



# ETHERLINE® GUARD

Monitoring device for predictive maintenance

Our Cables usually last for many years, but in highly dynamic, demanding movements with high speeds and strong torsion, it is advantageous and cost-saving if the connection systems are monitored to avoid unforeseen downtimes and thus a negative impact on productivity. LAPP's innovative solution is **ETHERLINE® GUARD**. This is a stationary monitoring device that evaluates the current performance of a data cable and indicates it as a percentage.



## Your benefits

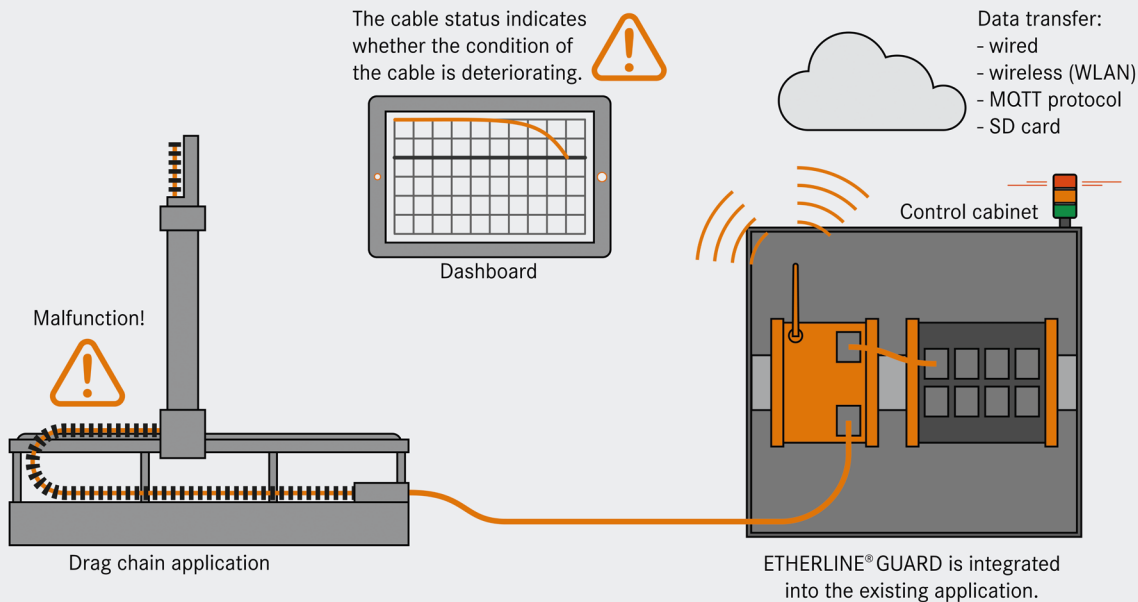
- Increase availability due to plannable downtimes. Thus, reduced maintenance costs.
- Simple set-up with automated parameterization
- Integration into the existing network structure
- Reliable communication with MQTT protocol



Learn more:  
[www.lappkabel.com/etherlineguard](http://www.lappkabel.com/etherlineguard)



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## ETHERLINE® GUARD

CE UL in preparation



### Technical product features

- Suitable for data cable according to transmission standard 100BASE-TX (with 100 Mbit/s) according to IEEE 802.3
- Ethernet Copper (twisted) cables with RJ45 connection
- Protection class IP 20
- Space-saving thanks to uniquely compact design

| Part number | Product description      | Port count       | PU |
|-------------|--------------------------|------------------|----|
| 21700150    | ETHERLINE® GUARD PM03T   | 3 x RJ 45        | 1  |
| 21700151    | ETHERLINE® GUARD PM02TWA | 2 x RJ 45 + WIFI | 1  |

LAPP recommends ETHERLINE® GUARD especially for data cable according to the transmission standard 100BASE-TX (with 100 Mbit/s) according to IEEE 802.3. The following products are suitable for optimal use:

|  | Product                      | Technical characteristics  |
|--|------------------------------|--|
|  | ETHERLINE® Cat.5e FD         | Cat.5e for highly flexible use in drag chain applications, 2 or 4 pairs, PUR, UL approval                            |
|  | ETHERLINE® EC FD Cat.5e      | Cat.5e for highly flexible use in drag chain applications, PUR, EtherCAT   |
|  | ETHERLINE® TORSION Cat. 5    | Cat.5 for torsion applications, 2 pairs, PUR, PROFINET, UL approval  |
|  | ETHERLINE® PN Cat.5 FD       | Cat.5 for highly flexible use in drag chain applications, PROFINET, Type C, UL approval                              |
|  | ETHERLINE® FESTOON PN Cat.5e | Cat.5e for highly flexible use in festoon applications, PROFINET, Type C, UL approval                                |
|  | ETHERLINE® ROBOT PN          | Cat.5e for highly flexible use in robot applications, PROFINET, Type R, UL approval                                  |
|  | EPIC® DATA RJ45              | Cat.6a, IP 20, suitable for up to 10 Gbit/s, field mountable   |
|  | ETHERLINE® EC FD Cat.5e      | Cat.5, suitable for drag chains, PUR, 2 pairs, assembled on one or both sides  |
|  | ETHERLINE® EC FD Cat.5       | Cat.5, suitable for drag chains, PROFINET, Type C, D-code, PUR, UL approval; 2 pairs, assembled on one or both sides |