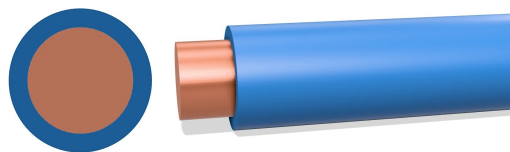


Application

VOB is the Belgian single-core installation wire (building wire) to NBN C 32-123 / HD 21.3 (H07V-U solid, H07V-R stranded) for 450/750 V fixed wiring. It consists of a single copper conductor insulated with PVC; there is no outer sheath, so VOB is drawn into conduits, trunking and cable ducts, or wired in enclosures and distribution boards. The PVC insulation is colour-coded to HD 308 S2 (including green/yellow for protective conductors). VOB is the most common wire in Belgian domestic and commercial installations; where a sheathed cable is required, XVB or XGB is used instead.



CONSTRUCTION

Conductor	Plain annealed copper: solid class 1 (H07V-U) in the small sizes, stranded class 2 (H07V-R) from 6 mm ² upward, acc. to IEC 60228. A flexible VOBs (soepel) variant with a class 5 conductor (H07V-K) is available.
Insulation	Polyvinyl chloride (PVC), type T11.
Core identification	Single colour per HD 308 S2: blue, brown, black, grey, red, orange or green/yellow.
Sheath	None (single-core insulated wire).

ELECTRICAL & THERMAL PROPERTIES

Rated voltage U_o/U	450/750 V.
Test voltage	2.5 kV AC.
Standard	NBN C 32-123 / HD 21.3 S1 (EN 50525-2-31); conductor acc. to IEC 60228.
Reaction to fire (CPR)	Class Eca acc. to EN 50575 (halogen-free VOB-variant Cca on request).
Flame-retardant	Acc. to IEC 60332-1-2.
Max. conductor temperature	+70 °C (short circuit +160 °C, max. 5 s).
Permitted ambient temperature, fixed	-15 °C to +70 °C.
Min. bending radius, fixed	4 × overall diameter.

DIMENSIONS & TECHNICAL DATA

Nominal c.s.a. (mm ²)	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
1.5	12.1	2.8	20
2.5	7.41	3.4	30
4	4.61	3.8	46
6	3.08	4.6	66
10	1.83	5.8	113
16	1.15	6.9	170
25	0.727	8.3	256

Outer diameters and weights are nominal values of the leading reference source; conductor resistances are the IEC 60228 class 1/2 maxima at 20 °C. Small sizes are solid (H07V-U), larger sizes stranded (H07V-R). All values are indicative and non-binding.