Letronic Bus-Combi L2/FIP 7-wire 1x2x0,64Ø+3x1.0

Application

Data cable with integrated power supply for the bus-logic of SIEMENS field-net Sinec L2 DP (acc. to DIN 19245 part 3 and EN 50170), for fieldbus system FIP (Factory Instrumentation Protocol) as well as for high performance data networks with 150 nominal impedance. The cable is designed for the system-defined transmission rates of 1.5 Mbit/s, 2.5 Mbit/s and 12 Mbit/s, the transmission characteristics conform to the system and guarantee a high operating security during data transmission.
The cable is intended for limited flexible use and for permanent installation in dry and damp interiors. The double screening ensures a reliable transmission of data It is suitable for installation in electromagnetically bonded areas.

Data pairs:	stranded conductor:	bare copper, 0.22 mm² (24AWG), 7 x 0.2
insulation:	PE, core diameter approx. 2.5 mm	
coding:	cores red and green	
stranding:	2 cores together with 2 fillers (core-filler-core-filler)	
screening:	plastic laminated aluminium-foil , metal-side outwards, braid of tinned copper	

Cores of power supply:	stranded conductor:	bare copper, 1.0 mm² (18AWG), 19 x 0.25
insulation:	PE, core diameter approx. 1.7 mm;	
core colour:	green/yellow, black and blue.	

Stranding:	screened data pair with 3 cores twisted to power supply, wrapping: one layer of non woven tape.
Sheath:	PVC, violet RAL 4001, Outer diameter approx. 9.8 mm

Electrical characteristics at 20°C

Data transmissions pairs:		Loop resistance max. Ohm/km 186
Screen resistance:		max. Ohm/km 10
Insulation resistance:		min. GOhmxkm 5
Mutual capacitance at 800 Hz		nom. nF/km 28
Impedance at 9.6 kHz		Ohm 270 ± 27
at 30.25 kHz	Ohm 185 ± 18.5	
at 3 to 20 kHz	Ohm 150 ± 15	
Line attenuation at 9.6 kHz		max. dB/100 m 0.3
at 38.4 kHz	max. dB/100 m 0.4	
at 4 kHz	max. dB/100 m 2.5	
at 16 MHz	max. dB/100 m 4,9	
Transfer impedance at 20 MHz		max. mOhm/m 10
Nominal velocity of propagation		nom. 0,81c
Cores power supply Conductor resistance		max.Ohm/km 26
Insulation resistance		min. MOhmx km 20
Cable core:		
Peak operation voltage		Ueff V 100
(not for purposes of power/high voltage		current)
Test voltage		Ueff V 1500

Mechanical and thermal characteristics

Minimum bend radius	static mm 60
flexible mm 90	
Pulling force	min.N 100
Temperature range	static °C - 40 up to + 80
flexible °C - 5 up to + 50	
Burning load	kWh/m approx. 0,260
Flammability	flame retardant to VDE 0482, part 265-2-1 / IEC 60 332-1

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- Further formats available on request
- All data and products subject to change