H03VH-H

PVC insulated flexible flat cable

JUS mark: **P/L**
standards: HRN HD 21.5 S3
IEC 60227-5 (mark 227 IEC 42)
DIN VDE 0281 part 5

H - harmonized cable (conforming with European standards)
03 - U_0 /U = 300/300 V
V - PVC insulation
H - flat split cores construction
H - fine wired conductor, highly flexible

Technical data

Temperature range:

- during installation: +5 °C up to +40 °C
- at short circuit of max. 5 s: up to 150 °C
- ambient temperature at storage: up to 40 °C

Nominal voltage: U_0 /U = 300/300 V

Test voltage: 2000 V

Minimal inner bending radius: 5D (D = external cable diameter, smaller dimension)

Behaviour in fire: Flame retardant (self-extinguishing) cable acc. to **IEC 60332-1** / EN 60332-1 (earlier EN 50265-2-1) / VDE 0482-332-1 (earlier VDE 0482-265-2-1, also DIN VDE 0472 part 804 test method B)

Construction

1. **Conductor:** bare copper conductor, highly fine wired stranded, class 6 acc. to IEC 60228 / HD 383 / DIN VDE 0295 (nominal diameter 0,15 mm),
   - two parallelly laid conductors
2. **Insulation:** PVC compound TI2 acc. to DIN VDE 0207 4. part / HD 21.1 S4
   - flat shaped insulation with both-sides central groove for easy separation of conductors
   - possible insulation colours:

white (wh)
black (bk)
brown (bn)

Application

Highly flexible cable for dry areas, used for connection of small mobile devices, requiring special flexibility in conditions free of any mechanical stresses. Permitted frequent bending, but no twisting. Suitable for radios, desk lamps, electric razors and similar household or office devices, as long as the cable is adapted to essential specifications of the device. Not suitable for cookers and hot devices. Fixed cable connection to the device or by means of a small plug. Cable ends must be provided with inseparable plugs additionally protected by rubber or thermoplastic insertion. Cable length must not exceed 2 m.

Dimensions - number of cores x conductor cross-section	Construction of individual conductor (No. of wires x diameter)	External diameter	Insulation thickness	Conductor resistance at 20 °C	Specific. el. resistance of insulation at 70 °C	Cu weight	Cable weight	Packing*
	nominal	min-max.	nominal	max.	min.		approx.	
mm^2	n x mm	mm	mm	Ω/km	MΩkm	kg/km	kg/km	
2 x 0,5	28 x 0,15	2,4 x 4,9 - 3,0 x 5,9	0,8	39,0	0,015	9,6	22,0	c.100
2 x 0,75	42 x 0,15	2,6 x 5,2 - 3,1 x 6,3	0,8	26,0	0,014	14,4	26,0	c.100

***) Packing:** c. 100 = coil 100 m