



internal application



EN 60332-1-2



halogen-free
EN 60754



low smoke emission
EN 61034

Technical data:

Thermal parameters:

Temperature range:

operating temperature: -15 °C to 80 °C
installation temperature: -10 °C to 50 °C

Electrical parameters:

Operating voltage: 100 V

Conductor resistance:

for 0,22 mm² (max) 90 Ω/km
for 1,0 mm² (max) 20,2 Ω/km

Insulation resistance:

for HFFR insulated conductors (min)

500 MΩ x km

for PE insulated conductors (min)

5000 MΩ x km

Max capacitance in signalling pair:

for 1 x 2 x 0,22: 75 nF/km

for 2 x 2 x 0,22: 65 nF/km

Mechanical parameters:

Min. bending radius: 10 x Ø

Design:

Conductors:

power conductors: stranded, tinned copper conductors
1,0 mm² (7 x 0,43 mm)

Signalling conductors:

stranded, bare copper conductors 0,22 mm² (7 x 0,2 mm)

Insulation:

power conductors: halogen free, flame retardant compound

Signalling conductors:

PE

Core identification:

power conductors: red, black

signalling conductors: white, blue

Core arrangement:

power cores twisted together with signalling pair

Screen:

(on signalling pair) aluminium backed polyester tape with tinned copper drain wire

Outer sheath:

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

Application:

Halogen-free composite cable for application in control and measuring systems. Cable's construction combines both signalling and power supply. Designed for indoor installations. Cables classified according to **EN 50575 (CPR)**.

Cat. no.	n x mm	Outer diameter* [mm]	Approximate cable weight [kg/km]
TP1050	2x1+1x2x0,22	6,5	59
TP1051	2x1+2x2x0,22	8,0	76

*Outer diameter tolerance: +/-5%

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