ETHERLINE® GUARD

Monitoring device for predictive maintenance

Cable monitoring made by LAPP

The stationary monitoring device for data cables

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 the **ETHERLINE® GUARD**. This is a stationary monitoring device that evaluates the current performance of a data line and indicates it as a percentage.
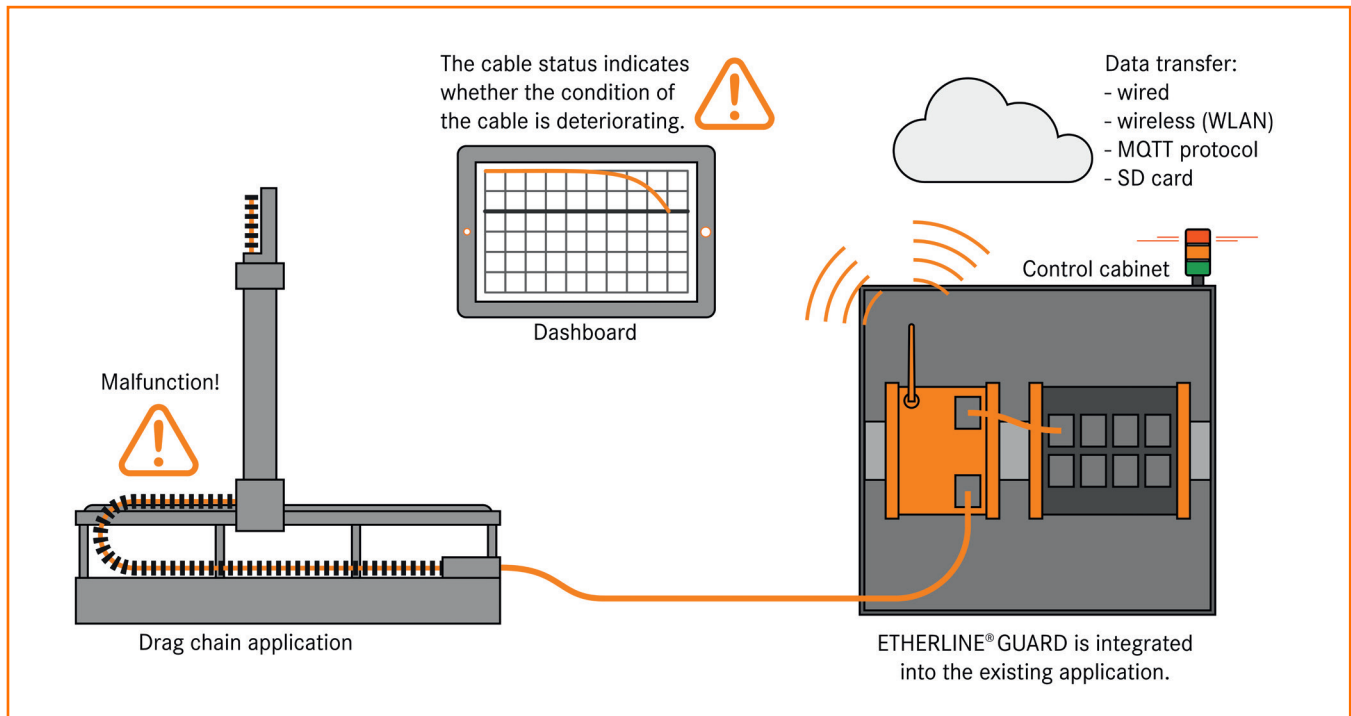
The basis for this is data determined from the physical properties of the data transmission. The real-time status display makes it possible to recognise the wear limit of a line and to plan the optimal replacement time in advance. LAPP recommends the **ETHERLINE® GUARD** especially for data cables according to the transmission standard 100BASE-TX (with 100 Mbit/s) according to IEEE 802.3, but also for EtherCAT, EtherNET/IP and 2-pair PROFINET applications, such as the ETHERLINE® TORSION Cat. 5 or the ETHERLINE® PN Cat. 5 FD. These cables are often used in drag chains or torsionally stressed cable guides such as those found in robot arms.

Benefit

- 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

The cable status indicates whether the condition of the cable is deteriorating.

Dashboard

Data transfer:
- wired
- wireless (WLAN)
- MQTT protocol
- SD card

Control cabinet

Malfunction!

Drag chain application

ETHERLINE® GUARD is integrated into the existing application.

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

ÖLFLEX®
Power and control cables

UNITRONIC®
Data communication systems

ETHERLINE®
Data communication systems
for Ethernet technology

HITRONIC®
Optical transmission systems

EPIC®
Industrial connectors

SKINTOP®
Cable glands

SILVYN®
Protective cable conduit systems
and cable carrier systems

FLEXIMARK®
Marking systems