Technical specification for EIB BUS cable
YCYM, 0,8 mm copper conductors, FR-PVC insulation, static Aluminium screen and FR-PVC jacket
EN 50575:2014+A1:2016 (CPR 305/11) Class Cca-s3-d1-a3

EIB BUS CABLE
EIB BUS YCYM 2x2x0.8 Cca, 250/250 V

Costruction

Conductor

Material:	Soft annealed copper wire
Diameter :	0,8 mm

Insulation

FR-PVC Material	YI1
Thickness (Nominal)	0,4 mm
Stranding	Quad

Quad Colour Code

a-wire Pair 1	Red
b-wire Pair 1	Black
a-wire Pair 2	White
b-wire Pair 2	Yellow

Core wrapping	Plastic tape
Screen	Laminated Aluminium/plastic tape
Drain wire	Tinned copper wire, 0,4 mm ϕ

Sheath

FR-PVC Material	YM1
Thickness (Nominal)	1,0 mm
Cable diameter (Nom.)	5,7 mm
Cable weight (Nom.)	51 kg/km
Sheath colour	Green (RAL 6018)

Marking
EIB BUS YCYM 2X2X0.8 - EN50575:2014+A1:2016 - Class Cca-s3 d1-a3 - week/year of production - CE mark + metric marking

Electrical Characteristics

Nominal Voltage U_o /U	250/250 V (Eff.)
Working Voltage	max. 350 V

Voltage test

wire/wire	1 kV, 5 min
wire/screen	1 kV, 5 min
high voltage withstand (sheath to H_2O)	4 Kv
Insulation resistance	min. 100 MΩ x 1km

Transmission Characteristics

Conductor resistance at 20°C	max. 73,2 Ω/km

Mutual capacitance
at 800 Hz — max. 100 nF/km

Capacitance unbalance
at 800 Hz — max. 300 pF/100m

Characteristic Impedance | Z |	see Table 1
Attenuation α	see Table 1
Near end crosstalk (NEXT)	see Table 1

Other characteristics
Mechanical/thermal characteristics according to DIN VDE 0472
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Table 1 - Typical Value for EIB-BUS YCYM 2x2x0.8

FREQUENCY MHz	Characteristic Impedance | Z | Ω	Attenuation α dB / km	Near end crosstalk NEXT dB
0,001	330 ± 50	max. 1,4	min. 80
0,01	120 ± 20	max. 3,1	min. 70
0,1	100 ± 15	max. 8,2	min. 60

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0	08-02-2018	Prima emissione / *First issue*	G. Maiorani	G. Di Censo