

# 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	Complete the installation	ÖLFLEX® CONNECT solution
See attribute list by part number on page 232		 Fast connect stripping tool page 262	 RJ45 connectors page 257
			 ÖLFLEX® CONNECT CABLES page 605

### Technical data

<p><b>Minimum bend radius:</b></p> <ul style="list-style-type: none"> <li>- for stationary use:</li> <li>- 2170893: 10 x cable diameter</li> <li>- 2170891: 3 x cable diameter</li> <li>- 2170494: 4 x cable diameter</li> <li>- 2170280, 2170281: 8 x cable diameter</li> </ul> <p><b>Temperature range:</b></p> <ul style="list-style-type: none"> <li>- 2170893, 2170281: -40°C to +80°C</li> <li>- 2170891: -40°C to +75°C</li> <li>- 2170494: -25°C to +80°C</li> <li>- 2170280: -30°C to +80°C</li> </ul> <p><b>Nominal voltage:</b> (not for power applications)</p> <ul style="list-style-type: none"> <li>- 2170893: 600V (UL AWM)</li> <li>- 2170281: 1000V</li> <li>- all other P/Ns: 125V</li> </ul>	<p><b>Characteristic impedance:</b> 100Ω ± 15Ω</p> <p><b>Color code:</b></p> <ul style="list-style-type: none"> <li>- 2170893, 2170891, 2170494: white, yellow, blue, orange</li> <li>- 2170280, 2170281: white/orange &amp; orange, white/green &amp; green</li> </ul> <p><b>Approvals:</b></p> <p>UL: AWM 21576 (2170281)                  AWM 21694 (2170893)                  PLTC (2170893)                  CMG (2170893, 2170494)                  CMX (2170891)</p> <p>Canada: c(UL) CMG (2170893, 2170494)                  c(UL) CMX (2170891)                  cRU AWM I/II A/B FT2 (2170281)</p> <p>Additional: RoHS</p>
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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
<b>CAT.5</b>											
2170893	22 AWG/2pr	solid	PVC	green	PROFINET®, UL/CSA CMG, UL AWM, 600V	yes	yes	0.256	6.5	47	53112210
<b>CAT.5e</b>											
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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