

**NORTHWIRE[®]**
INC

A LEMO Group Company

100 BASE-T1 Data Sheet

Northwire's 100 BASE-T1 ruggedized high-speed ethernet cable was designed to meet automotive requirements for larger bandwidth demands.

- Unshielded Single Twisted Pair Ethernet
- Transmit data at 100 Mbps
- Communication
- Vision Systems
- Sensor Cables
- Heavy Equipment
- Industrial Equipment
- Category Cable Component

We can design and build many custom versions of cable within the 100 BASE-T1 standard with a variety of gauge sizes and constructions available. Below is an example of a 100 BASE-T1 cable for visual and audio systems with two 22 AWG power wires.

Test Parameter		Limit (max value for parameter)	
CIDM	ZRF	100 Ω +/- 10%, valid for 700 ps rise time evaluation) ₃ Evaluation window: 1 = 0.5m to 1.5m, see) ₄	
IL) ₅	S _{dd21}) ₂	<u>Maximum length of SCC = 15m:</u> 1 MHz: 0.06 dB/m 10 MHz: 0.16 dB/m 33MHz: 0.31 dB/m 66 MHz: 0.45 dB/m	
		<u>Maximum length of SCC = 10m:</u> 1 MHz: 0.09 dB/m 10 MHz: 0.24 dB/m 33MHz: 0.46 dB/m 66 MHz: 0.68 dB/m	
RL	S _{dd11} , S _{dd22}) ₁	1 MHz: 20 MHz: 66 MHz:	20.0 dB 20.0 dB 14.8 dB
LCL LCTL	S _{dd11} , S _{dd22}) ₁ S _{dd21} , S _{dd12}) ₁	1 MHz: 50 MHz: 200 MHz:	46.0 dB 46.0 dB 34.0 dB

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