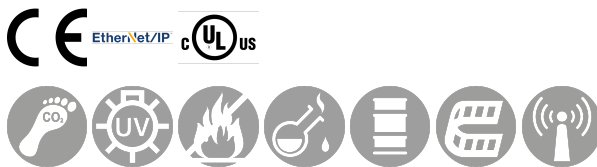
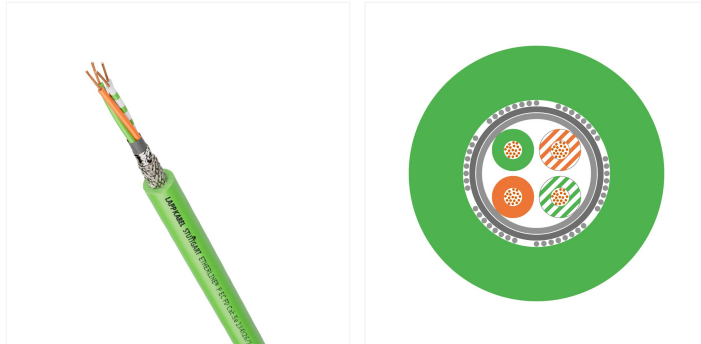


ETHERLINE® P EC FD Cat.5e

Article No.: 2170433

Ethernet cable; Cable chain, Flexible; EtherCAT, ETHERNET/IP; Cat.5e; SF/UTP; PUR; Halogenfree; green



Details

Benefits

- Fast information exchange through Ethernet technology.
- Cat. 5e performance up to 100 Mbit/s.
- For transmission of analog and digital signals in the frequency range up to 100 MHz.
- The PUR outer jacket is resistant to mineral oil-based lubricants and highly resistant to chemicals.
- High resistance to electromagnetic interference thanks to star quad design as well as double shielding made of aluminum-laminated foil and high degree of copper shielding braiding (SF/UTP).
- UL certification according to technical data enables the product to be used on the North American market.

Application

- Cable design allows highly flexible, continuously flexing use in moving machine parts and in the cable chain.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- Also suitable for EtherCAT and EtherNET/IP applications.
- Suitable for patch cable assembly up to a cable length of 60 m (196.86 ft).

- The PUR outer jacket is resistant to mineral oil-based lubricants and highly resistant to chemicals.
- Flexible use at temperatures down to -30°C.

Notes

Unless specified otherwise, the product values shown are rated values at room temperature. You can receive additional values, such as tolerances, upon request if they are available and have been released for publication.

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

The absence of PWIS raw materials does not protect against the potential risk of contamination with substances that interfere with the paint wetting during subsequent handling of the product(s) during transport, storage or further processing after delivery.

If applicable, the prices are solid metal prices without additional charges and VAT. Sales only to business customers.

Remarks

Technical Data

General information

Brand	ETHERLINE®
Product type	Ethernet cable
Copper index	134.4 lb/10000 ft
valid Fieldbus or Ethernet System	EtherCAT ETHERNET/IP

Electrical parameters

Nominal voltage	48 V AC rms according to IEC
Rated voltage conductor to conductor	300 V AC rms according to UL 50 V AC rms according to IEC
Maximum operating voltage (not for power transmission)	125 V
Test voltage conductor/conductor	1.5 kV
Test voltage conductor/shielding	1.5 kV
Supports Power over Ethernet	IEEE 802.3af (PoE) IEEE 802.3at (PoE+)

Loop resistance at 20°C	280 Ω/km
Nominal characteristic impedance	100 Ω
Possible data transmission rates	100 Mbit/s
Nominal velocity of propagation	0.67 c

Product design

Conductor count/size	1x4x26/19AWG
Nominal cross section conductor (mm ²)	0.14 mm ²
Nominal cross section conductor (AWG)	26 AWG
Leading conductor cross-section	AWG
Wire count	19
Conductor design	19-wire
Including protective ground	No
Number of cores	4
Number of pairs	2
Stranding type	Star quad
Additional stranding element	Central Dummy Wire
Shielded	Yes
Type of overall shielding	Aluminum-laminated plastic foil Tin-plated copper braiding
Abbreviation shielding	SF/UTP
Optical degree of coverage of the stranded shielding, overall shield	85 %
Nominal conductor diameter	0.041 in
Min. outer diameter	0.177 in
Nominal outer diameter	0.189 in
Max. outer diameter	0.201 in
Cable form	Round
Core insulation base material	Polypropylene
Conductor insulation basic material, short form	PP
Basic material of outer jacket	Polyurethane
Base material of outer sheath, shortname	PUR
Outer jacket color	green

Colour outer sheath RAL code	RAL 6018
Core identification	Colors

Product features

Application area	Cable chain Flexible
For permanent bending	Yes
For torsional load	No
Windable	No
Minimum bending radius, stationary	4 x outer diameter
Minimum bending radius in inch, fixed installation	0.803 in
Minimum bending radius, dynamic continuously flexing	16 x outer diameter
Minimum bending radius in inch, dynamic continuously flexing	3.213 in
Temperature, fixed installation	-40 °C to 80 °C max. conductor temperature
Temperature, occasionally moved	-30 °C to 50 °C max. conductor temperature
Installation temperature min.	-40 °C
Max. assembly temperature	80 °C
Flame-retardant	Yes
Flame retardance according to	UL VW-1 IEC 60332-1-2
UV-resistant	Yes
Halogenfree	Yes
Halogen-free according to	VDE 0472-815
Oil resistant	Yes
Oil resistance according to	DIN EN 60811-2-1
PWIS-free	Yes
PWIS-free according to	VDMA 24364-B2-L
Ethernet cable category	Cat.5e
Fast Connect (FC) cable	No

Certifications and standards

CE marking	Yes
EAC certified	Yes
EAC certification number	EAЭC N RU Д-DE.АЮ064.В.00130/20
UL recognized	No
UL listed	Yes
cUR recognized	No
cUL listed	Yes
cUL certification	cUL CMX (75°C) according to CSA C22.2 No. 214 (e-file number: E236660)
CSA certified	No
VDE certified	No
Resistance to flame propagation tested according to UN/ECE-R118	Yes

ETHERLINE® EC FD Cat.5e

Article No.	Name	Conductor count/size	Nominal outer diameter	Copper index
2170433	ETHERLINE® P EC FD Cat.5e	1x4x26/19AWG	0.189 in	134.4 lb/10000 ft

V1.1