

Application

EXVB is the copper, outdoor version of the Belgian XVB cable to NBN HD 603-5A for 0.6/1 kV power and distribution circuits. The copper conductors are insulated with cross-linked polyethylene (XLPE), assembled with a PVC bedding (common core covering) and protected by a black, reinforced PVC outer sheath. The heavier, black (UV-stable) sheath is the key difference from standard grey XVB: EXVB is intended for outdoor routing and for laying in ground ducts and conduits, for building service connections, yard and site distribution and feeders, where XVB (NBN HD 604, grey, indoor/embedded) is not suitable. Where mechanical protection against crushing is required, the steel-tape armoured XFVB is used; the aluminium equivalent of EXVB is EAXeVB, and the halogen-free outdoor sibling is EXGB.



CONSTRUCTION

Conductor	Plain annealed copper, solid class 1 (RE) or stranded class 2 (RM/SM) acc. to IEC 60228.
Insulation	Cross-linked polyethylene (XLPE), 90 °C rated.
Core identification	Coloured cores acc. to HD 308 S2, with or without a green/yellow earth core (3G, 4G, 5G).
Bedding	PVC common core covering (bedding).
Outer sheath	Reinforced polyvinyl chloride (PVC), black, UV-stable, for outdoor and in-duct use.

ELECTRICAL & THERMAL PROPERTIES

Rated voltage U₀/U	0.6/1 kV.
Test voltage	3.5 kV AC.
Standard	NBN HD 603-5A; conductor acc. to IEC 60228.
Reaction to fire (CPR)	Class Eca acc. to EN 50575 / EN 13501-6. Under AREI Book 1 cables installed separately must be at least class Eca (5.2.7.2); cables installed in a bundle or layer must be at least Cca (5.2.7.3).
Flame-retardant	Acc. to IEC 60332-1-2.
Max. conductor temperature	+90 °C (short circuit +250 °C, max. 5 s).
Permitted ambient temperature, fixed	-15 °C to +60 °C; min. laying temperature +5 °C.
Min. bending radius, fixed	12 × overall diameter (single-core 15 ×).

DIMENSIONS & TECHNICAL DATA

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
2 × 1.5	12.1	12	190
3 × 1.5	12.1	12.5	205
4 × 1.5	12.1	13	235
5 × 1.5	12.1	14	270
2 × 2.5	7.41	13	225
3 × 2.5	7.41	13.5	250
4 × 2.5	7.41	14	290
5 × 2.5	7.41	15	340
2 × 4	4.61	13.5	270
3 × 4	4.61	14.5	315
4 × 4	4.61	15	370
5 × 4	4.61	16.5	435
2 × 6	3.08	14.5	330
3 × 6	3.08	15.5	395
4 × 6	3.08	16.5	470
5 × 6	3.08	17.5	555
2 × 10	1.83	16.5	445
3 × 10	1.83	17	545
4 × 10	1.83	18.5	670
5 × 10	1.83	20	800
1 × 16	1.15	10.5	235
2 × 16	1.15	18.5	630
3 × 16	1.15	20	790
4 × 16	1.15	22	970
5 × 16	1.15	24	1180
1 × 25	0.727	12.5	345
2 × 25	0.727	22	920
3 × 25	0.727	24	1160
4 × 25	0.727	26	1455
5 × 25	0.727	28	1760
1 × 35	0.524	13.5	440
2 × 35	0.524	25	1220
3 × 35	0.524	27	1540
4 × 35	0.524	29	1915
5 × 35	0.524	32	2355
1 × 50	0.387	15	590
3 × 50	0.387	30	2050
4 × 50	0.387	33	2585
1 × 70	0.268	17	805
3 × 70	0.268	32	2545
4 × 70	0.268	36	3295
1 × 95	0.193	19	1075
3 × 95	0.193	35	3395
4 × 95	0.193	40	4435
1 × 120	0.153	21	1320

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
3 × 120	0.153	38	4130
4 × 120	0.153	44	5495
1 × 150	0.124	23	1610
3 × 150	0.124	43	5150
4 × 150	0.124	49	6765
1 × 185	0.0991	25	1995
3 × 185	0.0991	48	6395
4 × 185	0.0991	54	8380
1 × 240	0.0754	28	2530
3 × 240	0.0754	53	8220
4 × 240	0.0754	61	10785
1 × 300	0.0601	31	3130
3 × 300	0.0601	58	10195
4 × 300	0.0601	67	13420
1 × 400	0.047	34	4025

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 × mm² may be supplied with a green/yellow earth core (nG). All values are indicative and non-binding.