

ETHERLINE® 2 pair: CAT.5/CAT.5e; continuous flex

Industrial Ethernet cable for continuous flex applications

LAPP KABEL STUTTGART ETHERLINE® CAT.5

LAPP KABEL STUTTGART ETHERLINE® CAT.5e

ETHERLINE® CAT.5/5e cables are suitable for cable track applications and other moving machinery parts. The special cable design allows easy cable routing, yet provides excellent protection from EMI. The polyurethane outer jacket is halogen-free and resistant against oil, abrasion, and UV light.

Recommended applications

Continuous flex applications; cable tracks; cordsets; wiring of network devices; dry or damp environments

Approvals



Construction

Conductors: stranded bare copper • 2170894: tinned copper

Pairs: 2 twisted pairs or star quad

Insulation: polyolefin • 2170894: polyethylene

Shielding: copper braid • 2170894: foil and copper braid

Jacket: polyurethane; green or teal

Application advantage

- Suitable for EtherCAT® & EtherNet/IP applications
- Easy cable routing
- Protection from EMI
- Fast connect style allows for quick installation
- Suitable for PoE per IEEE 802.3at (see table below)

Cable attributes

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See attribute list by part number on page 232

Complete the installation



Fast connect stripping tool
page 262



RJ45 connectors
page 257

ÖLFLEX® CONNECT solution



Industrial Ethernet cordsets
page 620

Technical data



Minimum bend radius:

- for stationary use: 8 x cable diameter
- for continuous flexing: 15 x cable diameter



Temperature range:

- 2170894 & 2170289:
 - for continuous flexing: -20°C to +60°C
 - for stationary use: -30°C to +70°C
- 2170289NA:
 - for continuous flexing: -5°C to +50°C
 - for stationary use: -40°C to +70°C



Nominal voltage:

- (not for power applications)
- 2170894: 100V
- 2170289 & 2170289NA: 1000V



Characteristic impedance: 100Ω ± 15Ω



Color code:

- 2170894: white, yellow, blue, orange
- 2170289: white/orange & orange; white/green & green
- 2170289NA: white/orange & orange; white/blue & blue



Approvals:

UL: CMX (2170894)
AWM 21576 (2170289, 2170289NA)
Canada: c(UL) CMX (2170894)
cRU AWM I/II A/B FT2 (2170289, 2170289NA)
Additional: RoHS

Part number	Construction	Stranding	Jacket material	Jacket color	Approvals	Fast connect	PoE	Nominal outer diameter in	Nominal outer diameter mm	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
CAT.5											
2170894	22 AWG/2pr	7 wire	PUR	green	PROFINET®, UL/CSA CMX	yes	yes	0.256	6.5	42	53112210
CAT.5e											
2170289*	26 AWG/2pr	19 wire	PUR	teal	UL/CSA AWM, 1000V	no	no	0.240	6.1	32	53112210
2170289NA*	26 AWG/2pr	19 wire	PUR	teal	UL/CSA AWM, 1000V	no	no	0.228	5.8	32	53112210

* Max cable run: 196 ft (60 m)

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If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.