

Application

EXGB is the copper, halogen-free, outdoor version of the Belgian XGB 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 halogen-free (LSZH) bedding and protected by a black, halogen-free, low-smoke (LSZH) outer sheath. It combines the fire safety of a halogen-free cable - no corrosive halogen gases and very little smoke - with a black, outdoor-suitable sheath and the NBN HD 603-5A distribution pedigree, for service connections, yard and site distribution and feeders routed outdoors and in ground ducts. Its reaction-to-fire performance is CPR class Cca-s1,d2,a1. EXGB is a recent Belgian family (introduced in late 2024 under the 2023 revision of NBN HD 603-5A and Synergrid technical spec C1/107). The aluminium equivalent is EAXeGB; the standard indoor halogen-free cable is XGB (NBN HD 604-5-L).



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 green/yellow earth.
Bedding	Halogen-free (LSZH) extruded common core covering.
Outer sheath	Halogen-free, low-smoke (LSZH) compound, black; for outdoor and in-duct use.

ELECTRICAL & THERMAL PROPERTIES

Rated voltage Uo/U	0.6/1 kV.
Test voltage	3.5 kV AC.
Standard	NBN HD 603-5A (2023) / Synergrid C1/107; conductor acc. to IEC 60228.
Reaction to fire (CPR)	Class Cca-s1,d2,a1 acc. to EN 50575 / EN 50399.
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	-25 °C to +60 °C; min. laying temperature -5 °C.
Min. bending radius, fixed	12 × overall diameter.

DIMENSIONS & TECHNICAL DATA

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
3 × 10	1.83	17	565
4 × 10	1.83	18.5	690
5 × 10	1.83	20	825
3 × 16	1.15	20	820
4 × 16	1.15	22	1000
4 × 25	0.727	26	1495
4 × 35	0.524	29	1930
4 × 50	0.387	33	2645
4 × 70	0.268	36	3265
4 × 95	0.193	40	4400

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.