

PB 337

### Lumberg Automation™ Gigabit Ethernet Connectors

The new shielded Gigabit Ethernet connectors from Lumberg Automation impress through their compact design and secure data transmission.



#### **M12 or RJ45 Connectors Permit Flexible Wiring of the Application.**

- Innovative shielding concept ensures reliable data transmission
- Fast and inexpensive startup thanks to molded and field-attachable connector types including individual cable lengths
- The robust design and industrial protection class IP67 (the latter for M12 versions) guarantee high network availability and long product life

The new shielded Gigabit Ethernet connectors from Lumberg Automation turn the network into a data highway: The connectors, which are available in both M12 and RJ45 connection technology, allow maximum data rates – and that applies equally to the field-attachable and flange version, or the plug and connection cables. In addition, the Gigabit Ethernet connectors are able to withstand even the most rugged environmental conditions, as well as extreme heat and cold, thus offering highly available and cost-effective solutions for a host of automation applications.

**A new product to  
serve your needs.  
Be certain.**

#### **Applications**

The shielded Lumberg Automation Gigabit Ethernet connectors are ideal for all applications that depend on both high bandwidth and secure data transmission, such as video surveillance using IP cameras, or infotainment systems in local and long-distance public transport vehicles. The connectors also permit equally high-availability solutions for wiring complex installations with high bandwidth requirements – for instance in mechanical engineering.

#### **Benefits**

Thanks to their innovative shielding concept, the Gigabit Ethernet connectors always offer reliable data communication. Available in molded cable and field-attachable versions (including cable lengths if required), the connectors are quick and cost-effective to put into operation.

In addition, the robust design and industrial protection class IP67 (for the M12 versions), guarantee high network availability and long product life.



## High Flexibility Thanks to M12 or RJ45 Connection Technology

The Gigabit Ethernet connectors support data rates of up to 10 Gbps. An innovative shielding concept that also covers the individual wire pairs guarantees reliable data transmission even in case of strong electromagnetic fields. The connectors also feature a robust design, a temperature range from up to -30°C to +90°C and industrial protection class IP67 for the M12 version. They thus ensure high network availability even under rugged environmental conditions. In addition, they have a long product life.

Innovative shielding concept ensures reliable data transmission.

### The Advantages at a Glance

- Gigabit speeds up to 10 Gbps
- Innovative shielding concept with high resistance to electromagnetic interference
- Flexibility thanks to different versions
- Shockproof and vibration-proof M12 connection technology
- Industrial protection class IP67 (RJ45: IP20)
- Temperature range from up to -30°C to +90°C
- Long product life
- Transmission properties for Cat 6 and Cat 6A compliant with IEC PAS 61076-2-109
- EN 50155 approval for use in railroad vehicles applied for
- Can be ideally combined with Hirschmann™ Industrial Ethernet switches and Belden® cables





## Product Information Gigabit Shielded Ethernet Connectors

### Technical Information

Product Description				
Type	0985 478 600/* M	0985 478 602/* M	0986 EMC 600	0986 EFC 651
<b>Description</b>	Cord sets, single-ended, M12, Industrial Ethernet Data cable for GigaBit Applications, single-ended, molded with M12 male connector, 8 poles X coded	Cord sets, single-ended, RJ45, Industrial Ethernet Data cable for GigaBit Applications, single-ended, molded with RJ45 connector	Field attachable connector, M12 male connector with threaded joint, shieldable, assembling with insulation displacement connection, 8 poles X coded	Receptacle connectors, M12 female connector for front mounting, assembling with Printed contacts, 8 poles X coded
Technical Data				
<b>Operating Temperature</b>	-30°C to +90°C	-20°C to +75°C	-25°C to +85°C	-25°C to +85°C
<b>Housing/Molded Body</b>	TPU	TPU	Zinc diecasting, nickel-plated	CuZn, nickel-plated
<b>Insert</b>	PA	PC	PA	PA
<b>Contact</b>	CuZn, gold-plated	CuZn, gold-plated	CuZn, gold-plated	CuZn, gold-plated
<b>Receptacle Shell/Knurled Screw/-nut/Hexagon Screw/-nut/Sleeve</b>	CuZn, nickel-plated	CuZn, nickel-plated	CuZn, zinc diecasting, nickel-plated	CuZn, nickel-plated
<b>O-Ring</b>	-	-	-	FPM
Mechanical Data				
<b>Protection Class</b>	IP67 (Only in locked position with its proper counterparts.)	IP20	IP67 (Only in locked position with its proper counterparts.)	IP67 (Only in locked position with its proper counterparts.)
<b>Mode of Connection</b>	-	-	Insulation displacement connection technology	Printed contacts
Electrical Data				
<b>Nominal Current at 40°C</b>	0.5 A	1 A	0.5 A	0.5 A
<b>Nominal Voltage</b>	48 V	50 V DC	48 V	48 V
<b>Insulation Resistance</b>	> 109 Ω	> 109 Ω	> 109 Ω	> 109 Ω
<b>Pollution Degree</b>	3	3	3	3

Product Description		
Type	0985 478 601/* M	0985 478 603/* M
<b>Description</b>	Cord sets, double-ended, M12-M12, Industrial Ethernet Data cable for GigaBit Applications, molded with M12 male connectors, 8 poles X coded	Cord sets, double-ended, RJ45-RJ45, Industrial Ethernet Data cable for GigaBit Applications, molded with RJ45 connectors
<b>Technical Information</b>	see 0985 478 600/* M	see 0985 478 602/* M

Technical modifications reserved.

