

FIVENORM

**HAR-UL-CSA-AWM-MTW, PVC single core,
UL Style 10269 / UL Standard 1063, 600 V, 105°C**



	HELUKABEL <VDE><HAR> H07V2	(UL) MTW OR	AWM	STYLE	10269	CSA — AWM I A/B 105°C 600 V FT1 OR TEW	CE
	HELUKABEL <VDE><HAR> H07V2	(UL) MTW OR	AWM	STYLE	10269	CSA — AWM I A/B 105°C 600 V FT1 OR TEW	CE
	HELUKABEL <VDE><HAR> H07V2	(UL) MTW OR	AWM	STYLE	10269	CSA — AWM I A/B 105°C 600 V FT1 OR TEW	CE
	HELUKABEL <VDE><HAR> H07V2	(UL) MTW OR	AWM	STYLE	10269	CSA — AWM I A/B 105°C 600 V FT1 OR TEW	CE

Technical data

- PVC-single cores acc. to
DIN VDE 0285-525-2-31 /
DIN EN 50525-2-31 / UL Std.1063 /
UL Style 10269 (thereby Style 1015
extended) and CSA-TEW and
CSA-AWM I A/B
- **Temperature range**
H05V2-K / H07V2-K
flexing +5°C to +90°C
fixed installation -40°C to +90°C
UL (AWM) -40°C to +105°C
UL (MTW) -40°C to +90°C
CSA (TEW) -40°C to +105°C
- **Nominal voltage**
up to 1 mm² H05V2-K U₀/U 300/500 V
from 1,5 mm² H07V2-K U₀/U 450/750 V
UL (AWM) 1000 V (AC)
UL (AWM) 1250 V (DC)
UL (MTW) 600 V
CSA (TEW) 600 V
- **Test voltage**
H05V2-K 2000 V
H07V2-K 2500 V
- **Test voltage** (Spark Test)
0,5 mm² 5 kV
≥ 0,75 mm² 6 kV
- **Minimum bending radius**
fixed installation for outer Ø:
≤ 8 mm: 4x outer Ø
> 8-12 mm: 5x outer Ø
> 12 mm: 6x outer Ø

Cable structure

- Bare copper conductor,
fine wire acc. to
DIN VDE 0295 Kl.5 / IEC 60228 cl.5 /
UL Std.758
- Core insulation of PVC
compound type TI3 acc. to
DIN VDE 0207-363-3 / DIN EN 50363-3
CSA C22.2 No.210 tab.12 class H
and class 43 acc. to UL Std.1581
- Core identification: see table

Properties

- The materials used during manufacturing
are cadmium-free, contain no silicone
and are free from substances harmful
to the wetting properties of lacquers

Tests

- Flame retardant acc. to
DIN VDE 0482-332-1-2 /
DIN EN 60332-1-2 / IEC 60332-1-2 /
UL VW-1 / CSA FT1

Note

- 150 mm² / 300 kcmil
without CSA TEW approval
- Cross sections up to 35 mm² is
acc. to DIN VDE 0285-525-2-31.
- H05V2-K 0,5 mm² up to 1 mm²
- H07V2-K 1,5 mm² up to 35 mm²
- Due to this cross section > 35 mm² with
an heat-resistant PVC-compound TI3
- H07V-K 50 mm² up to 150 mm²
- **Type H05V2-K:**
- approved one-colour marking: black, blue,
brown, grey, orange, pink, red, turquoise,
violet, white, green and yellow.
- two-coloured marking in any combination
of the above individual colours
- transparent marking only in reference to
designation 05V2-K
- **Type H07V2-K:**
- approved marking: black, blue, brown,
grey, orange, pink, red, turquoise, violet,
white and green-yellow.
- marking yellow, green, transparent and
bicoloured only in reference to designa-
tion 07V2-K / from 50 mm² 07V-K

Application

Five norms approved connecting jumper wire primarily designed for exportes, used in machine tools. The approbation of HAR, UL-AWM, UL-MTW, CSA-AWM, CSA-Equipment-wire make possible an economical storekeeping and simplification of parts list.

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

Continuation ►

FIVENORM

**HAR-UL-CSA-AWM-MTW, PVC single core,
UL Style 10269 / UL Standard 1063, 600 V, 105°C**



Cross-sec. mm ² / AWG-no.	Outer Ø app. mm	Cop. weight kg / km	Price EUR% Cu 150,- BK	Price EUR% Cu 150,- GN-YE	Price EUR% Cu 150,- BU	Price EUR% Cu 150,- BN	Price EUR% Cu 150,- RD	Price EUR% Cu 150,- WH	Price EUR% Cu 150,- GY	Price EUR% Cu 150,- VT	Price EUR% Cu 150,- YE	Price EUR% Cu 150,- PK
app. RAL			9005		5015	8003	3000	9010	7001	4005	1021	3015
Part no. 0,5 / 22	2,5	4,8	64075	64076	64077	64078	64079	64080	64081	64082	64083	64084
Part no. 0,75 / 20	2,65	7,2	64091	64092	64093	64094	64095	64096	64097	64098	64099	64100
Part no. 1 / 18	2,8	9,6	64107	64108	64109	64110	64111	64112	64113	64114	64115	64116
Part no. 1,5 / 16	3,05	14,4	64123	64124	64125	64126	64127	64128	64129	64130	64131	64132
Part no. 2,5 / 14	3,6	24,0	64139	64140	64141	64142	64143	64144	64145	64146	64147	64148
Part no. 4 / 12	4,1	38,0	64155	64156	64157	64158	64159	64160	64161	64162	64163	64164
Part no. 6 / 10	4,8	58,0	64171	64172	64173	64174	64175	64176	64177	64178	64179	64180
Part no. 10 / 8	6,6	96,0	64187	64188	64189	64190	64191	64192	64193	64194	64195	64196
Part no. 16 / 6	8,1	154,0	64203	64204	64205	64206	64207	64208	64209	64210	64211	64212
Part no. 25 / 4	9,8	240,0	64219	64220	64221	64222	64223	64224	64225	64226	64227	64228
Part no. 35 / 2	10,9	336,0	64235	64236	64237	64238	64239	64240	64241	64242	64243	64244
Part no. 50 / 1	13,6	480,0	64251	64252	64253	64254	64255	64256	64257	64258	64259	64260
Part no. 70 / 2/0	15,6	672,0	64267	64268	64269	64270	64271	64272	64273	64274	64275	64276
Part no. 95 / 3/0	17,1	912,0	64283	64284	64285	64286	64287	64288	64289	64290	64291	64292
Part no. 120 / 4/0	19,0	1152,0	64299	64300	64301	64302	64303	64304	64305	64306	64307	64308
Part no. 150 / 300 kcmil	22,5	1440,0	64315	64316	64317	64318	64319	64320	64321	64322	64323	64324

Cross-sec. mm ² / AWG-no.	Outer Ø app. mm	Cop. weight kg / km	Price EUR% Cu 150,- GN	Price EUR% Cu 150,- OG	Price EUR% Cu 150,- D-BU	Price EUR% Cu 150,- TRANS
app. RAL			6018	2003	5010	
Part no. 0,5 / 22	2,5	4,8	64085	64088	64087	64086
Part no. 0,75 / 20	2,65	7,2	64101	64104	64103	64102
Part no. 1 / 18	2,8	9,6	64117	64120	64119	64118
Part no. 1,5 / 16	3,05	14,4	64133	64136	64135	64134
Part no. 2,5 / 14	3,6	24,0	64149	64152	64151	64150
Part no. 4 / 12	4,1	38,0	64165	64168	64167	64166
Part no. 6 / 10	4,8	58,0	64181	64184	64183	64182
Part no. 10 / 8	6,6	96,0	64197	64200	64199	64198
Part no. 16 / 6	8,1	154,0	64213	64216	64215	64214
Part no. 25 / 4	9,8	240,0	64229	64232	64231	64230
Part no. 35 / 2	10,9	336,0	64245	64248	64247	64246
Part no. 50 / 1	13,6	480,0	64261	64264	64263	64262
Part no. 70 / 2/0	15,6	672,0	64277	64280	64279	64278
Part no. 95 / 3/0	17,1	912,0	64293	64296	64295	64294
Part no. 120 / 4/0	19,0	1152,0	64309	64312	64311	64310
Part no. 150 / 300 kcmil	22,5	1440,0	64325	64328	64327	64326

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**HAR-UL-CSA-AWM-MTW, PVC single core,
UL Style 10269 / UL Standard 1063, 600 V, 105°C**



Coil in cardboard (100m)

Cross-sec. mm ² / AWG-no.	Outer Ø app. mm	Cop. weight kg / km	Price EUR% Cu 150,- BK	Price EUR% Cu 150,- GN-YE	Price EUR% Cu 150,- BU	Price EUR% Cu 150,- BN	Price EUR% Cu 150,- RD	Price EUR% Cu 150,- WH	Price EUR% Cu 150,- GY	Price EUR% Cu 150,- VT	Price EUR% Cu 150,- YE	Price EUR% Cu 150,- PK
app. RAL			9005		5015	8003	3000	9010	7001	4005	1021	3015
Part no. 0,5 / 22	2,5	4,8	11019300	11019301	11019302	11019303	11019304	11019305	11019306	11019307	11019308	11019309
Part no. 0,75 / 20	2,65	7,2	11019335	11019336	11019337	11019338	11019339	11019340	11019341	11019342	11019343	11019344
Part no. 1 / 18	2,8	9,6	11019370	11019371	11019372	11019373	11019374	11019375	11019376	11019377	11019378	11019379
Part no. 1,5 / 16	3,05	14,4	11019405	11019406	11019407	11019408	11019409	11019410	11019411	11019412	11019413	11019414
Part no. 2,5 / 14	3,6	24,0	11019440	11019441	11019442	11019443	11019444	11019445	11019446	11019447	11019448	11019449
Part no. 4 / 12	4,1	38,0	11019475	11019476	11019477	11019478	11019479	11019480	11019481	11019482	11019483	11019484
Part no. 6 / 10	4,8	58,0	11019510	11019511	11019512	11019513	11019514	11019515	11019516	11019517	11019518	11019519

Coil in cardboard (100m)

Cross-sec. mm ² / AWG-no.	Outer Ø app. mm	Cop. weight kg / km	Price EUR% Cu 150,- GN	Price EUR% Cu 150,- OG	Price EUR% Cu 150,- D-BU	Price EUR% Cu 150,- TRANS	Price EUR% Cu 150,- TQ
app. RAL			6018	2003	5010		5018
Part no. 0,5 / 22	2,5	4,8	11019310	11019312	11019311	11019314	11019313
Part no. 0,75 / 20	2,65	7,2	11019345	11019347	11019346	11019349	11019348
Part no. 1 / 18	2,8	9,6	11019380	11019382	11019381	11019384	11019383
Part no. 1,5 / 16	3,05	14,4	11019415	11019417	11019416	11019419	11019418
Part no. 2,5 / 14	3,6	24,0	11019450	11019452	11019451	11019454	11019453
Part no. 4 / 12	4,1	38,0	11019485	11019487	11019486	11019489	11019488
Part no. 6 / 10	4,8	58,0	11019520	11019522	11019521	11019524	11019523

Barrel (with various capacity)

Cross-sec. mm ² / AWG-no.	Outer Ø app. mm	Cop. weight kg / km	Price EUR% Cu 150,- BK	Price EUR% Cu 150,- GN-YE	Price EUR% Cu 150,- BU	Price EUR% Cu 150,- BN	Price EUR% Cu 150,- RD	Price EUR% Cu 150,- WH	Price EUR% Cu 150,- GY	Price EUR% Cu 150,- VT	Price EUR% Cu 150,- YE	Price EUR% Cu 150,- PK
app. RAL			9005		5015	8003	3000	9010	7001	4005	1021	3015
Part no. 0,5 / 22	2,5	4,8	65402	65403	65404	65405	65406	65407	65408	65409	65413	65410
Part no. 0,75 / 20	2,65	7,2	65415	65416	65417	65418	65419	65420	65421	65422	65426	65423
Part no. 1 / 18	2,8	9,6	65428	65429	65430	65431	65432	65433	65434	65435	65439	65436
Part no. 1,5 / 16	3,05	14,4	65441	65442	65443	65444	65445	65446	65447	65448	65452	65449
Part no. 2,5 / 14	3,6	24,0	65454	65455	65456	65457	65458	65459	65460	65461	65465	65462
Part no. 4 / 12	4,1	38,0	65467	65468	65469	65470	65471	65472	65473	65474	65478	65475
Part no. 6 / 10	4,8	58,0	65550	65551	65552	65553	65554	65555	65556	65557	65558	65559

Barrel (with various capacity)

Cross-sec. mm ² / AWG-no.	Outer Ø app. mm	Cop. weight kg / km	Price EUR% Cu 150,- GN	Price EUR% Cu 150,- OG	Price EUR% Cu 150,- D-BU
app. RAL			6018	2003	5010
Part no. 0,5 / 22	2,5	4,8	65412	65411	65414
Part no. 0,75 / 20	2,65	7,2	65425	65424	65427
Part no. 1 / 18	2,8	9,6	65438	65437	65440
Part no. 1,5 / 16	3,05	14,4	65451	65450	65453
Part no. 2,5 / 14	3,6	24,0	65464	65463	65466
Part no. 4 / 12	4,1	38,0	65477	65476	65479
Part no. 6 / 10	4,8	58,0	65560	65562	65561

Continuation ►

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**HAR-UL-CSA-AWM-MTW, PVC single core,
UL Style 10269 / UL Standard 1063, 600 V, 105°C**



Two colour

Cross-sec. mm ² / AWG-no.	Outer Ø app. mm	Cop. weight kg / km	Price EUR% Cu 150,- BU/WH	Price EUR% Cu 150,- WH/BU	Price EUR% Cu 150,- D-BU/WH	Price EUR% Cu 150,- WH/OG	Price EUR% Cu 150,- WH/RD	Price EUR% Cu 150,- BK/OG	Price EUR% Cu 150,- D-BU/OG	Price EUR% Cu 150,- RD/WH	Price EUR% Cu 150,- WH/D-BU	Price EUR% Cu 150,- YE/BN
app. RAL												
Part no. 0,5 / 22	2,5	4,8	-	-	-	-	-	-	-	-	-	-
Part no. 0,75 / 20	2,65	7,2	-	-	-	-	-	-	-	-	-	-
Part no. 1 / 18	2,8	9,6	63412	63413	63414	63415	63416	63484	63334	63354	63374	65388
Part no. 1,5 / 16	3,05	14,4	63417	63418	63419	63420	63421	63485	63335	63355	63375	65389
Part no. 2,5 / 14	3,6	24,0	63422	63423	63424	63425	63426	63486	63336	63356	63376	65390
Part no. 4 / 12	4,1	38,0	63427	63428	63429	63430	63431	63487	63337	63357	63377	65391
Part no. 6 / 10	4,8	58,0	63432	63433	63434	63435	63436	63488	63338	63358	63378	65392
Part no. 10 / 8	6,6	96,0	63437	63438	63439	63440	63441	63489	63339	63359	63379	65393
Part no. 16 / 6	8,1	154,0	63442	63443	63444	63445	63446	63490	63340	63360	63380	65394
Part no. 25 / 4	9,8	240,0	63447	63448	63449	63450	63451	63491	63342	63362	63382	65395
Part no. 35 / 2	10,9	336,0	63452	63453	63454	63455	63456	63492	63343	63363	63383	65396
Part no. 50 / 1	13,6	480,0	63457	63458	63459	63460	63461	63493	63344	63364	63384	65397
Part no. 70 / 2/0	15,6	627,0	63462	63463	63464	63465	63466	63494	63345	63365	63385	65398
Part no. 95 / 3/0	17,1	912,0	63467	63468	63469	63470	63471	63495	63346	63366	63386	65499
Part no. 120 / 4/0	19,0	1152,0	63472	63473	63474	63475	63476	63496	63347	63367	63387	65400
Part no. 150 / 300 kcmil	22,5	1440,0	63477	63478	63479	63480	63481	63497	63348	63368	63388	65401

Two colour

Cross-sec. mm ² / AWG-no.	Outer Ø app. mm	Cop. weight kg / km	Price EUR% Cu 150,- WH/YE	Price EUR% Cu 150,- OG/D-BU	Price EUR% Cu 150,- YE/BU	Price EUR% Cu 150,- BU/OG	Price EUR% Cu 150,- OG/RD	Price EUR% Cu 150,- OG/BK	Price EUR% Cu 150,- OG/WH	Price EUR% Cu 150,- YE/RD	Price EUR% Cu 150,- BK/YE	Price EUR% Cu 150,- OG/BU
app. RAL												
Part no. 0,5 / 22	2,5	4,8	69827	69828	69829	69830	69831	69832	69833	69834	69835	69625
Part no. 0,75 / 20	2,65	7,2	69836	69837	69838	69839	69840	69841	69842	69843	69844	69626
Part no. 1 / 18	2,8	9,6	69845	69846	69847	69848	69849	69850	69851	69852	69853	69627
Part no. 1,5 / 16	3,05	14,4	69854	69855	69856	69857	69858	69859	69860	69861	69862	69628
Part no. 2,5 / 14	3,6	24,0	69863	69864	69865	69866	69867	69868	69869	69870	69871	69629
Part no. 4 / 12	4,1	38,0	69872	69873	69874	69875	69876	69877	69878	69879	69880	69630
Part no. 6 / 10	4,8	58,0	69881	69882	69883	69884	69885	69886	69887	69888	69889	69655
Part no. 10 / 8	6,6	96,0	69890	69891	69892	69893	69894	69895	69896	69897	69898	69656
Part no. 16 / 6	8,1	154,0	69899	69900	69901	69902	69903	69904	69905	69906	69907	69657

Two colour, coil in cardboard (100m)

Cross-sec. mm ² / AWG-no.	Outer Ø app. mm	Cop. weight kg / km	Price EUR% Cu 150,- BU/WH	Price EUR% Cu 150,- WH/BU	Price EUR% Cu 150,- D-BU/WH	Price EUR% Cu 150,- WH/OG	Price EUR% Cu 150,- WH/RD	Price EUR% Cu 150,- BK/OG	Price EUR% Cu 150,- D-BU/OG	Price EUR% Cu 150,- RD/WH	Price EUR% Cu 150,- WH/D-BU	Price EUR% Cu 150,- YE/BN
app. RAL												
Part no. 0,5 / 22	2,5	4,8	11019315	11019316	11019317	11019318	11019319	11019320	11019321	11019322	11019323	11019324
Part no. 0,75 / 20	2,65	7,2	11019350	11019351	11019352	11019353	11019354	11019355	11019356	11019357	11019358	11019359
Part no. 1 / 18	2,8	9,6	11019385	11019386	11019387	11019388	11019389	11019390	11019391	11019392	11019393	11019394
Part no. 1,5 / 16	3,05	14,4	11019420	11019421	11019422	11019423	11019424	11019425	11019426	11019427	11019428	11019429
Part no. 2,5 / 14	3,6	24,0	11019455	11019456	11019457	11019458	11019459	11019460	11019461	11019462	11019463	11019464
Part no. 4 / 12	4,1	38,0	11019490	11019491	11019492	11019493	11019494	11019495	11019496	11019497	11019498	11019499
Part no. 6 / 10	4,8	58,0	11019525	11019526	11019527	11019528	11019529	11019530	11019531	11019532	11019533	11019534

Continuation ►

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**HAR-UL-CSA-AWM-MTW, PVC single core,
UL Style 10269 / UL Standard 1063, 600 V, 105°C**



Two colour, coil in cardboard (100m)

Cross-sec. mm ² / AWG-no.	Outer Ø app. mm	Cop. weight kg / km	Price EUR% Cu 150,- WH/YE	Price EUR% Cu 150,- OG/D-BU	Price EUR% Cu 150,- YE/BU	Price EUR% Cu 150,- BU/OG	Price EUR% Cu 150,- OG/RD	Price EUR% Cu 150,- OG/BK	Price EUR% Cu 150,- OG/WH	Price EUR% Cu 150,- YE/RD	Price EUR% Cu 150,- BK/YE	Price EUR% Cu 150,- OG/BU
app. RAL												
Part no. 0,5 / 22	2,5	4,8	11019326	11019327	11019328	11019329	11019330	11019331	11019332	11019333	11019334	11019325
Part no.			-	-	-	-	-	-	-	-	-	-
0,75 / 20	2,65	7,2	11019361	11019362	11019363	11019364	11019365	11019366	11019367	11019368	11019369	11019360
Part no.			-	-	-	-	-	-	-	-	-	-
1 / 18	2,8	9,6	11019396	11019397	11019398	11019399	11019400	11019401	11019402	11019403	11019404	11019395
Part no.			-	-	-	-	-	-	-	-	-	-
1,5 / 16	3,05	14,4	11019431	11019432	11019433	11019434	11019435	11019436	11019437	11019438	11019439	11019430
Part no.			-	-	-	-	-	-	-	-	-	-
2,5 / 14	3,6	24,0	11019466	11019467	11019468	11019469	11019470	11019471	11019472	11019473	11019474	11019465
Part no.			-	-	-	-	-	-	-	-	-	-
4 / 12	4,1	38,0	11019501	11019502	11019503	11019504	11019505	11019506	11019507	11019508	11019509	11019500
Part no.			-	-	-	-	-	-	-	-	-	-
6 / 10	4,8	58,0	11019536	11019537	11019538	11019539	11019540	11019541	11019542	11019543	11019544	11019535
Part no.			-	-	-	-	-	-	-	-	-	-

Two colour, barrel (with various capacity)

Cross-sec. mm ² / AWG-no.	Outer Ø app. mm	Cop. weight kg / km	Price EUR% Cu 150,- BU/WH	Price EUR% Cu 150,- WH/BU	Price EUR% Cu 150,- D-BU/WH	Price EUR% Cu 150,- WH/OG	Price EUR% Cu 150,- WH/RD	Price EUR% Cu 150,- BK/OG	Price EUR% Cu 150,- D-BU/OG	Price EUR% Cu 150,- RD/WH	Price EUR% Cu 150,- WH/D-BU	Price EUR% Cu 150,- YE/BN
app. RAL												
Part no. 0,5 / 22	2,5	4,8	65479	65480	65481	65482	65483	65484	65485	65486	65487	65488
Part no.			-	-	-	-	-	-	-	-	-	-
0,75 / 20	2,65	7,2	65490	65491	65492	65493	65494	65495	65496	65497	65498	65502
Part no.			-	-	-	-	-	-	-	-	-	-
1 / 18	2,8	9,6	65504	65505	65506	65507	65508	65509	65510	65511	65512	65514
Part no.			-	-	-	-	-	-	-	-	-	-
1,5 / 16	3,05	14,4	65516	65517	65518	65519	65520	65521	65522	65523	65524	65525
Part no.			-	-	-	-	-	-	-	-	-	-
2,5 / 14	3,6	24,0	65527	65528	65529	65530	65531	65532	65533	65534	65535	65536
Part no.			-	-	-	-	-	-	-	-	-	-
4 / 12	4,1	38,0	65538	65539	65540	65541	65542	65543	65544	65545	65546	65547
Part no.			-	-	-	-	-	-	-	-	-	-

Dimensions and specifications may be changed without prior notice. (RN06)