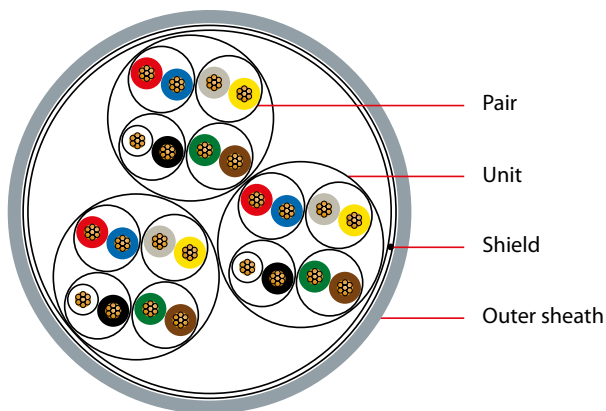


RD-H(St)H Bd Eca

construction and core identification
in resemblance to DIN VDE 0815



APPLICATION

As data transmission cable for transmission rates up to 10 kHz, mainly in power stations and other industrial plants.

CONSTRUCTION

Conductor: copper strand, bare, flexible

0.5 mm²: 7 x 0.3 mm (Ø 0.9 mm)

0.75 mm²: 7 x 0.37 mm (Ø 1.11 mm)

1.0 mm²: 7 x 0.43 mm (Ø 1.3 mm)

Core insulation: halogen-free compound

Core stranding: 4 pairs to unit, units in layers

Lapping: plastic foil

Screen: tinned drain wire, 7 x 0.3 mm;

plastic-laminated aluminium foil

Outer sheath: halogen-free compound; colour: grey RAL 7000

ELECTRICAL CHARACTERISTICS

(Conductor) loop resistance max. 0.5 mm² 78.4 Ω/km

(Conductor) loop resistance max. 0.75 mm² 52.3 Ω/km

(Conductor) loop resistance max. 1.0 mm² 36.8 Ω/km

Insulation resistance min. 100 MΩ x km

Char. Impedance (1 kHz) 0.5 mm² 370 Ω

Char. Impedance (1 kHz) 0.75 mm² 320 Ω

Char. Impedance (1 kHz) 1.0 mm² 260 Ω

Mutual capacitance (800 Hz) max. 120 nF/km
2 and 4 pair cable plus 20% permitted
1 pair 180nF/km

Capacitance unbalance (800 Hz) max. 200 pF/100m

Wave attenuation (1 KHz) 0.5 mm² 2.8 dB

Wave attenuation (1 KHz) 0.75 mm² 2.0 dB

Wave attenuation (1 KHz) 1.0 mm² 1.2 dB

Crosstalk attenuation (10 kHz) min. 60 dB/500 m

Test voltage core-core 2000 V 50 Hz 2 min

Test voltage core-screen 2000 V 50 Hz 2 min

Peak operating voltage 600 V

Dimension	Sheath thickness approx. mm	Diameter approx. mm	Cable weight approx. kg/km	Copper index kg/km
2 x 2 x 0.5	1.0	6.0	60	25
4 x 2 x 0.5	1.0	8.0	95	45
8 x 2 x 0.5	1.0	11.0	160	85
12 x 2 x 0.5	1.0	12.0	210	125
16 x 2 x 0.5	1.0	12.8	260	165
20 x 2 x 0.5	1.0	14.0	320	205
24 x 2 x 0.5	1.0	15.5	370	245
32 x 2 x 0.5	1.2	19.5	510	325
40 x 2 x 0.5	1.2	21.0	610	405
1 x 2 x 0.75	1.0	6.0	50	21
2 x 2 x 0.75	1.0	6.5	71	38
4 x 2 x 0.75	1.0	8.7	120	70
8 x 2 x 0.75	1.0	12.2	210	135
12 x 2 x 0.75	1.2	13.5	295	200
16 x 2 x 0.75	1.2	14.6	370	265
20 x 2 x 0.75	1.2	16.0	450	330
24 x 2 x 0.75	1.2	17.5	525	395
32 x 2 x 0.75	1.4	22.1	720	526
40 x 2 x 0.75	1.6	24.0	895	656
2 x 2 x 1.0	1.2	8.0	95	51
4 x 2 x 1.0	1.2	10.7	165	91
8 x 2 x 1.0	1.4	15.5	305	171
12 x 2 x 1.0	1.4	16.5	410	252
16 x 2 x 1.0	1.6	18.5	540	332
20 x 2 x 1.0	1.6	20.5	650	413
24 x 2 x 1.0	1.6	22.0	760	493
32 x 2 x 1.0	1.8	28.0	1030	654
40 x 2 x 1.0	2.0	30.0	1270	816

THERMAL & MECHANICAL PROPERTIES

Temperature range during installation -5°C to +50°C

Temperature range stationary -30°C to +70°C

Minimum bending radius 7.5 x diameter

BEHAVIOUR UNDER FIRE CONDITIONS

Zero halogen, non corrosive gases: IEC 60754-2, DIN EN 50267

Flame retardant: IEC 60332-1-2, DIN EN 60332-1-2

Fire retardant: IEC 60332-3-24, DIN EN 60332-3-24

Smoke density: IEC 61034, DIN EN 61034

Subject to changes due to technical progress and error



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