



USE OF CABLE

power, control and connecting cable in electrical facilities, for fixed laying and casually movement without tensile stress and without defined cable routing. Suitable for use in dry, humid and wet rooms (also water-oil mixture). Outdoor use only with UV-protection, no laying underground.



SPECIAL FEATURES

- increased resistance to oil by special PVC outer sheath, largely resistant to acids and bases acc. to EN 50363-4-1 & UL 1581 T50.182
- due to UL/CSA approval up to 600 V parallel laying with other cables with identical current voltage is permitted
- international approvals (HAR/UL/CSA)

REMARKS

- conform to RoHS
- conform to 2014/35/EU-Guideline ("Low-Voltage Directive") CE
- LABS-/silicone-free (during production)
- up to 2,5 mm²: MULTINORM H05VV5-F HAR/UL/CSA
- from 4 mm²: 2-NORM (H)05VV5-F UL/CSA
- special versions, other dimensions, core and jacket colours according to your specifications on request.

PRODUCT INFORMATION

Conductor material:	Bare copper strand
Conductor class:	Acc. to IEC 60228 cl. 5
Core insulation:	PVC
Core identification:	Acc. to DIN VDE 0293 black cores with white numerals; G = with GNYE
Stranding:	Stranded in layers
Outer sheath:	PVC
Sheath colour:	Grey, RAL 7001
Rated voltage:	Uo/U: HAR 300/500 V; UL/CSA 600 V
Testing voltage:	3 kV
Conductor resistance:	Acc. to IEC 60228 cl. 5
Insulation resistance:	Min. 20 MΩ x km
Current-carrying-capacity:	Acc. to DIN VDE, see technical Guidelines
Min. bending radius fixed:	4 x d
Min. bending radius moved:	12,5 x d
Operat. temp. fixed min/max:	HAR: -40 °C / +70 °C; UL/CSA: -40 °C / +90 °C
Operat. temp. moved min/max:	HAR: -5 °C / +70 °C; UL/CSA: -5 °C / +90 °C
Temp. at conductor:	+70 °C in operation; +150 °C in case of short-circuit
Burning behavior:	Self-extinguishing and flame-retardant acc. to IEC 60332-1; VW1; CSA FT1
Standard:	EN 50525-2-51 / VDE 0285-525-2-51; UL-Style 2517/2587 und CSA C22.2 No. 210.2-M90 AWM I A/B II A/B
Approvals:	HAR: 300/500 V - 70 °C UL/CSA 600 V - 90 °C

ITEM OVERVIEW

Product No.	Dimension [n x mm ²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
1000013	2 X 0,5 (AWG 21)	5,8	9,60	46,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000016	3 G 0,5 (AWG 21)	6,2	14,40	53,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000021	4 G 0,5 (AWG 21)	6,7	19,20	63,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000027	5 G 0,5 (AWG 21)	7,5	24,00	77,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000032	7 G 0,5 (AWG 21)	9,3	33,60	111,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000005	12 G 0,5 (AWG 21)	10,9	57,60	163,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000056	18 G 0,5 (AWG 21)	13,0	86,40	215,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000010	25 G 0,5 (AWG 21)	15,2	120,00	348,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000014	34 G 0,5 (AWG 21)	17,7	163,00	508,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1003521	41 G 0,5 (AWG 21)	19,5	197,00	570,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1003522	50 G 0,5 (AWG 21)	21,3	240,00	715,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA

MULTINORM H05VV5-F ... HAR/UL/CSA, 2-NORM (H)05VV5-F ... UL/CSA

Product No.	Dimension [n x mm ²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
1003523	61 G 0,5 (AWG 21)	23,9	293,00	840,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000057	2 X 0,75 (AWG 19)	6,2	14,40	52,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000017	3 G 0,75 (AWG 19)	6,6	21,60	64,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000022	4 G 0,75 (AWG 19)	7,2	28,80	78,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000028	5 G 0,75 (AWG 19)	8,1	36,00	98,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000185	7 G 0,75 (AWG 19)	10,0	50,40	140,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1004373	8 G 0,75 (AWG 19)	10,6	57,60	178,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000006	12 G 0,75 (AWG 19)	11,9	86,40	210,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000113	18 G 0,75 (AWG 19)	14,1	130,00	306,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000011	25 G 0,75 (AWG 19)	16,6	180,00	431,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1003524	34 G 0,75 (AWG 19)	19,3	245,00	567,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1003059	41 G 0,75 (AWG 19)	21,2	296,00	680,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1003525	50 G 0,75 (AWG 19)	23,1	360,00	824,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1003526	61 G 0,75 (AWG 19)	25,9	439,00	1070,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1002908	65 G 0,75 (AWG 19)	27,2	468,00	1140,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1002830	2 X 1 (AWG 18)	6,5	19,20	70,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000018	3 G 1 (AWG 18)	6,9	28,80	75,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000023	4 G 1 (AWG 18)	7,7	38,40	92,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000029	5 G 1 (AWG 18)	8,5	48,00	116,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000033	7 G 1 (AWG 18)	10,7	67,20	166,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1001571	12 G 1 (AWG 18)	12,6	115,00	256,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000008	18 G 1 (AWG 18)	15,1	173,00	359,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1002295	25 G 1 (AWG 18)	17,6	240,00	527,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000015	34 G 1 (AWG 18)	20,5	326,00	694,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1002835	41 G 1 (AWG 18)	22,6	394,00	813,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1001895	50 G 1 (AWG 18)	24,6	480,00	1005,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1003528	61 G 1 (AWG 18)	27,5	586,00	1265,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000058	2 X 1,5 (AWG 16)	7,7	28,80	77,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000019	3 G 1,5 (AWG 16)	8,2	43,20	97,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000024	4 G 1,5 (AWG 16)	9,1	57,60	128,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000030	5 G 1,5 (AWG 16)	10,0	72,00	149,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000034	7 G 1,5 (AWG 16)	12,6	101,00	216,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1004987	8 G 1,5 (AWG 16)	13,3	115,20	290,20	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000007	12 G 1,5 (AWG 16)	15,0	173,00	324,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1001570	18 G 1,5 (AWG 16)	17,9	259,00	485,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000012	25 G 1,5 (AWG 16)	20,9	360,00	671,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1003529	34 G 1,5 (AWG 16)	24,3	490,00	881,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1003530	41 G 1,5 (AWG 16)	26,9	591,00	1085,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000026	50 G 1,5 (AWG 16)	29,5	720,00	1381,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1003531	61 G 1,5 (AWG 16)	33,0	878,00	1640,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1003532	2 X 2,5 (AWG 14)	9,1	48,00	110,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000020	3 G 2,5 (AWG 14)	9,6	72,00	154,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000025	4 G 2,5 (AWG 14)	10,7	96,00	198,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA

MULTINORM H05VV5-F ... HAR/UL/CSA, 2-NORM (H)05VV5-F ... UL/CSA

Product No.	Dimension [n x mm ²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
1000031	5 G 2,5 (AWG 14)	12,0	120,00	238,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000035	7 G 2,5 (AWG 14)	15,0	168,00	345,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1003759	8 G 2,5 (AWG 14)	15,7	192,00	460,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1001572	12 G 2,5 (AWG 14)	17,8	288,00	531,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1001997	18 G 2,5 (AWG 14)	21,3	432,00	781,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1003142	25 G 2,5 (AWG 14)	25,0	600,00	1070,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1003533	34 G 2,5 (AWG 14)	28,9	816,00	1529,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1003534	50 G 2,5 (AWG 14)	35,2	1200,00	2290,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1003535	61 G 2,5 (AWG 14)	39,5	1464,00	2724,00	grey	V1: MULTINORM H05VV5-F HAR/UL/CSA
1000062	2 X 0,5 (AWG 20)	5,8	9,60	45,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000063	3 G 0,5 (AWG 20)	6,1	14,40	54,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000072	4 G 0,5 (AWG 20)	6,6	19,20	65,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000074	5 G 0,5 (AWG 20)	7,2	24,00	78,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000087	7 G 0,5 (AWG 20)	7,9	33,60	97,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000089	12 G 0,5 (AWG 20)	10,2	57,60	164,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000090	18 G 0,5 (AWG 20)	12,1	86,40	234,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000093	25 G 0,5 (AWG 20)	13,9	120,00	313,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000094	34 G 0,5 (AWG 20)	16,0	163,00	418,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000095	2 X 0,75 (AWG 19)	6,2	14,40	54,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000098	3 G 0,75 (AWG 19)	6,5	21,60	65,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000099	4 G 0,75 (AWG 19)	7,1	28,80	80,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000100	5 G 0,75 (AWG 19)	7,8	36,00	97,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000115	7 G 0,75 (AWG 19)	8,5	50,40	121,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000116	12 G 0,75 (AWG 19)	11,0	86,40	204,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000117	18 G 0,75 (AWG 19)	13,0	130,00	292,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000126	25 G 0,75 (AWG 19)	15,1	180,00	397,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000132	34 G 0,75 (AWG 19)	17,4	245,00	531,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003939	2 X 1 (AWG 18)	6,4	19,20	58,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003804	3 G 1 (AWG 18)	6,8	28,80	68,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003869	4 G 1 (AWG 18)	7,4	38,40	86,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003870	5 G 1 (AWG 18)	8,2	48,00	105,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003805	7 G 1 (AWG 18)	8,9	67,20	136,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003806	12 G 1 (AWG 18)	11,7	115,00	227,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003807	18 G 1 (AWG 18)	13,8	173,00	336,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003808	25 G 1 (AWG 18)	15,9	240,00	464,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000141	34 G 1 (AWG 18)	18,4	326,00	618,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000641	41 G 1 (AWG 18)	21,8	394,00	842,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003817	2 X 1,5 (AWG 16)	7,0	28,80	73,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003818	3 G 1,5 (AWG 16)	7,6	43,20	90,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003809	4 G 1,5 (AWG 16)	8,2	57,60	111,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003810	5 G 1,5 (AWG 16)	9,0	72,00	131,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003811	7 G 1,5 (AWG 16)	10,1	101,00	172,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003218	9 G 1,5 (AWG 16)	12,8	129,60	244,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA

MULTINORM H05VV5-F ... HAR/UL/CSA, 2-NORM (H)05VV5-F ... UL/CSA

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
1003812	12 G 1,5 (AWG 16)	13,3	173,00	324,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003813	18 G 1,5 (AWG 16)	16,0	259,00	485,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003819	25 G 1,5 (AWG 16)	19,0	360,00	625,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000148	34 G 1,5 (AWG 16)	21,9	490,00	881,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003940	2 X 2,5 (AWG 14)	8,2	48,00	99,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003820	3 G 2,5 (AWG 14)	8,6	72,00	126,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003814	4 G 2,5 (AWG 14)	9,4	96,00	157,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003815	5 G 2,5 (AWG 14)	10,4	120,00	194,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003816	7 G 2,5 (AWG 14)	11,6	168,00	250,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003905	12 G 2,5 (AWG 14)	16,0	288,00	452,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000151	18 G 2,5 (AWG 14)	19,2	432,00	681,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000159	25 G 2,5 (AWG 14)	23,2	600,00	956,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1000169	34 G 2,5 (AWG 14)	24,4	816,00	1236,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003120	3 G 4 (AWG 12)	11,0	115,00	232,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1001840	4 G 4 (AWG 12)	12,5	154,00	298,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1001647	5 G 4 (AWG 12)	13,3	192,00	358,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003084	7 G 4 (AWG 12)	15,0	269,00	460,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1005889	2 X 6 (AWG 10)	10,6	115,00	200,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003569	3 G 6 (AWG 10)	12,9	173,00	360,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1002410	4 G 6 (AWG 10)	12,4	231,00	402,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1001627	5 G 6 (AWG 10)	15,9	288,00	484,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003570	7 G 6 (AWG 10)	17,6	403,00	540,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003571	3 G 10 (AWG 8)	16,3	288,00	535,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1001715	4 G 10 (AWG 8)	17,4	384,00	653,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1001872	5 G 10 (AWG 8)	19,1	480,00	709,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003196	7 G 10 (AWG 8)	21,0	672,00	917,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003572	3 G 16 (AWG 6)	19,8	461,00	810,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1001873	4 G 16 (AWG 6)	21,9	615,00	1045,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003573	5 G 16 (AWG 6)	24,3	768,00	1260,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003574	3 G 25 (AWG 4)	24,8	720,00	1180,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1001893	4 G 25 (AWG 4)	25,6	960,00	1501,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003575	5 G 25 (AWG 4)	28,8	1200,00	1853,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003576	3 G 35 (AWG 2)	28,8	1008,00	1590,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1001892	4 G 35 (AWG 2)	29,5	1344,00	2123,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003577	5 G 35 (AWG 2)	32,4	1680,00	2612,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1002903	4 G 50 (AWG 1)	35,7	1920,00	2898,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003578	4 G 70 (AWG 2/0)	43,0	2688,00	4011,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1003579	4 G 95 (AWG 3/0)	47,2	3648,00	5430,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA
1002748	4 G 120 (AWG 4/0)	54,2	4608,00	6290,00	grey	V2: 2-NORM (H)05VV5-F UL/CSA