

LK BUS CABLE

PROFIBUS PA100Ω 1x2xAWG18 PVC



Specification

■ Inner Conductor	Bare Copper	
■ Insulation	Foamed PE	
■ Insulation Color	Green/Red	
■ Filler Material	PE Strip	
■ Foil Shield	AL-PET	>110%
■ Braiding Shield	Tinned Copper	96 x 0.12±0.008
■ Coverage		≥60%
■ Jacket	PVC	
■ Jacket Color	Blue RAL 5015 or Black	

Electrical Performance (20°C)

■ Voltage Rating	: 300 V
■ Test Voltage (50Hz, 1min)	: AC 2000V
■ Mutual Capacitance(nominal)	: 60nF/Km
■ Impedance	: 100 ± 20Ω @31.25kHz
■ Conductor Loop Resistance (max.)	: 43.6Ω/km
■ Min Bending Radius	: 7.5 x Cable diameter
■ Attenuation (max.)	: 3.0 dB/Km @39kHz

APPLICATIONS

Fieldbus Cable for Profibus PA with additional power supply for the devices acc. To IEC 61158-2



APPLICATIONS

- Fieldbus cable for Profibus PA system
- Connect bus segments using the RS485 and IEC 61158-2 transmission method



THERMAL PERFORMANCE

- Maximum services temperature: 80°C
- Minimum services temperature: -20°C



BASED ON

- EN 61784
- IEC 61158-2



MECHANICAL PERFORMANCE

- Minimum bending radius: 7.5 x Cable diameter



ENVIRONMENTAL PERFORMANCE

- Water resistance: AD5 Jets
- Chemical & Oils resistance: Good



APPROVALS

- RoHS



ELECTRICAL PERFORMANCE

- Low Voltage : 300V
- Test Voltage : AC 2000V



FIRE PERFORMANCE

- Flame non-propagation base on IEC 60332-1



INSTALLATION CONDITIONS

- In conduit
- Open Air

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Type	Dimension	Cu content kg/km	Outer diameter approx.mm	Weight approx. kg/km
Profibus PA - BU	1 x 2 x AWG 18/1	45.0	8.0	76
Profibus PA - BK	1 x 2 x AWG 18/1	45.0	8.0	76

