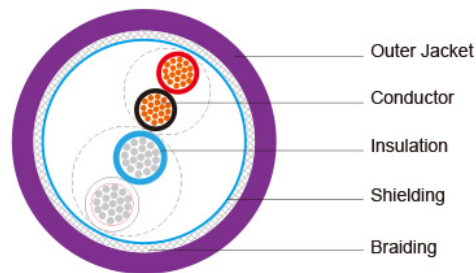


DeviceNet™



Application:

DeviceNet™ communication link is based on proven CAN technology. DeviceNet™ is a bus system developed by Allen Bradley (Rockwell Automation). These cables are used to interconnect various industrial devices, such as SPS controls or limit switches. The special characteristic of this bus system is that a data pair and a power supply pair are integrated in one cable. These cables with PVC jacket are designed for fixed installation.

Construction:

Type/Area of Application	DeviceNet Drag	DeviceNet Trunk
Cable Construction	1x2x0.96mm ² + 1x2x1.53mm ²	1x2x0.24mm ² + 1x2x0.38mm ²
Inner Conductor Diameter 1	Copper, tinned (AWG 18/19)	Copper, tinned (AWG 24/19)
Inner Conductor Diameter 2	Copper, tinned (AWG 15/19)	Copper, bare (AWG 22/19)
Conductor Insulation 1	Foam-skin-PE/PE/Cell PE	Foam-skin-PE/PE/Cell PE
Conductor Insulation 2	PVC/ PE/ Cell PE	PVC/ PE/ Cell PE
Conductor Colors 1	light blue, white	light blue, white
Conductor Colors 2	red, black	red, black
Stranding Element	Double conductor	Double conductor
Shielding 1	-	-
Shielding 2	Polyester foil, aluminum-lined	Polyester foil, aluminum-lined
Total Shielding	Copper braid, tinned	Copper braid, tinned
Drain Wire	yes	yes
Outer Jacket Material	PVC/ PUR/ PE/ FRNC	PVC/ PUR/ PE/ FRNC
Outer Cable Diameter	7.0 mm ± 0.3 mm	12.0 mm ± 0.3 mm
Outer Jacket Color	Grey/ Violet/ Yellow	Grey/ Violet/ Yellow

Electrical Data:

Characteristic Impedance@1MHz	120 Ω ± 10 Ω	120 Ω ± 10 Ω		
Conductor Resistance	45 Ohm/km max.	180.0 Ohm/km max.		
Insulation Resistance	0.20 GOhm x km min.	0.20 GOhm x km min.		
Mutual Capacitance@800Hz	39.8 nF/km nom.	39.8 nF/km nom.		
Working Voltage	Max: 300V	Max: 300V		
Test Voltage	2.0 KV	2.0 KV		
Data Rate	125 Kbit/s	500m	125 Kbit/s	100m
	250 Kbit/s	250m	250 Kbit/s	100m
	500 Kbit/s	100m	500 Kbit/s	100m
Attenuation	125KHz	< 0.42dB/100m	125MHz	< 0.95dB/100m
	500KHz	< 0.81dB/100m	500MHz	< 1.64dB/100m
	1MHz	< 1.26dB/100m	1MHz	< 2.38dB/100m

Technical Data:

Weight:	approximately 195.0 kg/km	approximately 69.0 kg/km
Min. Bending Radius (Laying):	10 x OD mm	10 x OD mm
Operating Temp.Range, min.	- 20 °C	- 20 °C
Operating Temp.Range, max.	+80 °C	+80 °C