



Safety Bus

Application:

Safety Bus is an open Fieldbus system based on well established CAN Bus technology. Safety Bus modules must be self monitoring, perform intelligent checks and reactions independently and therefore remain "safe". Several versions of Safety Bus cables are available depending on the application and environmental conditions. The transmission rate is up to 500 Kbit/s



Construction:

Type/Area of Application	Fixed Installation, Indoor
Cable Construction	3x0.75 mm ² (stranded)
Inner Conductor Diameter	Copper, bare (AWG 18/24)
Conductor Insulation	Foamed PP with a hard skin
Conductor Colors	white, brown, green
Stranding Element	Triple conductor
Wrapping	Polyester foil over stranded bundle
Total Shielding	Copper braid, tinned
Outer Jacket Material	FRNC/PUR/PVC/LSHF
Outer Diameter	7.5 mm ± 0.3 mm
Outer Jacket Color	Yellow



Electrical Data:

Characteristic Impedance@1MHz	120 Ω ± 10 Ω				
Conductor Resistance	52.0 Ohm/km max.				
Insulation Resistance	0.20 GOhm x km min.				
Mutual Capacitance@800Hz	45.0 nF/km nom.				
Working Voltage	Max: 250 V				
Test Voltage	3.0 KV				
Data Rate	500 Kbit/s			100m	
	250 Kbit/s			250m	
	125 Kbit/s			500m	
	50 Kbit/s			1000m	
Attenuation	1	MHz	<	1.6	dB/100m
	5	MHz	<	3.4	dB/100m
	10	MHz	<	5.6	dB/100m
	16	MHz	<	7.5	dB/100m

Technical Data:

Weight	approximately 68.0 kg/km
Min. Bending Radius (Laying)	10 x OD mm
Operating Temp.Range, min.	- 30 °C
Operating Temp.Range, max.	+80 °C

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