

# ELAQBY, ELAQBY-S

Halogen-free, paired, collectively screened telecommunication cable



internal  
application



external  
application



EN 60332-1



halogen-free  
EN 60754

## Technical data:

**Operating temperature:** -40°C to 80°C

**Min. installation temperature:** -5°C

**Operating voltage:** 100V

**Conductor resistance at 20°C max.:**

66,6Ω/km

**Insulation resistance:** 5GΩxkm

**Max loop resistance unbalance:** 2%

**Max capacitance in pair: core/core:**

59nF/km

**Max capacitance unbalance:** 150pF/500m

**Attenuation loss at 1 Mhz:** 17dB/km

**Min. bending radius:** 10xØ

## Construction:

**Conductors:** solid, bare, annealed copper conductors

**Insulation:** special PE

**Core arrangement:** cores twisted in pairs, pairs in bundles wrapped with identification tapes, bundles twisted together in layers

**Screen:**

ELAQBY - longitudinally applied copolymer coated (on both sides) aluminium tape with 2 tinned copper drain wires Ø 0.5mm. This screen acts also as a moisture barrier

ELAQBY-S – aluminium backed polyester tape with 2 tinned copper drain wires Ø0.5mm

**Outer sheath:** special, halogen-free and flame retardant compound acc to EN 60332-1

**Outer sheath colour:** white

## Application:

PE-insulated, collectively screened, halogen-free telecommunication cables for indoor (ELAQBY-S) and outdoor (ELAQBY) applications in fixed installations. ELAQBY can be installed outdoors and in ground only with suitable protection against mechanical damage.

ELAQBY cables have longitudinally applied copolymer coated aluminium foil which is bonded to the sheath and is acting also as a moisture barrier. Cable is used for analogue and digital transmissions. Cables classified according to **EN 50575 (CPR)**.

## Standards:

IEC 60332-1

IEC 60754-2

SS 424 16 52

Cat no.	Cable type	nx2xmm	Outer diameter [mm]	Approximate cable weight [kg/km]
TP0900	ELAQBY-S	2x2x0,6	6,0	60
TP0901	ELAQBY-S	5x2x0,6	9,0	95
TP0907	ELAQBY	5x2x0,6	10,0	102
TP0902	ELAQBY	10x2x0,6	11,5	140
TP0903	ELAQBY	20x2x0,6	14,0	230
TP0904	ELAQBY	30x2x0,6	16,0	320
TP0905	ELAQBY	50x2x0,6	19,0	500
TP0906	ELAQBY	100x2x0,6	25,0	880

Cable Factory BITNER reserves the right to modify the specifications without prior notice

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## Insulation colours:

1-100pairs Pair	Insulation colours:	
	a	b
1	white	blue
2	white	orange
3	white	green
4	white	brown
5	white	grey
6	red	blue
7	red	orange
8	red	green
9	red	brown
10	red	grey

## RINGS:

Conductor A: rings in colour of conductor B

Conductor B: rings in colour of conductor A

Units:	identification tape for each unit of 10 pairs
Pair 1-10	blue
Pair 11-20	orange
Pair 21-30	green
Pair 31-40	brown
Pair 41-50	grey
Pair 51-60	white
Pair 61-70	red
Pair 71-80	black
Pair 81-90	yellow
Pair 91-100	violet