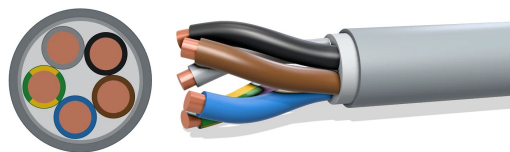


## Application

XVB is the classic Belgian fixed-installation and power cable to NBN HD 604-4-G for 0.6/1 kV circuits in residential, commercial and industrial buildings. The copper conductors are insulated with cross-linked polyethylene (XLPE), assembled with a PVC bedding (common core covering) and protected by a grey, flame-retardant PVC outer sheath. XVB is used on cable trays and ladders, in conduits and trunking, clipped to walls or embedded in concrete; it is not intended for direct burial and may be laid in the ground only with protection (for direct burial without additional protection choose the armoured EXAVB). The variant XVB-F2 has solid (class 1) conductors and meets flame-retardant category F2 of NBN C 30-004; its dimensions are identical to XVB and are covered by this sheet.



## CONSTRUCTION

|                            |                                                                                                                                                    |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conductor</b>           | Plain annealed copper, solid class 1 (RE) or stranded class 2 (RM) acc. to IEC 60228. XVB-F2: solid class 1.                                       |
| <b>Insulation</b>          | Cross-linked polyethylene (XLPE), 90 °C rated.                                                                                                     |
| <b>Core identification</b> | Coloured cores acc. to HD 308 S2, with or without a green/yellow earth core (e.g. 3G, 4G, 5G); multicore control constructions use numbered cores. |
| <b>Bedding</b>             | PVC common core covering (bedding), taped or extruded.                                                                                             |
| <b>Outer sheath</b>        | Flame-retardant PVC (polyvinyl chloride), grey.                                                                                                    |

## ELECTRICAL & THERMAL PROPERTIES

|                                             |                                                                                   |
|---------------------------------------------|-----------------------------------------------------------------------------------|
| <b>Rated voltage U<sub>0</sub>/U</b>        | 0.6/1 kV.                                                                         |
| <b>Test voltage</b>                         | 3.5 kV AC.                                                                        |
| <b>Standard</b>                             | NBN HD 604-4-G (harmonises the former NBN C 33-322); conductor acc. to IEC 60228. |
| <b>Reaction to fire (CPR)</b>               | Class Cca-s3,d2,a3 acc. to EN 50575 / EN 13501-6.                                 |
| <b>Flame-retardant</b>                      | Acc. to IEC 60332-1-2; flame-retardant category F2 acc. to NBN C 30-004 (XVB-F2). |
| <b>Max. conductor temperature</b>           | +90 °C (short circuit +250 °C, max. 5 s).                                         |
| <b>Permitted ambient temperature, fixed</b> | -15 °C to +60 °C; min. laying temperature 0 °C.                                   |
| <b>Min. bending radius, fixed</b>           | 12 × overall diameter (single-core 15 ×).                                         |

**DIMENSIONS & TECHNICAL DATA**

| Cores × mm <sup>2</sup> | Cond. R @20°C<br>(Ω/km) | Nominal O.D.<br>(mm) | Weight<br>(kg/km) |
|-------------------------|-------------------------|----------------------|-------------------|
| 2 × 1.5                 | 12.1                    | 9                    | 110               |
| 3 × 1.5                 | 12.1                    | 9.5                  | 125               |
| 4 × 1.5                 | 12.1                    | 10                   | 150               |
| 5 × 1.5                 | 12.1                    | 11                   | 180               |
| 7 × 1.5                 | 12.1                    | 12.5                 | 245               |
| 2 × 2.5                 | 7.41                    | 10                   | 140               |
| 3 × 2.5                 | 7.41                    | 10.5                 | 165               |
| 4 × 2.5                 | 7.41                    | 11                   | 200               |
| 5 × 2.5                 | 7.41                    | 12                   | 240               |
| 7 × 2.5                 | 7.41                    | 14                   | 325               |
| 2 × 4                   | 4.61                    | 10.5                 | 185               |
| 3 × 4                   | 4.61                    | 11.5                 | 225               |
| 4 × 4                   | 4.61                    | 12                   | 270               |
| 5 × 4                   | 4.61                    | 13.5                 | 330               |
| 2 × 6                   | 3.08                    | 11.5                 | 235               |
| 3 × 6                   | 3.08                    | 12.5                 | 295               |
| 4 × 6                   | 3.08                    | 13.5                 | 360               |
| 5 × 6                   | 3.08                    | 14.5                 | 435               |
| 2 × 10                  | 1.83                    | 13.5                 | 340               |
| 3 × 10                  | 1.83                    | 14                   | 430               |
| 4 × 10                  | 1.83                    | 15.5                 | 545               |
| 5 × 10                  | 1.83                    | 17                   | 660               |
| 1 × 16                  | 1.15                    | 11                   | 230               |
| 2 × 16                  | 1.15                    | 16                   | 520               |
| 3 × 16                  | 1.15                    | 17.5                 | 665               |
| 4 × 16                  | 1.15                    | 19                   | 835               |
| 5 × 16                  | 1.15                    | 21                   | 1030              |
| 1 × 25                  | 0.727                   | 12.5                 | 330               |
| 3 × 25                  | 0.727                   | 21                   | 1005              |
| 4 × 25                  | 0.727                   | 23                   | 1285              |
| 5 × 25                  | 0.727                   | 27                   | 1645              |
| 1 × 35                  | 0.524                   | 13.5                 | 430               |
| 3 × 35                  | 0.524                   | 25                   | 1410              |
| 4 × 35                  | 0.524                   | 27                   | 1780              |
| 1 × 50                  | 0.387                   | 15                   | 565               |
| 4 × 50                  | 0.387                   | 31                   | 2405              |
| 1 × 70                  | 0.268                   | 17                   | 780               |
| 3 × 70                  | 0.268                   | 29                   | 2190              |
| 4 × 70                  | 0.268                   | 32                   | 2895              |
| 1 × 95                  | 0.193                   | 20                   | 1090              |
| 3 × 95                  | 0.193                   | 32                   | 3000              |
| 4 × 95                  | 0.193                   | 36                   | 3980              |
| 1 × 120                 | 0.153                   | 22                   | 1340              |
| 3 × 120                 | 0.153                   | 35                   | 3700              |
| 4 × 120                 | 0.153                   | 40                   | 4930              |

| Cores × mm <sup>2</sup> | Cond. R @20°C<br>(Ω/km) | Nominal O.D.<br>(mm) | Weight<br>(kg/km) |
|-------------------------|-------------------------|----------------------|-------------------|
| 1 × 150                 | 0.124                   | 23                   | 1625              |
| 3 × 150                 | 0.124                   | 39                   | 4605              |
| 4 × 150                 | 0.124                   | 45                   | 6110              |
| 1 × 185                 | 0.0991                  | 26                   | 2010              |
| 3 × 185                 | 0.0991                  | 44                   | 5765              |
| 4 × 185                 | 0.0991                  | 50                   | 7660              |
| 1 × 240                 | 0.0754                  | 28                   | 2530              |
| 3 × 240                 | 0.0754                  | 49                   | 7440              |
| 4 × 240                 | 0.0754                  | 56                   | 9875              |
| 1 × 300                 | 0.0601                  | 31                   | 3105              |
| 3 × 300                 | 0.0601                  | 53                   | 9335              |
| 4 × 300                 | 0.0601                  | 62                   | 12415             |

Outer diameters and weights are nominal values of the leading Belgian reference source; conductor resistances are the IEC 60228 class 1/2 maxima at 20 °C. Cores shown as n × mm<sup>2</sup> may be supplied with a green/yellow earth core (nG). All values are indicative and non-binding.