

ETHERLINE® 2 pair: CAT.5/CAT.5e; stationary

Industrial Ethernet cable for stationary applications



ETHERLINE® CAT.5/5e cables provide reliable network communication in demanding industrial environments. The high quality foil and braid shield assure protection from EMI. Cables meet the transmission requirements for Category 5 or 5e.

Recommended applications

Stationary applications; industrial field and cell level networking; PLCs, sensors, and other network devices; dry and damp rooms; transmission rates up to 10/100 Mbit/sec

Approvals



Construction

Conductors: solid bare copper

Pairs: 2 twisted pairs or star quad

Insulation: polyethylene

Shielding: foil and copper braid

Jacket: PVC; green or black • polyurethane or halogen-free; teal


Application advantage

- Double screening ensures high transmission reliability in areas with EMI
- Flame retardant
- Highly oil- and abrasion-resistant PUR jacket
- Conforms to PROFINET® standard
- Suitable for EtherCAT® & EtherNet/IP applications
- Fast connect style allows for quick installation
- Suitable for PoE per IEEE 802.3at


Cable attributes page 648

See attribute list by part number on page 232

Complete the installation



Fast connect stripping tool
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RJ45 connectors
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ÖLFLEX® CONNECT solution



ÖLFLEX® CONNECT CABLES
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Technical data

Minimum bend radius:

- for stationary use:
- 2170893: 10 x cable diameter
- 2170891: 3 x cable diameter
- 2170494: 4 x cable diameter
- 2170280, 2170281: 8 x cable diameter

Characteristic impedance: 100Ω ± 15Ω

Color code:

- 2170893, 2170891, 2170494: white, yellow, blue, orange
- 2170280, 2170281: white/orange & orange, white/green & green

Temperature range:

- 2170893, 2170281: -40°C to +80°C
- 2170891: -40°C to +75°C
- 2170494: -25°C to +80°C
- 2170280: -30°C to +80°C

Approvals:

- UL: AWM 21576 (2170281)
AWM 21694 (2170893)
PLTC (2170893)
CMG (2170893, 2170494)
CMX (2170891)
- Canada: c(UL) CMG (2170893, 2170494)
c(UL) CMX (2170891)
cRU AWM I/II A/B FT2 (2170281)
- Additional: RoHS

Nominal voltage:

- (not for power applications)
- 2170893: 600V (UL AWM)
- 2170281: 1000V
- all other P/Ns: 125V

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											
2170893	22 AWG/2pr	solid	PVC	green	PROFINET®, UL/CSA CMG, UL AWM, 600V	yes	yes	0.256	6.5	47	53112210
CAT.5e											
2170891	22 AWG/2pr	solid	PVC	green	PROFINET®, UL/CSA CMX	no	yes	0.252	6.4	38	53112210
2170494	22 AWG/2pr	solid	PVC*	black	PROFINET®, UL/CSA CMG	no	yes	0.307	7.8	42	53112220
2170280	24 AWG/2pr	solid	halogen-free	teal	–	no	yes	0.229	5.8	30	53112210
2170281	24 AWG/2pr	solid	PUR	teal	UL/CSA AWM, 1000V	no	yes	0.229	5.8	36	53112210

* Inner and outer jacket

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