4 pair cable   Data communication systems for Ethernet technology

ETHERLINE® 4 pair: CAT.5e; stationary
Industrial Ethernet cable for stationary applications

LAPP KABEL STUTTGART ETHERLINE® CAT.5e

ETHERLINE® 4 pair cables for stationary applications are suitable for CAT.5e data transmission. Designed with a foil and braid shield, the cable is protected against EMI and can be used in areas where reliable data transmission is key. The cable is available with a PUR or halogen-free jacket, or with a double halogen-free inner and outer jacket.

Construction

Conductors: solid bare copper

Pairs: 4 pairs twisted together

Insulation: foam skin

Shielding: foil and tinned copper braid

Jacket: polyurethane or halogen-free; teal • 2170298: halogen-free inner & outer jackets

Recommended applications

Stationary applications; industrial field and cell level networking; PLCs, sensors, and other network devices; dry and damp rooms

Application advantage

• Suitable for EtherCAT® & EtherNet/IP applications

• Excellent EMI protection

• Flame retardant

• Suitable for PoE per IEEE 802.3at

Approvals

c UL us   RoHS ✓   EtherCAT® Technology Group   EtherNet/IP™

Cable attributes   page 648
See attribute list by part number on page 234

Complete the installation
SKINTOP® MS-SC page 522   RJ45 connectors page 257

ÖLFLEX® CONNECT solution
ÖLFLEX® CONNECT CABLES page 605

Technical data

Minimum bend radius:
- for stationary use: 8 x cable diameter

Temperature range: -30°C to +80°C

Nominal voltage: (not for power applications)
- 2170297: 1000V
- 2170296, 2170298: 125V

Test voltage: 1000V

Characteristic impedance: 100Ω ± 15Ω

Color code:
white/blue & blue,
white/orange & orange,
white/green & green,
white/brown & brown

Approvals:
UL: AWM 21576 (2170297)
Canada: cRU AWM I/II A/B FT2 (2170297)
Additional: RoHS

Part number	Construction	Stranding	Jacket material	Jacket color	Approvals	Fast connect	PoE	Nominal outer diameter in	mm	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
CAT.5e											
2170296	24 AWG/4pr	solid	halogen-free	teal	—	no	yes	0.248	6.3	36	53112210
2170297	24 AWG/4pr	solid	PUR	teal	UL/CSA AWM, 1000V	no	yes	0.248	6.3	42	53112210
2170298	24 AWG/4pr	solid	halogen-free*	teal	—	no	yes	0.296	7.5	54	53112220

* Inner and outer jacket