

Technical specification for YCYM EIB BUS cable, 250 V, 0.8 mm copper conductors, PVC insulation, static Aluminium screen and PVC jacket

EIB BUS CABLE

YCYM 2x2x0,8 EIB BUS - 250/250 V

Costruction		Electrical Characteristics	
<u>Conductor</u>		<u>Nominal Voltage U_0/U</u>	250/250 V (Eff.)
Material:	Soft annealed copper wire	<u>Working Voltage</u>	max. 350 V
Diameter :	0.8 mm	<u>Voltage test</u>	
<u>Insulation</u>		wire/wire	1 kV, 5 min
PVC Material	YI1	wire/screen	1 kV, 5 min
Thickness (Nominal)	0.4 mm	high voltage withstand (sheath to H ₂ O)	4 Kv
Stranding	Quad	<u>Insulation resistance</u>	min. 100 MΩ x 1km
<u>Quad Colour Code</u>		<u>Transmission Characteristics</u>	
a-wire Pair 1	Red	<u>Conductor resistance at 20°C</u>	max. 73.2 Ω/km
b-wire Pair 1	Black	<u>Mutual capacitance</u>	
a-wire Pair 2	White	at 800 Hz	max. 100 nF/km
b-wire Pair 2	Yellow	<u>Capacitance unbalance</u>	
<u>Core wrapping</u>		at 800 Hz	max. 300 pF/100m
<u>Screen</u>		Laminated Aluminium/plastic tape	<u>Characteristic Impedance Z₀ </u>
<u>Drain wire</u>		Tinned copper wire, 0.4 mm φ	see Table 1
<u>Sheath</u>			<u>Attenuation α</u>
PVC Material	YM1		see Table 1
Thickness (Nominal)	1.0 mm		<u>Near end crosstalk (NEXT)</u>
Cable diameter (Nom.)	5.7 mm		see Table 1
Cable weight (Nom.)	51 kg/km		see Table 1
Sheath colour	Green (RAL 6018)		
Marking	EIB BUS 2X2X0,8		

Other characteristics

Mechanical/thermal characteristics according to DIN VDE 0472
 Fire test according to DIN VDE 0472 Teil 804, Prüfmart B

Table 1 - Typical Value for YCYM 2x2x0.8 EIB BUS

FREQUENCY MHz	Characteristic Impedance Z ₀ 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

Rev.	Data / Date:	Descrizione modifiche / Changes description	Emesso / Issued	Approvato / Approved
01	26-08-2008	Mod.car.elettriche / Mod.electrical char.	G. Maiorani	G. Di Cenzo
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