

# 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:** Green or black PVC; teal polyurethane or halogen-free

### 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
- Fast connect style allows for quick installation

### Lapp Systems Advantage

For Ethernet cordsets, see page 629



Cable Attributes			
See attribute list by part number on page 240			
OIL	FLAME	MOTION	MECHANICAL

**Similar Cables**

- ETHERLINE® 2 Pair: CAT.5/5e Flexible & Continuous Flex

**Complete the Installation**

	RJ45 Connectors: page 256		Fast Connect Stripping Tool: page 259
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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	Size / Pairs	Stranding	Jacket Material	Jacket Color	Approvals	Fast Connect	Nominal Outer Diameter (inches)	Nominal Outer Diameter (mm)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
<b>CAT.5 Cable</b>										
2170893	22 AWG/2pr	Solid	PVC	Green	PROFINET, UL/CSA CMG, UL AWM, 600V	Yes	0.256	6.5	47	53112210
<b>CAT.5e Cables</b>										
2170891	22 AWG/2pr	Solid	PVC	Green	PROFINET, UL/CSA CMX	No	0.252	6.4	38	53112210
2170494	22 AWG/2pr	Solid	PVC*	Black	PROFINET, UL/CSA CMG	No	0.307	7.8	42	53112220
2170280	24 AWG/2pr	Solid	Halogen-free	Teal	—	No	0.229	5.8	30	53112210
2170281	24 AWG/2pr	Solid	PUR	Teal	UL/CSA AWM	No	0.229	5.8	36	53112210

\* Inner and outer jacket

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available, please see our SKINTOP® Section. Photographs are not to scale and are not true representations of the products in question. For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.