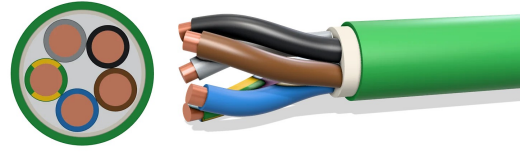


Application

XGB is the halogen-free Belgian fixed-installation and power cable to NBN HD 604-5-L for 0.6/1 kV circuits, and is today the default choice for new installations in Belgium. The copper conductors are insulated with cross-linked polyethylene (XLPE), assembled with a halogen-free (LSZH) bedding and protected by a green, halogen-free, low-smoke (LSZH) outer sheath. In a fire XGB emits no corrosive halogen gases and very little smoke, so it is specified for public, commercial and residential buildings and everywhere people must evacuate safely. Its reaction-to-fire performance is CPR class Cca-s1,d2,a1. XGB is installed on trays and ladders, in conduits and trunking, clipped or embedded; the steel-tape armoured sibling XFGB and the aluminium sibling EAXeGB cover armoured and aluminium needs.



CONSTRUCTION

Conductor	Plain annealed copper, solid class 1 (RE) or stranded class 2 (RM, from 16 mm ²) 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	Halogen-free (LSZH) common core covering, taped or extruded.
Outer sheath	Halogen-free, low-smoke (LSZH) thermoplastic compound, green.

ELECTRICAL & THERMAL PROPERTIES

Rated voltage U_o/U	0.6/1 kV.
Test voltage	3.5 kV AC.
Standard	NBN HD 604-5-L; conductor acc. to IEC 60228.
Reaction to fire (CPR)	Class Cca-s1,d2,a1 acc. to EN 50575 / EN 50399 (B2ca on request).
Halogen-free / low smoke	Halogen-free acc. to IEC/EN 60754-1/-2; low smoke density acc. to IEC/EN 61034-1/-2; 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	9.5	130
3 × 1.5	12.1	10	145
4 × 1.5	12.1	10.5	170
5 × 1.5	12.1	12	210
7 × 1.5	12.1	13	265
2 × 2.5	7.41	10.5	160
3 × 2.5	7.41	11	185
4 × 2.5	7.41	11.5	220
5 × 2.5	7.41	13	275
7 × 2.5	7.41	14.5	350
2 × 4	4.61	11	205
3 × 4	4.61	11.5	245
4 × 4	4.61	12.5	295
5 × 4	4.61	13.5	350
2 × 6	3.08	12	260
3 × 6	3.08	13	320
4 × 6	3.08	14	385
5 × 6	3.08	15	460
2 × 10	1.83	13.5	370
3 × 10	1.83	14.5	460
4 × 10	1.83	16	575
5 × 10	1.83	17.5	690
1 × 16	1.15	11.5	265
2 × 16	1.15	16	545
3 × 16	1.15	17.5	695
4 × 16	1.15	19	860
5 × 16	1.15	21	1050
1 × 25	0.727	13	375
2 × 25	0.727	19.5	825
3 × 25	0.727	21	1040
4 × 25	0.727	23	1320
5 × 25	0.727	26	1610
1 × 35	0.524	14.5	475
2 × 35	0.524	22	1075
3 × 35	0.524	24	1390
4 × 35	0.524	26	1750
1 × 50	0.387	15.5	620
3 × 50	0.387	28	1945
4 × 50	0.387	31	2460
1 × 70	0.268	17.5	840
3 × 70	0.268	30	2350
4 × 70	0.268	34	3075
1 × 95	0.193	18	1025
3 × 95	0.193	31	2985
4 × 95	0.193	36	3965

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
1 × 120	0.153	19.5	1265
3 × 120	0.153	34	3685
4 × 120	0.153	40	4910
1 × 150	0.124	21	1545
3 × 150	0.124	39	4590
4 × 150	0.124	45	6090
1 × 185	0.0991	24	1920
3 × 185	0.0991	43	5745
4 × 185	0.0991	50	7640
1 × 240	0.0754	26	2435
3 × 240	0.0754	48	7420
4 × 240	0.0754	56	9850
1 × 300	0.0601	29	3000
3 × 300	0.0601	53	9315
4 × 300	0.0601	62	12395

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.