup></b>																		
Part No.			64123	64124	64125	64126	64127	64128	64129	64130	64131	64132	64133	64134	64135	64136	64137	64138
1,5/AWG 16	3,05	14,4																
Part No.			64139	64140	64141	64142	64143	64144	64145	64146	64147	64148	64149	64150	64151	64152	64153	64154
2,5/AWG 14	3,6	24,0																
Part No.			64155	64156	64157	64158	64159	64160	64161	64162	64163	64164	64165	64166	64167	64168	64169	64170
4/AWG 12	4,1	38,0																
Part No.			64171	64172	64173	64174	64175	64176	64177	64178	64179	64180	64181	64182	64183	64184	64185	64186
6/AWG 10	4,8	58,0																
Part No.			64187	64188	64189	64190	64191	64192	64193	64194	64195	64196	64197	64198	64199	64200	64201	64202
10/AWG 8	6,4	96,0																
Part No.			64203	64204	64205	64206	64207	64208	64209	64210	64211	64212	64213	64214	64215	64216	64217	64218
16/AWG 6	8,1	154,0																
Part No.			64219	64220	64221	64222	64223	64224	64225	64226	64227	64228	64229	64230	64231	64232	64233	64234
25/AWG 4	9,6	240,0																
Part No.			64235	64236	64237	64238	64239	64240	64241	64242	64243	64244	64245	64246	64247	64248	64249	64250
35/AWG 2	10,8	336,0																
<b>H07 V-K/mm<sup>2</sup></b>																		
Part No.			64251	64252	64253	64254	64255	64256	64257	64258	64259	64260	64261	64262	64263	64264	64265	64266
50/AWG 1	13,6	480,0																
Part No.			64267	64268	64269	64270	64271	64272	64273	64274	64275	64276	64277	64278	64279	64280	64281	64282
70/AWG 2/0	15,2	672,0																
Part No.			64283	64284	64285	64286	64287	64288	64289	64290	64291	64292	64293	64294	64295	64296	64297	64298
95/AWG 3/0	16,8	912,0																
Part No.			64299	64300	64301	64302	64303	64304	64305	64306	64307	64308	64309	64310	64311	64312	64313	64314
120/AWG 4/0	19,5	1152,0																
Part No.			64315	64316	64317	64318	64319	64320	64321	64322	64323	64324	64325	64326	64327	64228	64329	64330
150/300 kcmil	22,2	1440,0																

<sup>2)</sup> The cross-sections 0,5, 0,75 and 1,0 mm<sup>2</sup> are according to H05 V-K, the cross-sections 1,5 up to 35 mm<sup>2</sup> according to H07 V-K, the cross-sections > 35 mm<sup>2</sup> are identified as H07V-K. Cross-sections up to 35 mm<sup>2</sup> is according to DIN VDE 0281 part 5. Due to this cross-sections > 35 mm<sup>2</sup> is the type H07VK, but with an increased heat-resistant PVC-compound.