CAN-Bus

Application:

CAN Bus are field bus cables that comform to international CAN standard ISO-11898, CAN Bus (Control Area Network) is a non addressable system which treats all devices as equal allowing fast transmission of data. Due to its robust nature it has been widely adopted in the automotive industry. Several versions of CAN Bus cables have been developed to meet the fast changing needs of the automation industry. The PVC jacket version is designed for stationary applications,while the Halogen free PUR version is for highly flexing application

Construction:

Type/Area of Application	Fixed Installation, Indoor	Fixed Installation, Indoor
Cable Construction	1x2x0.22 mm^2 (stranded)	4x1x0.22 mm^2 (stranded)
	1x2x0.34 mm^2 (stranded)	4x1x0.34 mm^2 (stranded)
	1x2x0.50 mm^2 (stranded)	4x1x0.50 mm^2 (stranded)
Inner Conductor	Copper, bare (AWG 24/7)	Copper, bare (AWG 24/7)
	Copper, bare (AWG 22/7)	Copper, bare (AWG 22/7)
	Copper, bare (AWG 20/7)	Copper, bare (AWG 20/7)
Conductor Insulation	CellularPE	Cellular PE
Conductor Colors	white, brown	white, brown, green-yellow
Stranding Element	Double conductor	Star quad
Wrapping	Polyester foil over stranded bundle	Polyester foil over stranded bundle
Shielding	-	-
Total Shielding	Copper braid, tinned	Copper braid, tinned
Outer Jacket Material	PVC(static) / PUR(flexing)	PVC(static) / PUR(flexing)
Outer Diameter	5.4 mm ± 0.2 mm	6.9 mm ± 0.2 mm
	6.5 mm ± 0.2 mm	8.0 mm ± 0.2 mm
	7.0 mm ± 0.2 mm	8.5 mm ± 0.2 mm
Outer Jacket Color	Violet	Violet

Electrical Data:

Characteristic Impedance@1MHz	120 Ω ± 10 Ω	120 Ω ± 10 Ω
Conductor Resistance	186.0 Ohm/km max.	186.0 Ohm/km max.
Insulation Resistance	1.00 GOhm x km min.	1.00 GOhm x km min.
Mutual Capacitance@800Hz	40.0 nF/km nom.	40.0 nF/km nom.
Working Voltage	250V	250V
Test Voltage	1.5 kV	1.5 kV
Attenuation	1 MHz	1.3 dB/100m
	5 MHz	3.1 dB/100m
	10 MHz	4.3 dB/100m
	20 MHz	6.4 dB/100m

Technical Data:

Weight	approximately 35.0 kg/km	approximately 60.0 kg/km
	approximately 54.0 kg/km	approximately 77.0 kg/km
	approximately 69.0 kg/km	approximately 100.0 kg/km
Min. Bending Radius (Laying)	15 x OD mm	15 x OD mm
Operating Temp.Range, min.	- 40 °C	- 40 °C
Operating Temp.Range, max.	+70 °C	+70 °C