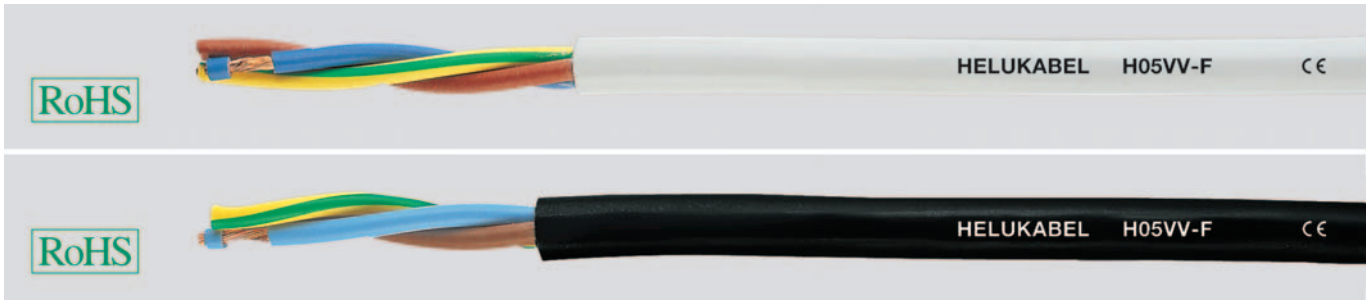


H05VV-F



Technical data

- PVC control cable acc. to DIN VDE 0285-525-2-11 / DIN EN 50525-2-11 and IEC 60227-5
- **Temperature range**
flexing -5°C to +70°C
fixed installation -40°C to +70°C
- **Nominal voltage** U₀/U 300/500 V
- **Max. permissible operating voltage** in three-phase and one-phase a.c. system U₀/U 318/550 V in direct current system U₀/U 413/825 V
- **Test voltage** 2000 V
- **Breakdown voltage** min. 4000 V
- **Insulation resistance** min. 20 MOhm x km
- **Minimum bending radius** flexing 7,5x cable Ø
- **Radiation resistance** up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of PVC compound type T12 to DIN VDE 0207-363-3 / DIN EN 50363-3
- Core identification to DIN VDE 0293-308
- up to 5 cores coloured
- from 6 cores, black with continuous white numbering
- GN-YE conductor, 3 cores and above
- Cores stranded in layers with optimal lay-length
- Outer sheath of PVC compound type TM2 to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1
- Sheath colour black or white

Properties

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

Tests

- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Note

- G = with green-yellow conductor
x = without green-yellow conductor
- These types are also available with UL-approbation.
- The above list contains a selection of the types we carry as stock. Other sizes available on request.
- Cables with 7 cores and cross-sec. 6 mm² are only available in adaption designation 05VV-F.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

These cables are especially suited to use for the appliance with medium mechanical stress in households, kitchens and offices, also for household appliances in damp and wet areas, e. g. refrigerators, washing machines, spin-driver etc. As far as this cable is admitted to the relevant specifications of the equipment.

These cables are suited to be used for cooking and heating apparatus under the condition that cable does not come in direct contact with hot parts of the apparatus and no other influences of heat.

The cables are suitable for fixed installation in furnitures, partition walls, decoration covering and in hollow spaces of prefabricated building parts. They are not qualified for use in outdoors or for use with industrial and farmer machineries, exceptionally in tailoring, etc.

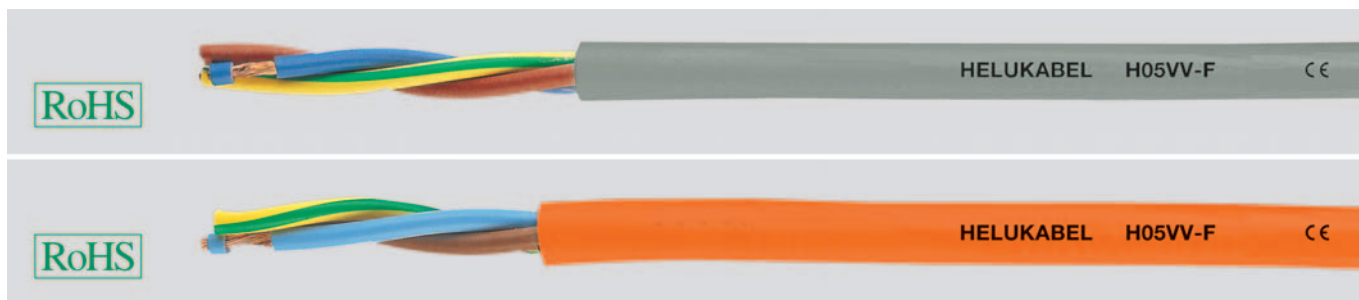
CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm ²	Sheath colour	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
29450	2 x 0,75	black	5,7 - 7,2	14,4	50,0	19
29451	2 x 0,75	white	5,7 - 7,2	14,4	50,0	19
29452	3 G 0,75	black	6,0 - 7,6	21,6	60,0	19
29453	3 G 0,75	white	6,0 - 7,6	21,6	60,0	19
29454	4 G 0,75	black	6,6 - 8,3	29,0	73,0	19
29455	4 G 0,75	white	6,6 - 8,3	29,0	73,0	19
29456	5 G 0,75	black	7,4 - 9,3	36,0	88,0	19
29457	5 G 0,75	white	7,4 - 9,3	36,0	88,0	19
29458	2 x 1	black	5,9 - 7,5	19,0	57,0	18
29459	2 x 1	white	5,9 - 7,5	19,0	57,0	18
29460	3 G 1	black	6,3 - 8,0	29,0	73,0	18
29461	3 G 1	white	6,3 - 8,0	29,0	73,0	18
29462	4 G 1	black	7,1 - 9,0	38,0	85,0	18
29463	4 G 1	white	7,1 - 9,0	38,0	85,0	18
29464	5 G 1	black	7,8 - 9,8	48,0	105,0	18
29465	5 G 1	white	7,8 - 9,8	48,0	105,0	18
29466	7 G 1	black	9,7 - 12,1	67,0	131,0	18
29467	7 G 1	white	9,7 - 12,1	67,0	131,0	18
29484	2 x 1,5	black	6,8 - 8,6	29,0	82,0	16
29485	2 x 1,5	white	6,8 - 8,6	29,0	82,0	16
29468	3 G 1,5	black	7,4 - 9,4	43,0	95,0	16
29469	3 G 1,5	white	7,4 - 9,4	43,0	95,0	16
29470	4 G 1,5	black	8,4 - 10,5	58,0	117,0	16
29471	4 G 1,5	white	8,4 - 10,5	58,0	117,0	16
29472	5 G 1,5	black	9,3 - 11,6	72,0	144,0	16
29473	5 G 1,5	white	9,3 - 11,6	72,0	144,0	16

Part no.	No. cores x cross-sec. mm ²	Sheath colour	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
29474	7 G 1,5	black	11,3 - 14,0	101,0	183,0	16
29475	7 G 1,5	white	11,3 - 14,0	101,0	183,0	16
29478	3 G 2,5	black	9,2 - 11,4	72,0	152,0	14
29479	3 G 2,5	white	9,2 - 11,4	72,0	152,0	14
29480	4 G 2,5	black	10,1 - 12,5	96,0	192,0	14
29481	4 G 2,5	white	10,1 - 12,5	96,0	192,0	14
29482	5 G 2,5	black	11,2 - 13,9	120,0	243,0	14
29483	5 G 2,5	white	11,2 - 13,9	120,0	243,0	14
29486	7 G 2,5	black	13,8 - 17,1	168,0	316,0	14
29487	7 G 2,5	white	13,8 - 17,1	168,0	316,0	14
29825	3 G 4	black	10,5 - 13,1	115,0	235,0	12
29826	3 G 4	white	10,5 - 13,1	115,0	235,0	12
29488	4 G 4	black	11,5 - 14,3	154,0	300,0	12
29489	4 G 4	white	11,5 - 14,3	154,0	300,0	12
29490	5 G 4	black	13,0 - 16,1	192,0	361,0	12
29491	5 G 4	white	13,0 - 16,1	192,0	361,0	12
29492	4 G 6	black	12,9 - 15,9	230,0	490,0	10
29493	4 G 6	white	12,9 - 15,9	230,0	490,0	10

Dimensions and specifications may be changed without prior notice. (RA01)

H05VV-F



A

Technical data

- PVC-control cables to DIN VDE 0285-525-2-11 / DIN EN 50525-2-11 and IEC 60227-5
- **Temperature range** flexing -5°C to +70°C fixed installation -40°C to +70°C
- **Nominal voltage** U_0/U 300/500 V
- Max. permissible **operating voltage** in three-phase and one-phase a.c. system U_0/U 318/550 V in direct current system U_0/U 413/825 V
- **Test voltage** 2000 V
- **Breakdown voltage** min. 4000 V
- **Insulation resistance** min. 20 MOhm x km
- **Minimum bending radius** flexing 7,5x cable Ø
- **Radiation resistance** up to 80×10^6 cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of PVC compound type T12 to DIN VDE 0207-363-3 / DIN EN 50363-3
- Core identification to DIN VDE 0293-308 - up to 5 cores coloured - from 6 cores, black with continuous white numbering
- GN-YE conductor, 3 cores and above
- Cores stranded in layers with optimal lay-length
- Outer sheath of PVC compound type TM2 to DIN VDE 0207-363-4-1/DIN EN 50363-4-1
- Sheath colour by request

Properties

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

Tests

- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Note

- G = with green-yellow conductor
- x = without green-yellow conductor
- Please add the individual part no. for order with the identification colour code:
0 = approx. RAL 5015 blue
1 = approx. RAL 6018 green
2 = approx. RAL 8003 brown
3 = approx. RAL 1021 yellow
4 = approx. RAL 3000 red
5 = approx. RAL 2003 orange
6 = approx. RAL 4005 violet
7 = approx. RAL 7001/7032 grey
8 = gold
9 = dusty gold
Further colours on request.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

These cable are especially suited to use for the appliance with medium mechanical stress in households, kitchens and offices, also for household appliances in damp and wet areas, e. g. refrigerators, washing machines, spin-driver etc. As far as this cable is admitted to the relevant specifications of the equipment. These cables are suited to be used for cooking and heating apparatus under the condition that cable does not come in direct contact with hot parts of the apparatus and no other influences of heat. The cables are suitable for fixed installation in furnitures, partition walls, decoration covering and in hollow spaces of prefabricated building parts.

They are not qualified for use in outdoors or for use with industrial and farmer machineries, exceptionally in tailoring, etc.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm ²	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
3011x	2 x 0,75	5,7 - 7,2	14,4	50,0	19
3012x	3 G 0,75	6,0 - 7,6	21,6	60,0	19
3013x	4 G 0,75	6,6 - 8,3	29,0	73,0	19
3014x	5 G 0,75	7,4 - 9,3	36,0	88,0	19
3015x	2 x 1	5,9 - 7,5	19,0	57,0	18
3016x	3 G 1	6,3 - 8,0	29,0	73,0	18
3017x	4 G 1	7,1 - 9,0	38,0	85,0	18
3018x	5 G 1	7,8 - 9,8	48,0	105,0	18

Part no.	No. cores x cross-sec. mm ²	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
3020x	2 x 1,5	6,8 - 8,6	29,0	82,0	16
3021x	3 G 1,5	7,4 - 9,4	43,0	95,0	16
3022x	4 G 1,5	8,4 - 10,5	58,0	117,0	16
3023x	5 G 1,5	9,3 - 11,6	72,0	144,0	16
3024x	3 G 2,5	9,2 - 11,4	72,0	152,0	14
3025x	4 G 2,5	10,1 - 12,5	96,0	192,0	14
3026x	5 G 2,5	11,2 - 13,9	120,0	243,0	14

Dimensions and specifications may be changed without prior notice. (RA01)



Suitable accessories can be found in Chapter X.

- Cable Gland - HELUTOP® HT-PA
- Cable Gland - HELUTOP® HT-MS