

H05VV-F/UL VDE-HAR-UL 500 V, according to DIN VDE 0281 and UL-Style 20195



Technical data

- PVC control cable to DIN VDE 0281 part 5 and part 2, IEC 60227-5, HD 21.5 S3 and UL-Subj. 758 AWM-Style 20195
- **Temperature range**
flexing -5°C to +70°C
fixed installation -40°C to +70°C
- **Nominal voltage**
DIN VDE 0281 = U_0/U 300/500 V
UL-Style 20195 = U_0/U 300/500 V
- **Test voltage** 2500 V
- **Breakdown voltage** min. 5000 V
- **Insulation resistance**
min. 20 MΩm x km
- **Minimum bending radius**
approx. 7,5x cable Ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable construction

- Bare copper, fine wire conductors bunch stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5, IEC 60228 cl. 5, HD 383
- PVC core insulation T12 to DIN VDE 0281 part 1
- Cores colour coded to DIN VDE 0293-308
- Green-yellow earth core, 3 cores and above
- Core stranded in layers with optimal lay-length
- PVC outer jacket, colour by request
- PVC outer jacket TM2 to DIN VDE 0281 part 1
- Imprint on the outer jacket: e.g.
HELUKABEL VDE HAR H05VV-F
xGxx CE E170315
AWM-STYLE 20195 75C 300/500 V
VW-1

Properties

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

Note

- G = with green-yellow earth core;
x = without green-yellow earth core.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- Colour code:
0 = RAL 9005, black
1 = RAL 9003, white
2 = RAL 5015, blue
3 = RAL 6018, green
4 = RAL 8003, brown
5 = RAL 1021, yellow
6 = RAL 3000, red
7 = RAL 2003, orange
8 = RAL 4005, violet
9 = RAL 7001/7032, grey
- Please add the individual part no. for order with the identification colour code.
Further colours on request.

Application

These flexible PVC control cables, VDE-HAR-AWM approved, are designed for the export and also for the export-orientated-equipment. These cables are especially suited to use for the appliance with medium mechanical stresses with free movement without tensile 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 or 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 suitable for use in open air, in industries (also permitted to tailor workshops and of that kind) and in agriculture plants and for connecting commercial electrical tools.

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

Part No.	No. cores x cross-sec. mm ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.	Part No.	No. cores x cross-sec. mm ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
3269_	2 x 0,75	6,4	14,4	50,0	18	3277_	2 x 1,5	7,6	29,0	82,0	16
3270_	3 G 0,75	6,8	21,6	60,0	18	3278_	3 G 1,5	8,2	43,0	95,0	16
3271_	4 G 0,75	7,4	29,0	73,0	18	3279_	4 G 1,5	9,2	58,0	117,0	16
3272_	5 G 0,75	8,3	36,0	88,0	18	3280_	5 G 1,5	9,3	72,0	144,0	16
3273_	2 x 1	6,8	19,0	57,0	17	3281_	3 G 2,5	10,1	72,0	152,0	14
3274_	3 G 1	7,2	29,0	73,0	17	3282_	4 G 2,5	11,2	96,0	192,0	14
3275_	4 G 1	8,0	38,0	85,0	17	3283_	5 G 2,5	12,4	120,0	245,0	14
3276_	5 G 1	8,8	48,0	105,0	17						

Dimensions and specifications may be changed without prior notice.