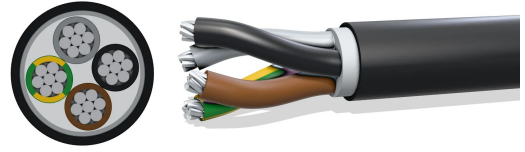


Application

EAXeVB is a Belgian aluminium cable to NBN HD 603-5A for 0.6/1 kV power and distribution circuits where the lower weight and cost of aluminium are wanted. It is longitudinally watertight (the e in the designation): water blocking tape stops water from travelling along the cable if the sheath is damaged. The aluminium conductors are insulated with cross-linked polyethylene (XLPE), assembled with a PVC bedding (common core covering) and protected by a black PVC outer sheath. EAXeVB is used for building service connections, sub-distribution and feeders on trays, in ducts and buried with protection. It is supplied in the larger cross-sections (from about 35 mm²) where aluminium is economic; for smaller sections and general wiring the copper XVB is used. The aluminium version without water blocking is EAXVB; EXVB is the copper cable.



CONSTRUCTION

Conductor	Aluminium, solid class 1 (RE) or stranded class 2 (RM) 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.
Longitudinal water tightness	Water blocking tape under the bedding.
Bedding	PVC common core covering (filler).
Outer sheath	Polyvinyl chloride (PVC), black.

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 (aluminium).
Reaction to fire (CPR)	Class Eca acc. to EN 50575 / EN 13501-6.
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.

DIMENSIONS & TECHNICAL DATA

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
3 × 35	0.868	27	970
3 × 50	0.641	30	1225
4 × 50	0.641	33	1460
3 × 70	0.443	31	1235
3 × 95	0.32	33	1535
4 × 95	0.32	37	1925
3 × 120	0.253	36	1840
3 × 150	0.206	40	2210
4 × 150	0.206	45	2800
3 × 240	0.125	49	3490
4 × 240	0.125	56	4485

Outer diameters and weights are nominal values of the leading Belgian reference source; conductor resistances are the IEC 60228 class 1/2 ALUMINIUM maxima at 20 °C. All values are indicative and non-binding.