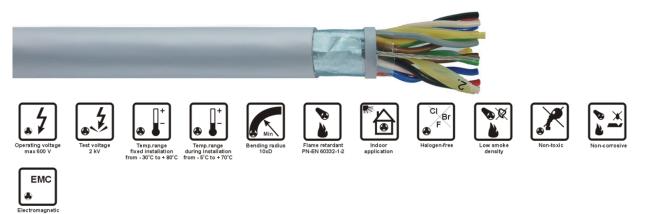


RD-H(St)H nx2x0,5 mm² Bd

UNIT TYPE CONTROL CABLES FOR POWER STATIONS



APPLICATIONS

RD-H(St)H n x 2 x 0,5 mm² Bd are unit type control cables intended for analogue or digital data transmission up to 10 kHz.

Pair lay lengths are designed to ensure minimum near-end cross-talks in units.

An electrostatic shield protects the cables against interference by external electric fields.

Halogen free cables, applied when higher safety in case of fire is required. The cables are flame retardant, their smoke emission in fire is low and released gases are not corrosive.

The cables are suitable for indoor installations connecting fixed and movable equipment.

The cable is also suitable for Maxi-Termi-Point jointing technique.

CONSTRUCTION

- flexible, multiwire conductors, stranded of bare annealed copper wires (tin-plated on request), regular construction 7 wires,
- insulation made of halogen free compound (HFFR),
- insulated conductors twisted into pairs, star-quad assembly in the case of two-pair cable, colour of insulated conductors:

pair number	"a" wire	"b" wire		
1	blue	red		
2	grey	yellow		
3	green	brown		
4	white	black		

- four pairs stranded into a unit and bound up with a polypropylene binder marked with unit number,
- units laid-up into a cable core,
- cable core wrapped in polyester tape,
- overall electrostatic shield incorporating aluminium-polyester tape and stranded annealed tinned copper drain wire, cross-section 0.5 mm² (7x0.3 mm),
- cable sheath made of halogen free compound (HFFR), grey (RAL 7001), other colours also available.

AVAILABLE UPON REQUEST

RD-H(St)HH n x 2 x 0,5 mm² Bd - cables with double HFFR sheath, suitable for outdoor installation and direct earth burial.

RD-H(St)H nx2x0,5 mm² Bd



CHARACTERISTICS

Operating voltage, peak value Voltage test conductor/conductor	600 V 2.0 kV rms	Operating temperature range for fixed installation for movable installation		
conductor/screen	2.0 kV rms	Minimum bending radius		
DC loop resistance at 20°C, maximum	73.6 Ω/km	Corrosivity of emitted gases per		
Insulation resistance, minimum Current-carrying capacity limit	100 MΩ·km 6 A	pH appr. conductivity appr.		
Mutual capacitance at 800 Hz, maximum Near-end cross-talk at 10 kHz.	100 nF/km*)	Smoke density light transmittance, minimum		
minimum	60 dB/km	Cable combustibility		
Characteristic impedance, nominal at 1 kHz at 10 kHz	370 Ω 130 Ω	Combustibility tests Reference standards		
Attenuation loss, nominal at 1 kHz at 10 kHz	1.2 dB/km 3.0 dB/km			

from - 30 to + 80°C from - 5 to + 70°C 10 x cable diameter

PN-EN 60754-1, PN-EN 60754-2, IEC 60754-2 6.8 0.4 µS/mm PN-EN 61034-2, IEC 61034-2

70 % flame retardant PN-EN 60332-1-2, IEC 60332-1-2 DIN VDE 0815

*) this value can be higher by 20 % in four or less pair cable

$C \in$ = the cable meets requirements of the low voltage directive 2014/35/EU

Product No.	Number of pairs (x 2) x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)	Product No.	Number of pairs (x 2) x conductor cross-section	Cable outer diameter (appr.)	Copper index	Cable weight (appr.)
	mm²	mm	kg/km	kg/km		mm ²	mm	kg/km	kg/km
0217 003	2 x 2 x 0,5	5.8	26.0	60	0217 006	16 x 2 x 0,5	15.0	167.0	310
0217 004	4 x 2 x 0,5	8.4	46.0	103	0217 010	24 x 2 x 0,5	19.0	250.0	485
0217 001	8 x 2 x 0,5	12.6	86.0	195	0217 007	32 x 2 x 0,5	20.9	331.0	615
0217 005	12 x 2 x 0,5	13.1	127.0	250	0217 008	48 x 2 x 0,5	25.3	494.0	905

Other cross-sections and pair counts available on request.

TECHNOKABEL S.A. reserves the right to change specifications without prior notice.