

# WERTH MLI-6015

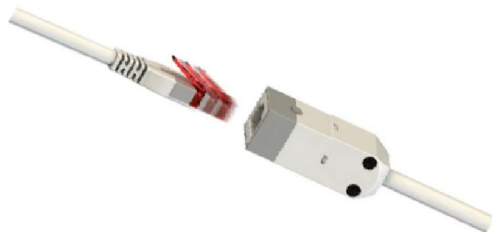
Medical Gigabit Network Isolator with 6 kV Isolation and Over-Tension Auto-Release



UL File Number: E496012

- ▶ safe - certified to the latest UL/IEC 60601-1: 2012 3rd. Edition standard
- ▶ enhanced reinforced isolation - 6000 V AC for 1 minute
- ▶ tensile force limiter with auto-release - reduces the risk of tripping over cables
- ▶ flexible - optional installation frames available
- ▶ durable - no ageing parts, 5 year warranty and long-term availability

## Isolation & Safety Standard



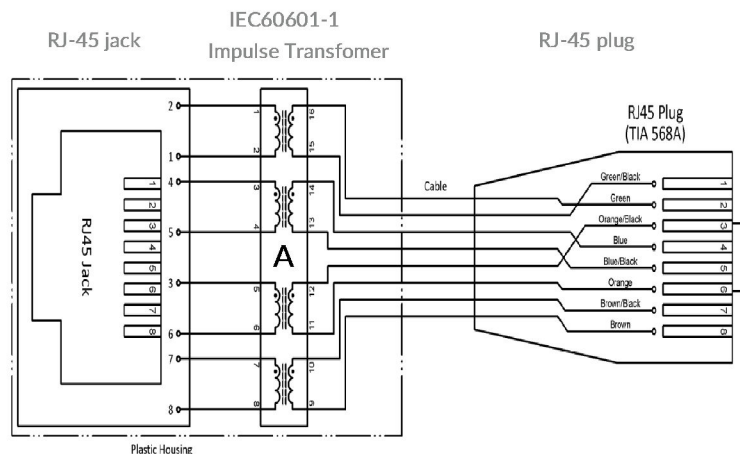
The MLI-6015 is a state of the art Network Isolator which can be used on, or inside of mobile solutions. It is manufactured in Germany under ISO 13485 conditions and every single unit is tested on performance and isolation levels, up to 6000 V AC. This guarantees a ZERO DEFECT RATE.

The new Werth Systems MLI-6015 Network Isolator can be used for medical electrical systems in order to reduce leakage current and isolate applied parts from IT devices. It also protects your devices against equalizing currents, voltages surges, mains hum, ground loops and noise conditions. The MLI-6015 is totally transparent to the network and there is no need for additional drivers, or any additional power supply. Due to very low signal losses and very low capacitance, the isolator supports cable lengths up to 99m without reducing network performance. This permits the installation of a large number of Network Isolators within a large local area network without degradation of network performance.

# Technical Data WERTH MLI-6015

Description	MLI-6015	MLI-6015i
Part Number	2000751	2000792
Isolation Type	reinforced isolation pulse transformer	
Reinforced Isolation UL/IEC60601-1	6 kV AC for 1 minute (50/60Hz), 8.5 kV DC for 1 minute	
Electrostatic Protection	+/- 15 kV (air)	
Working Voltage	max. 400 V AC / 450 V DC	
Insulation Type	2 MOOP / 2 MOPP	
Tensile force limiter with auto-release	Yes, auto-release at 70 N (10 seconds)	
Supported Transfer Rate	10/100/1000 Mbit/s	
Supported Cable Length	up to 99 m	
Return Loss	17 dB typical (100 MHz)	
Insertion Loss	0.4 dB typical (100 MHz)	
Cross Talk	-39 dB min.	
Input Connector	RJ45 plug	
Output Connector	RJ45 jack	
Communication Standard	IEEE802.3 Cl.14, Cl.25, and Cl.40	
Isolated Lines	all lines isolated	
Ground Isolation	Yes	
Plug & Play	Yes, auto-configuration, driverless	
Power Supply	not needed - passive transformer	
Color	white / grey	
Dimensions	47.5x17.4x17.0 mm (WxHxD), 150mm Network cable	
Weight	24 g	
Housing	ruggedized ABS UL94-V0	
Mounting	none -only MLI-6015i: optional Snapfit installation frames available	
IP Classification	IP40	
Temperature Range	-10 °C to 60 °C	
Production Control	ISO 9001 and ISO 13485	
Country of Production	Germany	
Warranty	5 years	
MTTF	more than 4000 years at 25° to 40 °C in 24/7 use	
Safety Level	Single unit performance test and 6000V isolation test	
Norms / Standards	CE, RoHS, UL/IEC60601-1: 2012, IEC60601-1-2: 2014	
Mode of Operation	Continuous	
Scope of Delivery	Blister pack with user manual	

## Options & Electrical Schematic MLI-6015



Isolation Diagram MLI-6015

Area	Number and type of Means of Protection	Material Group (from CTI)	Maximum Operating Voltage		Required creepage distance (mm)	Required clearance distance (mm)	Measured creepage distance (mm)	Measured clearance distance (mm)
			V AC	V <sub>peak</sub>				
A	2 MOPP	IIIb	400	565	12.0	7.0	12.0	9.0



Snapfit installation frame EXT  
only for MLI-6015i  
Material: polyamide, Part.No. 2000790



Snapfit installation frame INT  
only for MLI-6015  
Material: polyamide, Part.No. 2000791