

# RD-H(St)H Bd



Halogen-free cables for analogue and digital data transmission



## Technical data:

Data transmission cable with halogen-free insulation and outer sheath and common electrostatic screen

**Operating temperature:** -30°C to 80°C

**Min. installation temp.:** -5°C

**Operating voltage (peak value):**

U=600 V

**Test voltage (core /core or core/screen):**  
2000 V

**Insulation resistance:** 100 MΩ x km

**Conductor loop resistance at 20°C:**  
73,6 Ω/km

**Effective capacitance:** <100 nF/km

(at number of pairs ≥ 4 this value may be 20% greater)

**Capacitance asymmetry:** < 200 pF/100m

**Impedance:**

At 1 kHz 370 Ω

At 10 kHz 130 Ω

**Attenuation loss:**

At 1 kHz 1,2 dB/km

At 10 kHz 3 dB/km

Near-end crosstalk attenuation at

10 kHz and 500 m ≥ 60 dB

**Min bending radius:** 10xØ

## Design:

**Insulation:** special halogen-free compound

**Conductor marking:** colours (cf. table of conductor colours)

**Stranding element:** cores twisted in pairs, 4 pairs twisted in bundle, bundles wrapped with identification tape and twisted together

**2 Screen:** aluminium backed polyester tape with tinned copper wire 0,5 mm

**Sheath:** special halogen-free compound, self-extinguishing and flame retardant (as per EN 60332-3-24, IEC 60332-3 cat. C)

**Sheath colour:** grey

## Application:

Cables designed for transmission of analogue and digital signals over frequency bands up to 10 kHz. They are suitable for use in internal systems, in both dry and damp rooms. They may be applied in the MAXI-TERMI-POINT technique. The special bundled construction reduces the impact of penetration from adjacent symmetric lines, while the common screen protects against external interferences.

Cat. no.	nx2xmm <sup>2</sup>	Outer diameter* [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
S10050	2x2x0,5	8,6	84	24
S10051	4x2x0,5	9,8	132	43
S10052	8x2x0,5	14,8	219	82
S10053	12x2x0,5	16,6	292	120
S10054	16x2x0,5	17,5	359	158
S10056	24x2x0,5	21,4	506	235
S10058	32x2x0,5	23,7	663	312
S10061	48x2x0,5	30,2	981	466

### Core marking:

Pair no.	Core "a"	Core "b"
1	blue	red
2	grey	yellow
3	green	brown
4	white	black

\*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

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