

ELQXB

Halogen-free, paired telecommunication cable



internal
application



EN 60332-1-2



halogen-free
EN 60754



Technical data:

Thermal parameters:

Temperature range:

operating temperature: -40 °C to 80 °C
min. installation temperature: -5 °C

Electrical parameters:

Operating voltage: 100 V

Conductor resistance at 20 °C (max.):

97,5 Ω/km

Insulation resistance: 5 GΩ x km

Max loop resistance unbalance: 2 %

Max capacitance in pair: core/core:

59 nF/km

Max capacitance unbalance:

for ≤ 6 x 2 x 0,5 : 400 pF/500 m

for ≥ 10 x 2 x 0,5: 150 pF/500 m

Attenuation loss at 1 Mhz: 21 dB/km

Mechanical parameters:

Min. bending radius: 10 x Ø

Standards:

IEC 60332-1

IEC 60754-2

SS 424 16 08

Design:

Conductors:

solid, bare, copper conductors

Insulation:

special PE

Core identification:

core "a" - blue, orange, green, brown, grey
core "b" - white or red with 2 longitudinal stripes of colour
"a" core

Core arrangement:

cores twisted in pairs, pairs in bundles wrapped with
identification tapes, bundles twisted together in layers

Outer sheath:

special, halogen-free and flame retardant compound
acc. to EN 60332-1-2, colour: white

Application:

Halogen-free data transmission cable for numerical control systems. Suitable for fixed
installations indoors. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x 2 x mm	Outer diameter* [mm]	Approximate cable weight [kg/km]
TP1000	1x4x0,5*	3,4	17
TP1001	2x2x0,5	4,1	22
TP1002	4x2x0,5	5,6	36
TP1003	6x2x0,5	6,5	48
TP1004	10x2x0,5	7,7	73,5
TP1005	20x2x0,5	10,4	137
TP1006	30x2x0,5	12,2	196
TP1007	50x2x0,5	15,5	325
TP1008	100x2x0,5	20,5	565

*Outer diameter tolerance: +/-5%

(*) 1x4x0,5 mm twisted as diagonal pair

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

Note: On customer's request other cross sections or number of cores can be produced

Insulation colours:

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

core A	core B	core C	core D
blue	turquoise	white	violet
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		