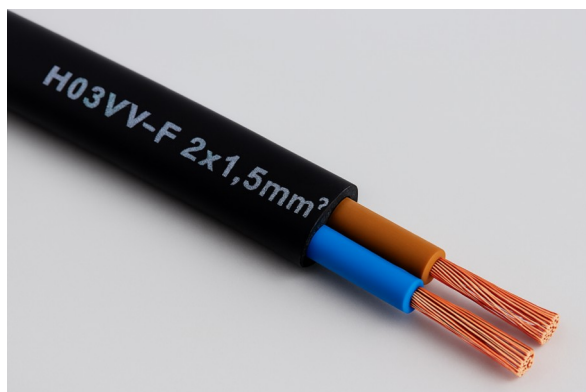


CABLE DATA for H03VV-F, H03VVH2-F

General Information



Cable Standard(s)

- EN 50525-2-11, IEC 60227-5.

Construction Product Regulation (CPR) Classification

- Regulation: Compliant with the EU Regulation (EU) No. 305/2011 on construction products.
- Intended Use: Suitable for general applications in construction works with fire safety requirements.
- Harmonized Standard: EN 50575:2014
- Reaction to Fire Classification: Eca (according to EN 13501-6)
- Release of Dangerous Substances: N.P.D. (No Performance Determined)

Flame Retardant Properties

- The cable complies with the self-extinguishing requirements specified in EN 60332-1-2 (single vertical wire flame test).

Temperature Ratings

- Minimum installation and handling temperature: 0°C
- Maximum continuous conductor operating temperature: +70°C
- Maximum conductor temperature during short-circuit (≤ 5 seconds): +160°C
- Permissible ambient temperature range during operation: -30°C to +50°C

Minimum Bending Radius (D = external diameter of the cable or cable thickness for H03VVH2-F)

- $6 \times D$ for $D < 8$ mm;
- $8 \times D$ for $8 \text{ mm} \leq D \leq 12$ mm;
- $10 \times D$ for $D > 12$ mm.

Scope of Application

- Design Purpose: Flexible cable intended for use under moderate mechanical stress.
- Permissible Movements: Suitable for frequent bending and twisting during operation.
- Installation Conditions: For fixed installations in furniture, partition walls, decorative coverings, and hollow spaces; For indoor use in dry or damp environments, including residential, office, and kitchen areas.
- Typical Applications: Connection of appliances and devices subject to light mechanical wear, such as radios, table and floor lamps, office equipment, kitchen appliances, and vacuum cleaners.
- Special Applications: Cables with more than 3 cores may be used as signal or control cables.
- Limitations of Use: Not suitable for continuous outdoor operation; Not intended for installations in industrial or agricultural environments.

Cable Construction and Electrical Properties

Conductor(s)

- Fine-stranded copper conductor, Class 5, in accordance with IEC 60228 Clause 5.

Insulation

- PVC compound type TI2 according to EN 50363-3.
- Insulation colors according to HD 308 S2.
- Cores are parallel (H03VVH2-F) or concentrically (H03VV-F) stranded, with or without a green-yellow protective conductor.

Sheath

- PVC compound type TM2 according to EN 50363-4-1.
- Sheath color options include gray, white and black.

Rated Voltage

- $U_0/U = 300/300\text{ V}$

Test Voltage

- 2 kV AC

Dimensional Specifications

Nº	Construction [n×mm ²]	Metal index [kg/km]	Weight (approx.) [kg/km]	Diameter (range) [mm]	Resistance at 20°C [Ω/km]	Ampacity in air at 30°C (range)* [A]
○ Layout, H03VV-F						
1	2×0,5	9,6	41	4,6–5,9	39	3–7
2	2×0,75	14,4	48	4,9–6,3	26	6–10
3	3×0,5	14,4	48	4,9–6,3	39	3–7
4	3×0,75	21,6	57	5,2–6,7	26	6–10
5	4×0,5	19,2	58	5,4–6,9	39	3–7
6	4×0,75	28,8	70	5,7–7,3	26	6–10

Nº	Construction [n×mm ²]	Metal index [kg/km]	Weight (approx.) [kg/km]	Dimensions (range) [mm]	Resistance at 20°C [Ω/km]	Ampacity in air at 30°C (range)* [A]
□ Layout, H03VVH2-F						
7	2×0,5	9,6	28	[3,0–3,7]×[4,9–5,9]	39	3–7
8	2×0,75	14,4	35	[3,2–3,8]×[5,2–6,3]	26	6–10

* Standard ampacity ranges based on IEC 60228 / EN 50525-2-11 and depending on temperature and method of installation.