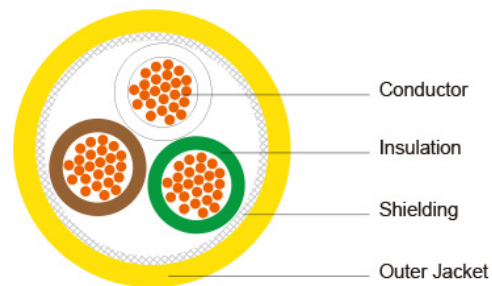


**Safety Bus**



**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:**

<b>Type/Area of Application</b>	Fixed Installation, Indoor
<b>Cable Construction</b>	3x0.75 mm <sup>2</sup> (stranded)
<b>Inner Conductor Diameter 1</b>	Copper, bare (AWG 18/24)
<b>Conductor Insulation</b>	Foamed PP with a hard skin
<b>Conductor Colors</b>	white, brown, green
<b>Stranding Element</b>	Triple conductor
<b>Shielding 1</b>	Polyester foil over stranded bundle
<b>Shielding 2</b>	-
<b>Total Shielding</b>	Copper braid, tinned
<b>Outer Jacket Material</b>	FRNC/PUR/PVC/LSHF
<b>Outer Diameter</b>	7.5 mm ± 0.3 mm
<b>Outer Jacket Color</b>	Yellow

**Electrical Data:**

<b>Characteristic Impedance@1MHz</b>	120 Ω ± 10 Ω
<b>Conductor Resistance</b>	52.0 Ohm/km max.
<b>Insulation Resistance</b>	0.20 GOhm x km min.

<b>Mutual Capacitance@800Hz</b>	45.0 nF/km nom.		
<b>Working Voltage</b>	Max: 250 V		
<b>Test Voltage</b>	3.0 KV		
<b>Data Rate</b>	500 Kbit/s		100m
	250 Kbit/s		250m
	125 Kbit/s		500m
	50 Kbit/s		1000m
<b>Attenuation</b>	1MHz	<	1.6dB/100m
	5MHz	<	3.4dB/100m
	10MHz	<	5.6dB/100m
	16MHz	<	7.5dB/100m

Technical Data:

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