

BiTsensor®PE(St)CH

Halogen-free cable for RS 485 transmission



Technical data:

Thermal parameters:

Operating temperature: -40 °C to 80 °C
Min. installation temperature: -20 °C

Electrical parameters:

Operating voltage: 300V
Test voltage: 2500V
Wave impedance: 120 Ω ±10%
Max. capacitance in pair: 42 nF/km

Mechanical parameters:

Min. bending radius: 30mm

Design:

Conductors: stranded tinned copper conductors class 2 acc. to EN 60228, IEC 60228
Insulation: foamed polyethylene with a thin external layer of solid polyethylene
Conductor colours: acc. to the table
Screens: aluminium backed polyester tape on every pair, tinned copper drain wire and tinned copper wire braid
Outer sheath: special halogen-free, self-extinguishing and flame retardant compound (acc. to EN 60332-1-2, IEC 60332-1), colour: green

Application:

Cable BiTsensor®PE(St)CH is dedicated for EIA/RS-485 transmission. The cable has a low capacity, thus ensuring high transmission speed for long connections. Used in protocol-based networks BACnet MS/TP, Linknet, MODbus RTU, etc. Cables may be used in dry and damp rooms, and are suitable for fixed installations. Cables classified according to **PN-EN 50575 (CPR)**.

Cat. no.	Cable type	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]	Conductor colours
LP0178	BiTsensor®PE(St)CH 1x2x0,22 mm ²	1x2x0,22	5,6	41	white, blue
LP0185	BiTsensor®PE(St)CH 2x2x0,22 mm ²	2x2x0,22	7,1	62	Pair 1: white, blue Pair 2: red, black

*Outer diameter tolerance: +/-5%
Cable Factory BITNER reserves the right to modify specifications without prior notification