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.
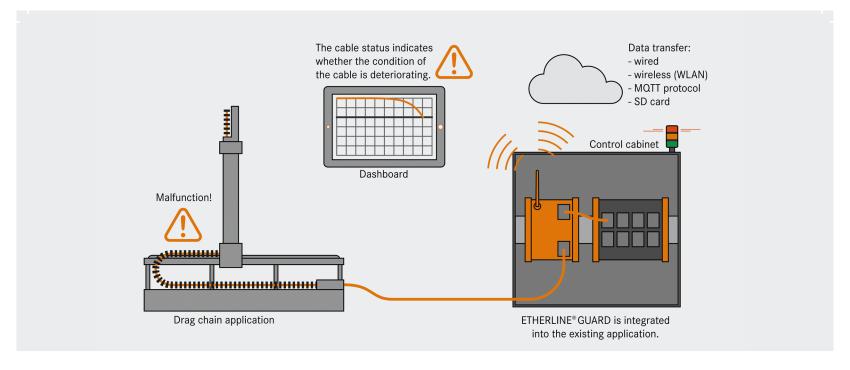

Your benefits

- 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

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

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

Dashboard

Control cabinet

Malfunction!

Drag chain application

ETHERLINE® GUARD is integrated into the existing application.

ETHERLINE® GUARD

CE ⓊL 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.6$_A$, 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	