3 ETHERLINE®

Data communication systems for Ethernet technology

Our ETHERLINE® data products open up a secure, fast, and reliable path to the future of Ethernet applications like PROFINET®. The systems are made up of durable, robust cable and connection components for passive and active network technology, and deliver an effective solution for almost any application, particularly in an industrial environment.

Application range

- Industry and building networks
- Industrial machinery and plant engineering
- Automation technology
- Control engineering

ETHERLINE®

Data communication systems for Ethernet technology

2 pair cable

4 pair cable

ETHERLINE®

Data communication systems for Ethernet technology

Quick select chart & cable attributes

2 pair cable

Application	Product	Page	Category	Part number	Jacket material	Size	Outer diameter in	
Stationary	ETHERLINE® CAT.5/5e	236	CAT.5	2170893	PVC	22 AWG	0.256	
			CAT.5e	2170891	PVC	22 AWG	0.252	
				2170933	PVC/PVC	22 AWG	0.307	
				2170280	halogen-free	24 AWG	0.229	
				2170281	PUR	24 AWG	0.229	
	ETHERLINE® ARMORED	241	CAT.5	2170496	PVC/PE	22 AWG	0.366	
Flexible	ETHERLINE® CAT.5/5e	237	CAT.5	2170886	PVC	22 AWG	0.256	
			CAT.5e	2170901	PVC	22 AWG	0.244	
				2170283	halogen-free	26 AWG	0.213	
				2170284	PUR	26 AWG	0.228	
	ETHERLINE® 105C Plus	240	CAT.5e	2170636	TPE	22 AWG	0.244	
	ETHERLINE® HYBRID	242	CAT.5	2170887	halogen-free	22 AWG + 16 AWG/4c	0.406	
	ETHERLINE® ROBUST	255	CAT.5e	2170451	TPE	22 AWG	0.268	
	ETHERLINE® ROBUST FR	256	CAT.5e	2170454	TPE	22 AWG	0.268	
Continuous flex	ETHERLINE® CAT.5/5e	238	CAT.5	2170894	PUR	22 AWG	0.256	
			CAT.5e	2170289	PUR	26 AWG	0.240	
				2170289NA	PUR	26 AWG	0.228	
Torsion	ETHERLINE® TORSION	239	CAT.5	2170888	PUR	22 AWG	0.256	

	Approvals	Special features	Cable attributes, see page 648			
			oil resistance	flame resistance	motion type	mechanical protection
	PROFINET®, EtherCAT®, UL AWM, UL/CSA CMG	fast connect, 600V	OR-00	FR-03	FL-01	MP-01
	PROFINET®, EtherCAT®, UL/CSA CMX	–	OR-00	FR-02	FL-01	MP-01
	PROFINET®, EtherCAT®, UL/CSA CMG	for outdoor use and direct burial	OR-00	FR-03	FL-01	MP-01
	–	–	OR-00	FR-01	FL-01	MP-01
	UL/CSA AWM	1000V	OR-04	FR-01	FL-01	MP-05
	PROFINET®, EtherCAT®	steel armored, for outdoor use and direct burial	OR-00	FR-00	FL-00	MP-01
	PROFINET®, EtherCAT®, UL AWM, UL/CSA CMG, ECOLAB	fast connect, 600V	OR-00	FR-03	FL-02	MP-01
	PROFINET®, EtherCAT®,	–	OR-00	FR-01	FL-02	MP-01
	UL/CSA AWM	–	OR-00	FR-01	FL-02	MP-01
	UL/CSA AWM	1000V	OR-04	FR-01	FL-02	MP-05
	PROFINET®, EtherCAT®,	high temperature (105°C)	OR-04	FR-00	FL-02	MP-05
	PROFINET®, EtherCAT®, UL AWM	hybrid cable for power with Ethernet applications	OR-00	FR-01	FL-02	MP-01
	PROFINET®	UV & chemical resistance	OR-01	FR-01	FL-02	MP-01
	PROFINET®, EtherCAT®	UV & chemical resistance	OR-01	FR-02	FL-02	MP-01
	PROFINET®, EtherCAT®, UL/CSA CMX	fast connect	OR-04	FR-02	CF-01	MP-05
	UL/CSA AWM	tested for 2.5 million flex cycles; 1000V	OR-04	FR-00	CF-02	MP-05
	UL/CSA AWM	tested for 2.5 million flex cycles; 1000V	OR-04	FR-00	CF-02	MP-05
	PROFINET®, EtherCAT®, UL AWM	–	OR-04	FR-01	FL-02*	MP-05

* Torsion ± 180°/m

Quick select chart & cable attributes

4 pair cable

Application	Product	Page	Category	Part number	Jacket material	Size	Outer diameter in	
Stationary	ETHERLINE® CAT.5e	243	CAT.5e	2170296	halogen-free	24 AWG	0.248	
				2170297	PUR	24 AWG	0.248	
				2170298	halogen-free + inner jacket	24 AWG	0.296	
	ETHERLINE® CAT.6A/CAT.7	247	CAT.6A	2170464	PVC	22 AWG	0.343	
				2170465	PUR	22 AWG	0.343	
				2170466	halogen-free	22 AWG	0.343	
			CAT.7	2170474	PVC	22 AWG	0.343	
				2170475	PUR	22 AWG	0.343	
				2170476	halogen-free	22 AWG	0.343	
Flexible	ETHERLINE® CAT.5e	244	CAT.5e	2170299	halogen-free	26 AWG	0.240	
				2170300	PUR	26 AWG	0.240	
	ETHERLINE® HEAT 6722	252	CAT.5e	2170850	PUR	24 AWG	0.303	
			CAT.6A	2170581	PUR	24 AWG	0.319	
			CAT.7	2170582	PUR	24 AWG	0.319	
	ETHERLINE® TRAY	253	CAT.5e	2170450	PVC	22 AWG	0.380	
	ETHERLINE® FIRE PH120	254	CAT.5e	2170905	halogen-free FRNC	23 AWG	0.327	
	ETHERLINE® ROBUST	255	CAT.7	2170452	TPE	23 AWG	0.355	
				2170453	TPE	26 AWG	0.256	
	ETHERLINE® ROBUST FR	256	CAT.7	2170455	TPE	24 AWG	0.355	
				2170456	TPE	26 AWG	0.256	
	ETHERLINE® CAT.7	250	CAT.7	2170934	PUR	26 AWG	0.250	
Continuous flex	ETHERLINE® CAT.5e	245	CAT.5e	2170489	PUR	26 AWG	0.248	
	ETHERLINE® CAT.6	246	CAT.6	2170488	PUR	26 AWG	0.307	
	ETHERLINE® CAT.6A	248	CAT.6A	2170484	PUR	24 AWG	0.355	
				2170485	PVC	24 AWG	0.355	
Torsion	ETHERLINE® TORSION	249	CAT.6A	2170482	PVC	24 AWG	0.355	
				2170483	PUR	24 AWG	0.355	

	Approvals	Special features	Cable attributes, see page 648			
			oil resistance	flame resistance	motion type	mechanical protection
	–	–	OR-00	FR-01	FL-01	MP-01
	UL/CSA AWM	1000V	OR-04	FR-01	FL-01	MP-05
	–	halogen-free inner jacket for extra protection	OR-00	FR-01	FL-01	MP-01
	–	PiMF construction: pairs are individually shielded with foil tape	OR-00	FR-03	FL-01	MP-01
			OR-04	FR-01	FL-01	MP-05
			OR-00	FR-03	FL-01	MP-01
			OR-00	FR-03	FL-01	MP-01
			OR-04	FR-01	FL-01	MP-05
			OR-00	FR-03	FL-01	MP-01
	–	–	OR-00	FR-01	FL-02	MP-01
	UL/CSA AWM	1000V	OR-04	FR-01	FL-02	MP-05
	PROFINET®	high temperature (105 °C)	OR-04	FR-01	FL-02	MP-05
	EtherCAT®, UL CMR, UL AWM	600V, PLTC	OR-02	FR-05	FL-02	MP-01
	PROFINET®	–	OR-00	FR-03	FL-01	MP-01
	PROFINET®	UV & chemical resistance	OR-01	FR-01	FL-02	MP-01
	–					
	PROFINET®, EtherCAT®	UV & chemical resistance	OR-01	FR-02	FL-02	MP-01
	–					
	cRUus	–	OR-04	FR-01	FL-02	MP-05
	UL/CSA AWM	tested for 2.5 million flex cycles, 1000V	OR-04	FR-00	CF-02	MP-05
	UL/CSA CMX	–	OR-04	FR-02	CF-01	MP-05
	PROFINET®, UL/CSA AWM, CMX	1000V	OR-04	FR-02	CF-01	MP-05
	PROFINET®, UL/CSA CMG	–	OR-00	FR-03	CF-01	MP-01
	PROFINET®, UL/CSA CMG	–	OR-00	FR-03	FL-02*	MP-01
	PROFINET®, UL/CSA AWM, CMX	1000V	OR-04	FR-02	FL-02*	MP-05

* Torsion ± 180°/m

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 page 262

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ÖLFLEX® CONNECT solution

ÖLFLEX® CONNECT CABLES page 605

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

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

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

Characteristic impedance: 100Ω ± 15Ω

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

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

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
2170933	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

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

Industrial Ethernet cable for flexible applications

Flexible ETHERLINE® CAT.5/5e cables are constructed with a high-quality foil and copper braid shield for reliable data transfer in areas where EMI is pervasive. The different jacket materials provide excellent protection against oil, flame, or sunlight. A Low Smoke Zero Halogen (LSZH) jacketed cable is available for applications where human safety and damage to electronic components are a concern.

Construction

Conductors: stranded bare copper • 2170886: stranded tinned copper

Pairs: 2 twisted pairs or star quad

Insulation: polyethylene • 2170901: polyolefin

Shielding: foil and copper braid

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

Recommended applications

Flexible applications; wiring of industrial network devices, sensors, actuators, and cordsets

Application advantage

- Excellent EMI protection
- Oil-, flame- & UV-resistant 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** (see table below)

Approvals

c UL us c UL us RoHS PROFINET EtherCAT Technology Group EtherNet/IP ECOLAB

Cable attributes page 648

See attribute list by part number on page 232

Complete the installation


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ÖLFLEX® CONNECT solution


Industrial Ethernet cordsets page 620

Technical data

Minimum bend radius:
- for flexible use: 15 x cable diameter

Temperature range:
- 2170886: -20°C to +60°C
- 2170901: -10°C to +70°C
- 2170283, 2170284: -5°C to +60°C

Nominal voltage: (not for power applications)
- 2170886: 600V (UL AWM)
- 2170284: 1000V
- all other P/Ns: 125V

Characteristic impedance: 100Ω ± 15Ω

Color code:
- 2170886, 2170901: white, yellow, blue, orange
- 2170283, 2170284: white/orange & orange; white/green & green

Approvals:
UL: AWM 21576 (2170284), AWM 21694 (2170886), PLTC (2170886), CMG (2170886)
**NEC: Class 1 Division 2 per NEC Article 501
Canada: c(UL) CMG (2170886), cRU AWM I/II A/B FT2 (2170284)
Additional: ECOLAB (2170886), 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											
2170886**	22 AWG/2pr	7 wire	PVC	green	PROFINET®, UL/CSA CMG, UL AWM, 600V, ECOLAB	yes	yes	0.256	6.5	45	53112210
CAT.5e											
2170901	22 AWG/2pr	7 wire	PVC	black	PROFINET®	no	yes	0.244	6.2	40	53112210
2170283*	26 AWG/2pr	7 wire	halogen-free	teal	–	no	no	0.213	5.4	29	53112210
2170284*	26 AWG/2pr	7 wire	PUR	teal	UL/CSA AWM, 1000V	no	no	0.228	5.8	30	53112210

* Max cable run: 196 ft (60 m)

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Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section.
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.

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

Industrial Ethernet cable for continuous flex applications

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.

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

Recommended applications

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

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)

Approvals

Continuous Flex Test Method Verified

Cable attributes page 648

See attribute list by part number on page 232*

Complete the installation

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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
*UL Verified ID A522492: Continuous Flex Test Method Verified

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)

ETHERLINE® 2 pair: CAT.5 TORSION

Industrial Ethernet cable suitable for torsion stress

ETHERLINE® TORSION is a 2 pair industrial Ethernet cable designed for high-torsion stress applications. It is tested with more than 1 million bending cycles and a right/left movement of 180° per meter.

Construction

Conductors: stranded tinned copper

Pairs: star quad

Insulation: foamed polyethylene

Shielding: tinned copper braid; non-woven wrap

Jacket: halogen-free polyurethane; green

Recommended applications

Stationary, flexible, continuous flex, and torsion applications; recommended for drip loop applications, e.g., in wind turbines

Application advantage

- Suitable for EtherCAT® & EtherNet/IP applications
- Suitable for high torsion stress
- High-quality shield provides excellent EMI protection
- Highly abrasion-resistant PUR jacket
- Halogen-free and flame retardant
- **Suitable for PoE per IEEE 802.3at**

Approvals

Cable attributes			page 648
OIL	OR-04	FLAME	FR-01
MOTION	FL-02*	MECH.	MP-05

* Torsion ± 180°/m

Complete the installation			
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ÖLFLEX® CONNECT solution	
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Technical data

Minimum bend radius:	5 x cable diameter	**Characteristic impedance:**	100Ω ± 15Ω
Temperature range:	-40°C to +80°C	**Color code:**	white, yellow, blue, orange
Nominal voltage:	100V (not for power applications)	**Approvals:**	UL: AWM 21161 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											
2170888	22 AWG/2pr	19 wire	PUR	green	PROFINET®, UL AWM	no	yes	0.256	6.5	35	53112210

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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.

ETHERLINE® 2 pair: CAT.5e 105C Plus; flexible

Industrial Ethernet cable for high temperature flexible applications

ETHERLINE® 105C is designed to perform in high temperature applications. The 2 pair construction includes foil and braid shielding and a TPE-based jacket.

Construction

Conductors: bare copper wire

Insulation: polyethylene

Shielding: foil and copper braid

Jacket: TPE; green

Recommended applications

Flexible high temperature applications; installation in hollow shaft between gear units and pitch system; PLCs, sensors, and other network devices

Approvals

RoHS, PROFINET®, EtherCAT® Technology Group, EtherNet/IP

Application advantage

- Highly temperature resistant (105°C permanent, 120°C temporary)
- No need for additional protection against high temperatures
- Suitable for EtherCAT® & EtherNet/IP applications
- Conforms to PROFINET® standard
- Optimum EMC
- **Suitable for PoE per IEEE 802.3at**

Cable attributes			page 648
OIL	OR-04	FLAME	FR-00
MOTION	FL-02	MECH.	MP-05

Complete the installation

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ÖLFLEX® CONNECT solution

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page 605

Technical data

Minimum bend radius:
- for stationary use: 10 x cable diameter
- for flexible use: 15 x cable diameter

Temperature range:
- for stationary use: -40°C to +105°C (up to +120°C for temporary loads)
- for flexible use: -30°C to +105°C

Nominal voltage: 125V (not for power applications)

Characteristic impedance: 100Ω ± 15Ω

Color code: white, yellow, blue, orange

Approvals: 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.5e											
2170636	22 AWG/2pr	7 wire	TPE	green	PROFINET®	no	yes	0.244	6.2	36	53112210

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ETHERLINE® 2 pair: CAT.5 ARMORED

Industrial Ethernet cable for harsh industrial environments

ETHERLINE® ARMORED has a foil and braid shield and comes with two layers of galvanized steel tape. This allows the cable to provide reliable data transmission in even the roughest industrial environments.

Construction

Conductors: solid bare copper

Pairs: star quad

Insulation: polyethylene

Shielding: PVC inner jacket; foil and braid; two layers of galvanized steel tape

Jacket: polyethylene; black

Recommended applications

Harsh industrial environments; stationary applications

Application advantage

- Suitable for EtherCAT® & EtherNet/IP applications
- Rodent protection
- High transmission reliability
- UV-resistant jacket
- **Suitable for PoE per IEEE 802.3at**

Approvals

RoHS, PROFINET, EtherCAT Technology Group, EtherNet/IP

Cable attributes			page 648
OIL	OR-00	FLAME	FR-00
MOTION	FL-00	MECH.	MP-01

Complete the installation


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ÖLFLEX® CONNECT solution


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Technical data

Minimum bend radius:
- for stationary use: 10 x cable diameter
- for flexible use: 15 x cable diameter

Temperature range:
- for stationary use: -40°C to +70°C
- for flexible use: -20°C to +60°C

Nominal voltage: 125V (not for power applications)

Characteristic impedance: 100Ω ± 15Ω

Color code: white, yellow, blue, orange

Approvals: RoHS

Part number	Construction	Stranding	Jacket material inner	Jacket material outer	Jacket color inner	Jacket color outer	Approvals	Fast connect	PoE	Nominal outer diameter in	Nominal outer diameter mm	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
CAT.5													
2170496	22 AWG/2pr	solid	PVC	PE	green	black	PROFINET®	no	yes	0.366	9.3	83	53112230

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Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section.
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ETHERLINE® 2 pair: CAT.5 HYBRID

Industrial Ethernet cable for power with Ethernet applications

ETHERLINE® HYBRID is a CAT.5 hybrid data cable for data transmission and power supply for industrial usage. The cable is designed for stationary installation and occasional movement. The separately screened core pairs ensure transmission reliability in areas with a high load of electromagnetic capacity.

Construction

Conductors: stranded bare copper

Pairs: data and power pairs each twisted together

Insulation: power pairs: halogen-free compound • data pairs: polyethylene

Shielding: data pairs: foil and copper braid

Jacket: halogen-free; green

Recommended applications

Flexible power with Ethernet applications

Application advantage

- Data and power transmission with one cable
- Suitable for EtherCAT® & EtherNet/IP applications
- Halogen-free
- Flame retardant
- Sunlight resistant
- **Suitable for PoE per IEEE 802.3at**

Approvals

Cable attributes			page 648
OIL	OR-00	FLAME	FR-01
MOTION	FL-02	MECH.	MP-01

Complete the installation

SKINTOP® MS-SC
page 522

ÖLFLEX® CONNECT solution

ÖLFLEX® CONNECT CABLES
page 605

Technical data

Minimum bend radius:
- for stationary use: 5 x cable diameter
- for flexible use: 10 x cable diameter

Temperature range: -20°C to +70°C

Nominal voltage: (not for power applications)
- power pairs: 100V
- data pairs: 150V

Test voltage:
- power pairs: 1000V
- data pairs: 700V

Characteristic impedance: 100Ω ± 15Ω

Color code:
- power pairs: black with white numbers
- data pairs: white & blue; yellow & orange

Approvals: UL: AWM 21282
Additional: RoHS

Part number	Construction	Stranding data pair	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											
2170887	22 AWG/2pr + 16 AWG/4c	7 wire	halogen-free	green	PROFINET®, UL AWM	no	yes	0.406	10.3	103	53112230

ETHERLINE® 4 pair: CAT.5e; stationary

Industrial Ethernet cable for stationary applications

ETHERLINE® 4 pair cables for stationary applications are suitable for CAT.5e data transmission. Designed with a foil and braid shield, the cable is protected against EMI and can be used in areas where reliable data transmission is key. The cable is available with a PUR or halogen-free jacket, or with a double halogen-free inner and outer jacket.

Construction

Conductors: solid bare copper

Pairs: 4 pairs twisted together

Insulation: foam skin

Shielding: foil and tinned copper braid

Jacket: polyurethane or halogen-free; teal • 2170298: halogen-free inner & outer jackets

Recommended applications

Stationary applications; industrial field and cell level networking; PLCs, sensors, and other network devices; dry and damp rooms

Application advantage

- Suitable for EtherCAT® & EtherNet/IP applications
- Excellent EMI protection
- Flame retardant
- **Suitable for PoE per IEEE 802.3at**

Approvals

cULus RoHS EtherCAT Technology Group EtherNet/IP

Cable attributes page 648

See attribute list by part number on page 234

Complete the installation


SKINTOP® MS-SC page 522


RJ45 connectors page 257

ÖLFLEX® CONNECT solution


ÖLFLEX® CONNECT CABLES page 605

Technical data

Minimum bend radius:
- for stationary use: 8 x cable diameter

Temperature range: -30°C to +80°C

Nominal voltage: (not for power applications)
- 2170297: 1000V
- 2170296, 2170298: 125V

Test voltage: 1000V

Characteristic impedance: 100Ω ± 15Ω

Color code: white/blue & blue, white/orange & orange, white/green & green, white/brown & brown

Approvals:
UL: AWM 21576 (2170297)
Canada: cRU AWM I/II A/B FT2 (2170297)
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.5e											
2170296	24 AWG/4pr	solid	halogen-free	teal	–	no	yes	0.248	6.3	36	53112210
2170297	24 AWG/4pr	solid	PUR	teal	UL/CSA AWM, 1000V	no	yes	0.248	6.3	42	53112210
2170298	24 AWG/4pr	solid	halogen-free*	teal	–	no	yes	0.296	7.5	54	53112220

* Inner and outer jacket

ETHERLINE® 4 pair: CAT.5e; flexible

Industrial Ethernet cable for flexible applications

ETHERLINE® 4 pair CAT.5e cables designed for flexible applications come with a foil and braid shield for EMI protection. Jacket options include polyurethane and a Low Smoke Zero Halogen (LSZH) compound for applications where human safety and damage to electronic components are a concern.

Construction

Conductors: stranded bare copper

Pairs: 4 pairs twisted together

Insulation: polyethylene

Shielding: foil and tinned copper braid

Jacket: polyurethane or halogen-free; teal

Recommended applications

Flexible applications; wiring of industrial network devices, sensors, actuators, and cordsets

Application advantage

- Suitable for EtherCAT® & EtherNet/IP applications
- High-quality foil and braid protect against EMI
- Flame retardant
- LSZH jacket available

Approvals

cULus RoHS EtherCAT Technology Group EtherNet/IP

Cable attributes page 648

See attribute list by part number on page 234

Complete the installation


SKINTOP® MS-SC page 522


RJ45 connectors page 258

ÖLFLEX® CONNECT solution


Industrial Ethernet cordsets page 620

Technical data

Minimum bend radius:
- for stationary use: 8 x cable diameter
- for flexible use: 15 x cable diameter

Temperature range:
- 2170299:
  - for stationary use: -20°C to +75°C
  - for flexible use: -5°C to +50°C
- 2170300:
  - for stationary use: -40°C to +80°C
  - for flexible use: -5°C to +60°C

Nominal voltage: (not for power applications)
- 2170299: 125V
- 2170300: 1000V

Test voltage:
- 2170299: 700V

Characteristic impedance: 100Ω ± 15Ω

Color code: white/blue & blue, white/orange & orange, white/green & green, white/brown & brown,

Approvals:
UL: AWM 21576 (2170300)
Canada: cRU AWM I/II A/B FT2 (2170300)
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.5e cable											
2170299	26 AWG/4pr	7 wire	halogen-free (LSZH)	teal	–	no	no	0.240	6.1	32	53112210
2170300	26 AWG/4pr	7 wire	PUR	teal	UL/CSA AWM, 1000V	no	no	0.240	6.1	36	53112210

Max cable run: 196 ft (60 m)

ETHERLINE® 4 pair: CAT.5e; continuous flex

Industrial Ethernet cable for continuous flex applications

This ETHERLINE® 4 pair cable is suitable for CAT.5e continuous flex applications in harsh industrial environments where EMI is pervasive. The rugged polyurethane jacket offers excellent protection against oils and abrasion, and is also halogen-free.

Construction

Conductors: stranded bare copper

Pairs: 4 pairs twisted together

Insulation: polyolefin

Shielding: tinned copper braid

Jacket: polyurethane; teal

Recommended applications

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

Application advantage

- Suitable for EtherCAT® & EtherNet/IP applications
- Tested for 2.5 million flex cycles
- Shield provides reliable data transmission
- Easy routing
- PUR jacket is resistant to oil and abrasion

Approvals

c UL us · RoHS · EtherCAT Technology Group · Continuous Flex Test Method Verified UL VERIFIED A522492 · EtherNet/IP

Cable attributes			page 648
OIL	OR-04	FLAME	FR-00
MOTION	CF-02*	MECH.	MP-05

Complete the installation


SKINTOP® MS-SC page 522


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:
- for stationary use: -30°C to +80°C
- for continuous flexing: -20°C to +70°C

Nominal voltage: 1000V (not for power applications)

Test voltage: 1000V

Characteristic impedance: 100Ω ± 15Ω

Color code: white/blue & blue, white/orange & orange, white/green & green, white/brown & brown

Approvals:
UL: AWM 21576
Canada: cRU AWM I/II A/B FT2
Additional: RoHS
*UL Verified ID A522492: Continuous Flex Test Method Verified

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.5e											
2170489	26 AWG/4pr	19 wire	PUR	teal	UL/CSA AWM, 1000V	no	no	0.248	6.3	36	53112210

Max cable run: 196 ft (60 m)

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ETHERLINE® 4 pair: CAT.6; continuous flex

Industrial Ethernet cable for continuous flex applications

Designed with 4 pairs, a foil and braid shield, and a rugged PUR jacket, this ETHERLINE® cable meets CAT.6 requirements. It can be used in continuous flex applications.

Construction

Conductors: stranded tinned copper

Pairs: 4 pairs divided by central filler element

Insulation: polypropylene

Shielding: FRNC inner jacket; foil and braid

Jacket: polyurethane; green

Recommended applications

Continuous flex applications; cable tracks; cordsets

Application advantage

- PUR outer jacket is highly resistant to oils, abrasion, and UV radiation
- Premium screening against EMI
- Suitable for EtherCAT® & EtherNet/IP applications

Approvals

EtherCAT Technology Group · EtherNet/IP · RoHS · Continuous Flex Test Method Verified (UL VERIFIED A522492) · c UL us

Cable attributes			page 648
OIL	OR-04	FLAME	FR-02
MOTION	CF-01*	MECH.	MP-05

Complete the installation

SKINTOP® MS-SC page 522

RJ45 connectors page 258

ÖLFLEX® CONNECT solution

ÖLFLEX® CONNECT CABLES page 605

Technical data

Minimum bend radius:
- for stationary use: 4 x cable diameter
- for continuous flexing: 7.5 x cable diameter

Temperature range:
- for stationary use: -40°C to +80°C
- for continuous flexing: -30°C to +70°C

Nominal voltage: 100V (not for power applications)

Test voltage: 700V

Characteristic impedance: 100Ω ± 15Ω

Color code: white & blue, white & orange, white & green, white & brown

Approvals:
UL: CMX
Canada: c(UL) CMX
Additional: RoHS
*UL Verified ID A522492: Continuous Flex Test Method Verified

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.6											
2170488	26 AWG/4pr	19 wire	PUR	green	UL/CSA CMX	no	no	0.307	7.8	42	53112220

Max cable run: 196 ft (60 m)

ETHERLINE® 4 pair: CAT.6A/CAT.7; stationary

Industrial Ethernet cable for stationary applications

ETHERLINE® CAT.6A and CAT.7 cables are suitable for stationary applications. The 4 pairs are individually wrapped in metal foil and the overall braid provides additional protection against EMI. Three different jacket options are available.

Construction

Conductors: solid bare copper

Pairs: 4 pairs, individually shielded with foil tape

Insulation: polyethylene

Shielding: overall copper braid

Jacket: PVC, polyurethane, or halogen-free; green

Recommended applications

Stationary applications in harsh industrial environments; dry or damp rooms; CAT.6A = 500 MHz; CAT.7 = 600 MHz

Application advantage

- Suitable for EtherCAT® & EtherNet/IP applications
- PUR jacket is highly resistant to mineral oils and abrasion
- Suitable for PoE per IEEE 802.3at

Approvals

RoHS

EtherCAT Technology Group

EtherNet/IP

Cable attributes page 648

See attribute list by part number on page 234

Complete the installation

SKINTOP® MS-SC
page 522

ÖLFLEX® CONNECT solution

Industrial Ethernet cordsets
page 620

Technical data

Minimum bend radius:
- for stationary use: 10 x cable diameter

Temperature range:
- PUR & PVC: -40°C to +80°C
- halogen-free: -25°C to +80°C

Nominal voltage: 100V (not for power applications)

Test voltage: 700V

Characteristic impedance: 100Ω ± 15Ω

Color code: white/blue & blue, white/orange & orange, white/green & green, white/brown & brown

Approvals: 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.6A											
2170464	22 AWG/4pr	solid	PVC	green	–	no	yes	0.343	8.7	66	53112220
2170465	22 AWG/4pr	solid	PUR	green	–	no	yes	0.343	8.7	61	53112220
2170466	22 AWG/4pr	solid	halogen-free	green	–	no	yes	0.343	8.7	67	53112220
CAT.7											
2170474	22 AWG/4pr	solid	PVC	green	–	no	yes	0.343	8.7	66	53112220
2170475	22 AWG/4pr	solid	halogen-free PUR	green	–	no	yes	0.343	8.7	61	53112220
2170476	22 AWG/4pr	solid	halogen-free FRNC	green	–	no	yes	0.343	8.7	67	53112220

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ETHERLINE® 4 pair: CAT.6A; continuous flex

Industrial Ethernet cable for continuous flex applications

This ETHERLINE® 4 pair cable meets CAT.6A requirements and is suitable for continuous flex applications. Individually shielded pairs and an overall braid shield protect the cable from EMI and allow reliable, high-speed data transfer. The cable is available with a PVC or halogen-free polyurethane jacket.

Construction

Conductors: stranded tinned copper

Pairs: 4 pairs individually shielded with aluminum compound foil

Insulation: foam skin

Shielding: overall copper braid

Jacket: PVC or polyurethane; green

Recommended applications

Continuous flex applications; cable tracks; moving machine parts; harsh environments; qualified for CAT.6A = 10 Gbits/s

Application advantage

- Suitable for EtherCAT® & EtherNet/IP applications
- Qualified for 10 Gigabit Ethernet
- Premium shielding against EMI
- Oil-resistant jacket
- Conforms to PROFINET® standard
- **Suitable for PoE per IEEE 802.3at**

Approvals

Continuous Flex Test Method Verified UL VERIFIED verifyUL.com A522492

Cable attributes page 648

See attribute list by part number on page 234 *

Complete the installation

SKINTOP® MS-SC page 522

RJ45 CAT.6A connectors page 258

ÖLFLEX® CONNECT solution

Industrial Ethernet cordsets page 620

Technical data

Minimum bend radius:
- for continuous flexing: 15 x cable diameter

Temperature range:
- for stationary use: -40°C to +80°C
- for continuous flexing: -10°C to +70°C

Nominal voltage: (not for power applications)
- 2170484: 1000V
- 2170485: 125V

Characteristic impedance: 100Ω ± 15Ω

Color code: white & blue, white & orange, white & green, white & brown

Approvals:
UL: AWM 21576 (2170484)
CMX per UL 444 (2170484)
RU AWM 80°C 1000V (2170484)
CMG per UL 444 (2170485)
Canada: c(UL) CMX (2170484)
cRU AWM I/II A/B FT2 (2170484)
c(UL) CMG FT4 (2170485)
Additional: RoHS
*UL Verified ID A522492: Continuous Flex Test Method Verified

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.6A											
2170484	24 AWG/4pr	7 wire	PUR	green	PROFINET®, UL/CSA AWM, CMX	no	yes	0.355	9.0	60	53112220
2170485	24 AWG/4pr	7 wire	PVC	green	PROFINET®, UL/CSA CMG (75°C)	no	yes	0.355	9.0	59	53112220

ETHERLINE® 4 pair: CAT.6A TORSION

Industrial Ethernet cable for torsion stress

ETHERLINE® 4 Pair: CAT.6A TORSION cable meets CAT.6A requirements and can be used in torsion applications. The premium shielding allows reliable, high-speed data transfer. Jacket options include PVC and halogen-free polyurethane.

Construction

Conductors: stranded tinned copper

Pairs: 4 pairs individually shielded with aluminum compound foil

Insulation: foam skin

Shielding: overall copper braid

Jacket: PVC or polyurethane; green

Recommended applications

High-torsion stress applications; harsh industrial environments

Approvals

Application advantage

- Suitable for EtherCAT® & EtherNet/IP applications
- Suitable for high-torsion stress
- Qualified for 10 Gigabit Ethernet
- Excellent EMI protection
- Oil-resistant jacket
- Conforms to PROFINET® standard
- **Suitable for PoE per IEEE 802.3at**

Cable attributes page 648

See attribute list by part number on page 234

Complete the installation


SKINTOP® MS-SC page 522


RJ45 CAT.6A connectors page 258

ÖLFLEX® CONNECT solution


ÖLFLEX® CONNECT CABLES page 605

Technical data

Minimum bend radius: 15 x cable diameter

Temperature range:
- for stationary use: -40°C to +80°C
- for flexible use: -10°C to +70°C

Nominal voltage: (not for power applications)
- 2170482: 125V
- 2170483: 1000V

Characteristic impedance: 100Ω ± 15Ω

Color code: white & blue, white & orange, white & green, white & brown

Approvals:

UL: CMG per UL 444 (2170482)
AWM 21576 (2170483)
CMX per UL 444 (2170483)
RU AWM 80°C 1000V (2170483)

Canada: c(UL) CMG FT4 (2170482)
c(UL) CMX (2170483)
cRU AWM I/II A/B FT2 (2170483)

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.6A											
2170482	24 AWG/4pr	7 wire	PVC	green	PROFINET®, UL/CSA CMG	no	yes	0.355	9.0	59	53112220
2170483	24 AWG/4pr	7 wire	PUR	green	PROFINET®, UL/CSA AWM, CMX, 1000V	no	yes	0.355	9.0	60	53112220

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ETHERLINE® 4 pair: CAT.7; flexible

Industrial Ethernet cable for flexible applications

NEW

ETHERLINE® CAT. 7 flexible cables are designed for flexible applications and come with an overall foil and braid shield and individually shielded pairs for EMI protection.

Construction

Conductors: stranded bare copper

Pairs: 4 pairs individually shielded with aluminum compound foil

Insulation: polyethylene

Shielding: foil & tinned copper braid

Jacket: halogen-free polyurethane; green

Recommended applications

Flexible applications; wiring of industrial network devices, sensors, actuators, and cordsets

Application advantage

- Can be used in dry or damp rooms
- Qualified for 10 Gigabit Ethernet
- Suitable for EtherCAT® & EtherNet/IP applications
- Excellent EMI protection
- Space-saving due to small cable diameter
- Robust halogen-free outer jacket

Approvals

cULus EtherCAT Technology Group EtherNet/IP

Cable attributes			page 648
OIL	OR-04	FLAME	FR-01
MOTION	FL-02	MECH.	MP-05

Complete the installation

SKINTOP® MS-SC
page 522

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page 258

ÖLFLEX® CONNECT solution

ÖLFLEX® CONNECT CABLES
page 605

Technical data

Minimum bend radius:
- for installation: 4 x cable diameter
- for torsion & flexing: 10 x cable diameter

Temperature range:
- for installation: -50°C to +80°C
- for flexible use: -40°C to +80°C

Nominal voltage: 125V (not for power applications)

Characteristic impedance: 100Ω ± 15Ω

Color code: white/blue & blue, white/orange & orange, white/green & green, white/brown & brown

Approvals: UL: AWM 21576
Canada: cRU AWM I/II A/B FT2

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.7											
2170934	26 AWG/4pr	7 wire	PUR	green	UL AWM, CMX	no	no	0.250	6.4	31	53112210

Max cable run: 196 ft (60 m)

ETHERLINE® 4 pair: CAT.7 TORSION

Industrial Ethernet cable for torsion stress

ETHERLINE® CAT. 7 TORSION meets CAT. 7 requirements and can be used in torsion applications. The premium shielding allows reliable, high-speed data transfer.

Construction

Conductors: stranded tinned copper

Pairs: 4 pairs individually shielded with aluminum compound foil

Insulation: polyethylene

Shielding: overall copper braid

Jacket: halogen-free polyurethane; green

Recommended applications

High-torsion stress applications; harsh industrial environments

Application advantage

- Suitable for high-torsion stress
- Qualified for 10 Gigabit Ethernet
- Suitable for EtherCAT® & EtherNet/IP applications
- Excellent EMI protection
- Halogen-free & oil resistant
- **Suitable for PoE per IEEE 802.3at**

Approvals

c UL us · PROFINET® · EtherCAT® Technology Group · EtherNet/IP

Cable attributes			page 648
OIL	OR-04	FLAME	FR-02
MOTION	T-01	MECH.	MP-05

Complete the installation


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RJ45 connectors page 257

ÖLFLEX® CONNECT solution


ÖLFLEX® CONNECT CABLES page 605

Technical data

Minimum bend radius:
- for installation: 8 x cable diameter
- for torsion & flexing: 15 x cable diameter

Temperature range:
- for installation: -40°C to +80°C
- for flexible use: -30°C to +70°C

Nominal voltage: 125V (not for power applications)

Characteristic impedance: 100Ω ± 15Ω

Color code: white & blue, white & orange, white & green, white & brown

Approvals: UL: CMX, AWM 21576; Canada: c(UL) CMX

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.7											
2170481	24 AWG/4pr	7 wire	PUR	green	UL AWM, CMX	no	yes	0.367	9.4	64	53112220

Max cable run: 279 ft (85 m)

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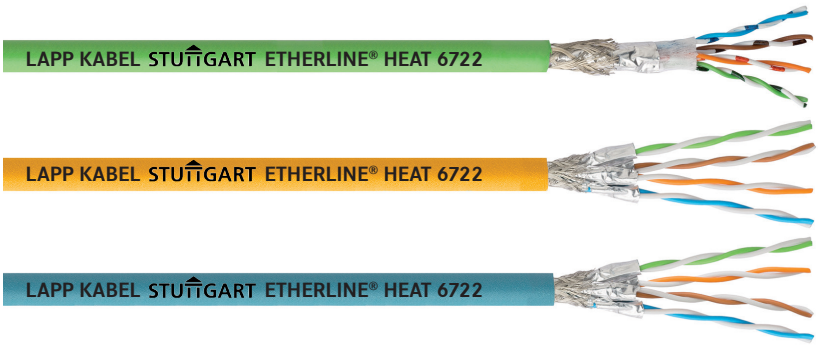
ETHERLINE® HEAT 6722

Flexible special Ethernet cable for high-temperature applications



ETHERLINE® HEAT 6722 CAT.5e, CAT.6A, and CAT.7 cables are suitable for flexible applications. They are heat resistant up to 105°C and are also suitable for outdoor applications.

Recommended applications

connecting camera, info/entertainment, and ticketing systems in transportation environments

Construction

Conductors: stranded bare copper

Pairs: 4 pairs twisted together

Insulation: polyolefin wrapped with special fire-retardant tape

Shielding: CAT.5e: overall foil & tinned copper braid • CAT.6A/CAT.7: overall copper braid with foil-shielded pairs

Jacket: halogen-free polyurethane; green, yellow, or blue

Application advantage

- ISO 6722 compliant
- Good resistance to oil, petrol, acids, and alkalis
- Halogen-free jacket is resistant to abrasion, cuts, and oil
- Easy to strip and dismantle
- Tested according to ECE-R 118.01
- **Suitable for PoE per IEEE 802.3at**

Approvals

RoHS, PROFINET®

Cable attributes			page 648
OIL	OR-04	FLAME	FR-01
MOTION	FL-02	MECH.	MP-05

Complete the installation

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ÖLFLEX® CONNECT solution

ÖLFLEX® CONNECT CABLES
page 605

Technical data

Minimum bend radius:
- for stationary use: 10 x cable diameter
- for flexible use: 15 x cable diameter

Temperature range:
- for stationary use: -40°C to +105°C
- for flexible use: -30°C to +105°C

Nominal voltage: 125V (not for power applications)

Characteristic impedance: 100Ω ± 15Ω

Color code:
- CAT.5e: white/blue & blue, white/orange & orange, white/green & green, white/brown & brown
- CAT.6A/7: white & blue, white & orange, white & green, white & brown

Approvals: RoHS

Part number	Construction	Stranding	Jacket material	Jacket color	Approvals	PoE	Nominal outer diameter in	Nominal outer diameter mm	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
CAT.5e										
2170850	24 AWG/4pr	7 wire	PUR	green	PROFINET®	yes	0.303	7.7	48	53112220
CAT.6A										
2170581	24 AWG/4pr	7 wire	PUR	yellow	PROFINET®	yes	0.319	8.1	52	53112220
CAT.7										
2170582	24 AWG/4pr	7 wire	PUR	blue	PROFINET®	yes	0.319	8.1	52	53112220

ETHERLINE® TRAY CAT.5e; flexible

Tray-rated industrial Ethernet cable for flexible applications

ETHERLINE® TRAY CAT.5e cables are designed for flexible applications. Designed with a foil and braid shield, the cable is protected against EMI and can be used in areas where reliable transmission is key.

Construction

Conductors: stranded bare copper

Pairs: 4 pairs twisted together

Insulation: thermoplastic-based insulation

Shielding: foil and tinned copper braid

Jacket: PVC; green

Recommended applications

Flexible applications, cable trays, industrial machinery, plant infrastructure

Application advantage

- Wide application range due to multiple certifications
- Designed for tray applications (PLTC-ER)
- Suitable for EtherNet/IP applications
- **Suitable for PoE per IEEE 802.3at**

Approvals

c UL us | RoHS | EtherCAT Technology Group | EtherNet/IP

Cable attributes			page 648
OIL	OR-02	FLAME	FR-05
MOTION	FL-02	MECH.	MP-01

Complete the installation

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90° RJ45 connectors page 259

ÖLFLEX® CONNECT solution

ÖLFLEX® CONNECT CABLES page 605

Technical data

Minimum bend radius:
- for stationary use: 10 x cable diameter
- for flexible use: 15 x cable diameter

Temperature range:
- for stationary use: -40°C to +80°C
- for flexible use: -25°C to +80°C

Nominal voltage: 600V (not for power applications)

Characteristic impedance: 100Ω ± 15Ω (1 – 100 MHz)

Color code: white/blue & blue, white/orange & orange, white/green & green, white/brown & brown

Approvals:
UL: CMR per UL 444, CMG per UL 444, PLTC-ER per UL 13, AWM 2570 80°C 600V
NEC: Class 1 Division 2 per NEC Article 501
Canada: c(UL) CMG
Additional: RoHS 2

Part number	Construction	Stranding	Jacket material	Jacket color	Approvals	PoE	Nominal outer diameter in	Nominal outer diameter mm	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
CAT.5e										
2170450	22 AWG/4pr	7 wire	PVC	green	UL CMR, UL AWM, PLTC-ER, 600V	yes	0.380	9.6	77	53112230

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section.
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.

ETHERLINE® FIRE CAT.5e PH 120

Halogen-free industrial Ethernet cable for harsh flame conditions

ETHERLINE® FIRE for stationary applications is suitable for CAT.5e data transmission. The halogen-free and flame-retardant (FRNC) jacket allows for this cable to perform in harsh fire conditions for at least 120 minutes.

Construction

Conductors: solid bare copper

Pairs: 4 pairs twisted together

Insulation: polyolefin; special fire-retardant tape

Shielding: foil tape

Jacket: halogen-free FRNC; red

Recommended applications

Industrial areas that use fire as a tool; highly combustible and/or fire-prone areas

Application advantage

- Flame retardant acc. to IEC 60332-1 & IEC 60332-3-24
- Double shielded for ensured EMI effectiveness
- Maintains integrity for a minimum of 120 minutes in the event of fire (PH 120 Classification acc. to EN50200)
- **Suitable for PoE per IEEE 802.3at**

Approvals

RoHS

Cable attributes			page 648
OIL	OR-00	FLAME	FR-03
MOTION	FL-01	MECH.	MP-01

Complete the installation


SKINTOP® MS-SC
page 522


RJ45 connectors
page 258

ÖLFLEX® CONNECT solution


ÖLFLEX® CONNECT CABLES
page 605

Technical data

Minimum bend radius: 15 x cable diameter

Temperature range: -20°C to +70°C

Nominal voltage: 125V (not for power applications)

Characteristic impedance: 100Ω ± 15Ω

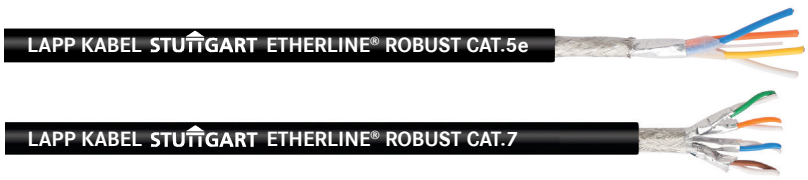
Color code: white/blue & blue, white/orange & orange, white/green & green, white/brown & brown

Part number	Construction	Stranding	Jacket material	Jacket color	Approvals	PoE	Nominal outer diameter in	Nominal outer diameter mm	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
CAT.5e										
2170905	23 AWG/4pr	solid	FRNC	red	–	yes	0.327	8.3	50	53112220

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section.
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.

ETHERLINE® ROBUST

Chemical-resistant industrial Ethernet cable for flexible applications



ETHERLINE® ROBUST flexible cables are suitable for CAT.5e and CAT.7 applications that require a higher level of chemical, UV, and weather resistance. They are designed with a foil and braid shield to protect against EMI and ensure reliable data transmission.

Construction

Conductors: stranded bare copper

Pairs: CAT.5e: 2 pair • CAT.7: 4 pair

Insulation: polyolefin

Shielding: CAT 5: overall foil and copper braid
CAT 7: foiled pairs and overall copper braid

Jacket: TPE; black

Recommended applications

Machine tool building; medical technology; laundries; car washing equipment; chemical industry; composting plants; sewage works; food & beverage industry, especially for production and processing of dairy and meat products

Application advantage

- Halogen-free materials
- Ozone-, UV-, and weather-resistant jacket
- Low smoke density
- **Suitable for PoE per IEEE 802.3at** (see table below)

Approvals

PROFINET® ECOLAB®

Cable attributes			page 648
OIL	OR-01	FLAME	FR-01
MOTION	FL-02	MECH.	MP-01

Complete the installation			
	SKINTOP® MS-SC page 522		RJ45 connectors page 257

ÖLFLEX® CONNECT solution	
	ÖLFLEX® CONNECT CABLES page 605

Technical data

Minimum bend radius:
- for stationary use: 8 x cable diameter
- for flexible use: 10 x cable diameter

Temperature range:
- for stationary use: -50°C to +80°C
- for flexible use: -40°C to +80°C

Characteristic impedance: 100Ω ± 15Ω

Color code:
- 2 pair: white & yellow, blue & orange
- 4 pair: white/blue & blue, white/orange & orange, white/green & green, white/brown & brown

Part number	Construction	Stranding	Jacket material	Jacket color	Approvals	PoE	Nominal outer diameter in	Nominal outer diameter mm	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
CAT.5e										
2170451	22 AWG/2pr	7 wire	TPE	black	PROFINET®	yes	0.268	6.8	34	53112210
CAT.7										
2170452	23 AWG/4pr	7 wire	TPE	black	PROFINET®	yes	0.355	9.0	50	53112220
2170453	26 AWG/4pr	7 wire	TPE	black	–	no	0.256	6.5	24	53112210

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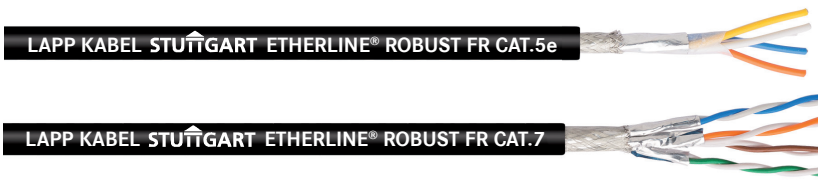
Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section.
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

ETHERLINE® ROBUST FR

Chemical-resistant industrial Ethernet cable for flexible applications



ETHERLINE® ROBUST FR flexible cables are suitable for CAT.5e and CAT.7 applications that require a flame-retardant jacket as well as chemical, UV, and weather resistance. They are designed with a foil and braid shield to protect against EMI and ensure reliable data transmission.

Construction

Conductors: stranded bare copper

Pairs: CAT.5e: 2 pair • CAT.7: 4 pair

Insulation: polyolefin

Shielding: CAT 5: overall foil and copper braid
CAT 7: foiled pairs and overall copper braid

Jacket: TPE; black

Recommended applications

Machine tool building; medical technology; laundries; car washing equipment; chemical industry; composting plants; sewage works; food & beverage industry, especially for production and processing of dairy and meat products

Application advantage

- Flame-retardant jacket
- Suitable for indoor and outdoor applications
- Suitable for EtherCAT® and EtherNet/IP applications
- **Suitable for PoE per IEEE 802.3at** (see table below)

Approvals

PROFINET® · EtherNet/IP · EtherCAT® Technology Group · ECOLAB®

Cable attributes			page 648
OIL	OR-01	FLAME	FR-02
MOTION	FL-02	MECH.	MP-01

Complete the installation


SKINTOP® MS-SC
page 522


RJ45 connectors
page 258

ÖLFLEX® CONNECT solution


ÖLFLEX® CONNECT CABLES
page 605

Technical data

Minimum bend radius:
- for stationary use: 4 x cable diameter
- for flexible use: 10 x cable diameter

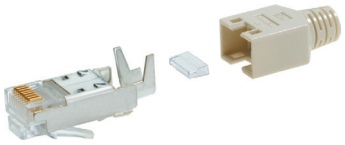
Temperature range:
- for stationary use: -50°C to +80°C
- for flexible use: -40°C to +80°C

Characteristic impedance: 100Ω ± 15Ω (1 - 100 MHz)

Color code:
- 2 pair: white & yellow, blue & orange
- 4 pair: white/blue & blue, white/orange & orange, white/green & green, white/brown & brown

Part number	Construction	Stranding	Jacket material	Jacket color	Approvals	PoE	Nominal outer diameter in	Nominal outer diameter mm	Approx. weight lbs/mft	SKINTOP® MS-SC PG thread
CAT.5e										
2170454	22 AWG/2pr	7 wire	TPE	black	PROFINET®	yes	0.268	6.8	37	53112220
CAT.7										
2170455	24 AWG/4pr	7 wire	TPE	black	PROFINET®	yes	0.355	9.0	54	53112230
2170456	26 AWG/4pr	7 wire	TPE	black	–	no	0.256	6.5	27	53112220

RJ45 CAT.5 Hirose TM11



Application advantage

- Suitable for 26 AWG stranded conductors
- Anti-kink protection
- Screened against EMI
- Bend protection & guide plate included

Approvals

RoHS

Contact tools

Hirose crimp tool
page 262

Part number	Conductor	Conductor size	Max. cable outer diameter in	Max. cable outer diameter mm	Pack size
CE6321	4	26 AWG	0.228	5.8	50

RJ45 CAT.5 Stewart SS37

Application advantage

- Suitable for 26 AWG stranded conductors
- Anti-kink protection
- Screened against EMI
- Bend protection & guide plate included

Approvals

RoHS

Contact tools

Stewart crimp tool
page 262

Part number	Conductor	Conductor size	Max. cable outer diameter in	Max. cable outer diameter mm	Pack size
CE6323	4	26 AWG	0.255	5.7	50

RJ45 CAT.5e FM45, field wireable

Application advantage

- Suitable for solid and stranded conductors
- Provides IP20 protection
- Tool-free, re-switchable field termination
- Tension- and vibration-resistant
- Can accommodate both screened and unscreened cables
- IDC/piercing terminal acc. to IEC 60352-4

Approvals

RoHS

Part number	Conductor	Conductor size	Max. cable outer diameter in	Max. cable outer diameter mm	Pack size
21700540	8	26 - 23 AWG*	0.315	8.0	1

* 22 AWG is possible, with restrictions.

If not otherwise specified, all values relating to the product are nominal values.
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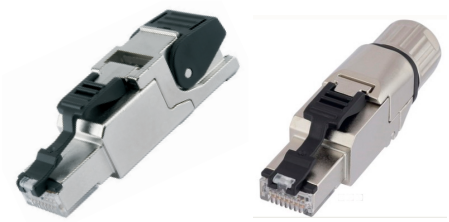
RJ45 CAT.5e for PROFINET®



Application advantage

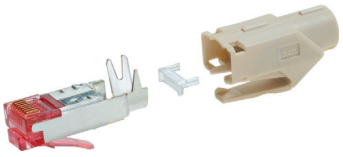
- Suitable for solid and stranded conductors
- Die-cast zinc housing
- Color coded to PROFINET® standards
- Conforms to IEC 60603-7-51

Approvals

RoHS

Part number	Conductors	Design style	Conductor size		Cable outer diameter		Pack size
			stranded	solid	in	mm	
21700605	4	Clamp	27 - 22 AWG (7 wire)	24 - 22 AWG	0.197 - 0.354	5.0 - 9.0	10
21700651	4	Round	27 - 22 AWG (7 wire)	24 - 22 AWG	0.217 - 0.394	5.5 - 10.0	1

RJ45 CAT.6 Hirose TM21



Application advantage

- Suitable for solid and stranded conductors
- Anti-kink protection
- Screened against EMI
- Bend protection & guide plate included

Approvals

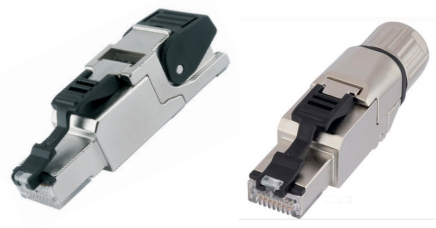
RoHS

Contact tools

Hirose crimp tool
page 262

Part number	Conductors	Conductor size	Max. cable outer diameter		Pack Size
			in	mm	
CE6324	8	26 - 24 AWG	0.26	6.6	50

RJ45 CAT.6A, field wireable



Application advantage

- Suitable for solid and stranded conductors
- Die-cast zinc housing
- Supports 10 Gigabit Ethernet
- Color coded to TIA/EIA-568 standards
- Conforms to IEC 60603-7-51
- Suitable for PROFINET® applications

Approvals

RoHS

Part number	Conductors	Design style	Color code	Conductor size		Cable outer diameter		Pack size
				stranded	solid	in	mm	
21700600	8	Clamp	T568A	27 - 22 AWG (7 wire)	24 - 22 AWG	0.197 - 0.354	5.0 - 9.0	10
21700601	8	Clamp	T568B	27 - 22 AWG (7 wire)	24 - 22 AWG	0.197 - 0.354	5.0 - 9.0	10
21700615	8	Clamp	T568A	27 - 24 AWG (19 wire)	26 - 24 AWG	0.197 - 0.354	5.0 - 9.0	10
21700616	8	Clamp	T568B	27 - 24 AWG (19 wire)	26 - 24 AWG	0.197 - 0.354	5.0 - 9.0	10
21700652	8	Round	T568A	27 - 22 AWG (7 wire)	24 - 22 AWG	0.217 - 0.394	5.5 - 10.0	1
21700653	8	Round	T568B	27 - 22 AWG (7 wire)	24 - 22 AWG	0.217 - 0.394	5.5 - 10.0	1
21700654	8	Round	T568A	27 - 24 AWG (19 wire)	26 - 24 AWG	0.217 - 0.394	5.5 - 10.0	1
21700655	8	Round	T568B	27 - 24 AWG (19 wire)	26 - 24 AWG	0.217 - 0.394	5.5 - 10.0	1

RJ45 CAT.6A Industry 10G connectors

Application advantage

- Suitable for solid and stranded conductors
- Nickel-plated brass housing
- Supports 10 Gigabit Ethernet
- Provides IP68 protection
- Conforms to IEC 60603-7-51

Approvals

RoHS

Part number	Conductors	Color code	Description	Conductor size stranded	Conductor size solid	Cable outer diameter in	Cable outer diameter mm	Pa siz
Plug								
21700630	8	T568A	inclusive RJ45 connector plug	27 - 22 AWG (7 wire)	26 - 22 AWG	0.197 - 0.355	5 - 9	1
21700631		–	dust cap	–	–	–	–	10
Receptacle								
21700632	8	T568B	inclusive RJ45 connector receptacle	27 - 22 AWG (7 wire)	26 - 22 AWG	0.197 - 0.355	5 - 9	1
21700633		–	dust cap	–	–	–	–	10

RJ45 90° CAT.5e

Application advantage

- Die-cast zinc housing
- Suitable for PROFINET® applications
- Suitable for solid and stranded conductors
- Configurable in 4 90° positions

Approvals

RoHS

Part number	Conductors	Conductor size stranded	Conductor size solid	Cable outer diameter in	Cable outer diameter mm	Pack size
21700638	4	27 - 22 AWG (7 wire)	24 - 22 AWG	0.217 - 0.394	5.5 - 10	1

RJ45 90° CAT.6A

Application advantage

- Die-cast zinc housing
- Suitable for PROFINET® applications
- Suitable for solid and stranded conductors
- Configurable in 4 90° positions

Approvals

RoHS

Part number	Conductors	Color code	Conductor size stranded	Conductor size solid	Cable outer diameter in	Cable outer diameter mm	Pack size
21700636	8	T568A	27 - 22 AWG (7 wire)	24 - 22 AWG	0.217 - 0.394	5.5 - 10.0	1
21700639	8	T568A	26 AWG (19 wire)	26 - 24 AWG	0.217 - 0.394	5.5 - 10.0	1
21700637	8	T568B	27 - 22 AWG (7 wire)	24 - 22 AWG	0.217 - 0.394	5.5 - 10.0	1

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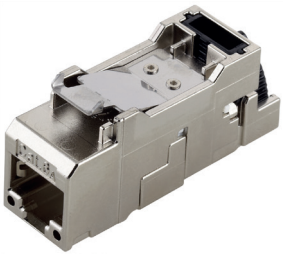
RJ45F CAT.6A



Application advantage

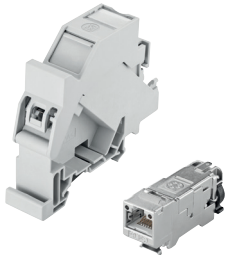
- Suitable for solid and stranded conductors
- Die-cast zinc housing
- Color-coded to PROFINET® standards
- Supports 10 Gigabit Ethernet
- Conforms to IEC 60603-7-51

Approvals

RoHS

Part number	Color code	Conductor size		Max. cable outer diameter	
		stranded	solid	in	mm
21700611	T568A	27 - 22 AWG (7 wire)	26 - 22 AWG	0.354	9.0
21700612	T568B	27 - 22 AWG (7 wire)	26 - 22 AWG	0.354	9.0

HS RJ45F CAT.6A



Application advantage

- Suitable for solid and stranded conductors
- Color-coded to PROFINET® standards
- Integrated strain relief for cables (OD up to 9 mm)
- Supports 10 Gigabit Ethernet
- Conforms to IEC 60603-7-51

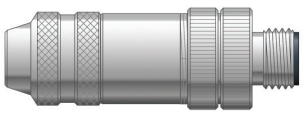
Approvals

RoHS

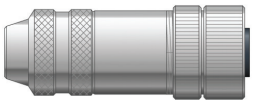
Part number	Color code	Conductor size		Cable outer diameter	
		stranded	solid	in	mm
21700613	T568A	27 - 22 AWG (7 wire)	26 - 22 AWG	0.197 - 0.354	5.0 - 9.0
21700614	T568B	27 - 22 AWG (7 wire)	26 - 22 AWG	0.197 - 0.354	5.0 - 9.0

M12 field wireable connectors

male



female



Application advantage

- Shielded design
- IP67 protection

Part number		Number of positions	Thread size	Max. conductor size	Cable outer diameter	
male	female				in	mm
C5E201C	C5E200C	8	PG 9	18 AWG	0.234 - 0.312	6 - 8

Technical data

Temperature range:	max. 85°C
Nominal voltage:	up to 60V
Nominal current:	up to 4A

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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.

M12 CAT.6A field wireable connectors

Application advantage

- Easy on-site assembly
- For 10 Gbit/sec data transmission acc. to CAT.6A
- Can be used for Power over Ethernet applications
- Robust and vibration resistant

Technical data

Temperature range:	-40°C to +85°C
Nominal voltage:	48V
Nominal current:	0.5A
Contact resistance:	100 mΩ

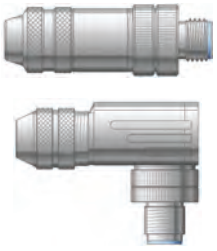
Part number	Connector	Number of positions	Coding	Fast connect	Conductor size stranded	Conductor size solid	Cable outer diameter in	Cable outer diameter mm
21700602	male M12	8	X-coded	yes	27 - 22 AWG (7 wire)	24 - 22 AWG	0.197 - 0.382	5.0 - 9.7

Approvals

RoHS

M12 field wireable connectors for PROFINET®

male



female

Technical data

Temperature range:	-40°C to +85°C
Nominal voltage:	250V
Nominal current:	4A
Coding:	D-coded

Part number male	Part number female	Connector design	Number of positions	Thread size	Fast connect
C5E203C	C5E202C	straight	4	PG 9	yes
C5E205C	C5E204C	90°	4	PG 9	yes

M12 FT IE

22262022

21700617

21700618

Application advantage

- Designs for front and rear wall mounting
- Die-cast zinc housing
- IP67 protection

Part number	Description	Number of positions	Coding
22262022	feed through connector	4	D-coded
21700617	front panel mount connector	8	X-coded
21700618	rear panel mount connector	8	X-coded

Approvals

RoHS

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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.

CCR FA cable coupler

Application advantage

- Die-cast zinc housing
- Supports 10 Gigabit Ethernet

Approvals

RoHS

Part number	Conductor size		Cable outer diameter		Pack size
	stranded	solid	in	mm	
21700623	24 AWG - 22 AWG (7 wire)	24 AWG - 22 AWG	0.197 - 0.382	5 - 9.7	1

RJ45 crimping tools

RJ45 Hirose

RJ45 Stewart

Part number	For RJ45 connectors	Pack size
RJ45 Hirose		
CE5091	TM11/TM12, 8-pole	1
RJ45 Stewart		
CE5093	SS378, 8-pole	1
CE5092	RJ plug: 4-, 6-, 6-DEC, & 8-pole	1

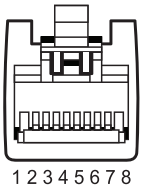
Fast connect stripping tool

Part number	Description	Cable outer diameter		Pack size
		in	mm	
21124030	stripping tool kit with blade	0.098 - 0.315	2.5 - 8.0	1
21124040	stripping tool without blade	0.098 - 0.315	2.5 - 8.0	1
21124041	blade cartridge	–	–	1

Continuous flex Industrial Ethernet cordsets

4-pair CAT.5e extension cordsets with two 8-wire RJ45 connectors

Pin out



1 = white/orange (+TX)
2 = orange (–TX)
3 = white/green (+RX)
4 = blue
5 = white/blue
6 = green (-RX)
7 = white/brown
8 = brown

The use of RJ45 connector in Ethernet network protocols is common. ETHERLINE® continuous flex CAT.5e cable offers a unique solution for the demanding needs of motion systems, where a network connection has been integrated for program inteface from remote locations. These cordsets are in stock. Cordsets with M12 connector options, other motion types, and custom cable lengths are also available, see page 620.

Technical data

Material:
- contact carrier: polycarbonate
- molded head: thermoplastic polyurethane; black (color is typical, not standard)
- contacts: gold-plated brass
- shield: copper braid or foil & copper braid
- cable jacket: polyurethane; teal
- conductor insulation: polyethylene

Temperature range: -20°C to +70°C

Rated voltage:
- cable: 42V 1000V (not for power applications)

Rated current: 1.5A

Conductor stranding: stranded bare copper

Protection class: IP20 NEMA 1, 3, 4, 6P

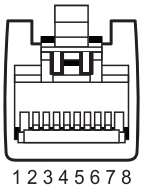
Part number continuous flex	Connector 1	Connector 2	Cable length m
C5E001F1	RJ45 shielded	RJ45 shielded	1
C5E001F2	RJ45 shielded	RJ45 shielded	2
C5E001F5	RJ45 shielded	RJ45 shielded	5
C5E001F10	RJ45 shielded	RJ45 shielded	10

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.

Continuous flex PROFINET® cordsets

2-pair CAT.5 extension cordsets with two 8-wire RJ45 connectors

Pin out



1 = yellow (TD+)
2 = orange (TD-)
3 = white (RD+)
4 = N/C
5 = N/C
6 = blue (RD-)
7 = N/C
8 = N/C

These molded cordsets utilize high quality ETHERLINE® CAT.5 continuous flex cable and integral molded strain relief. For motion applications, these cordsets are designed to provide interconnection between simple devices (sensors and actuators) and high level devices (PLCs and computers). These cordsets are in stock. Cordsets with M12 connector options, other motion types, and custom cable lengths are also available, see page 624.

Technical data

Material:
- contact carrier: polycarbonate
- molded head: thermoplastic polyurethane; black (color is typical, not standard)
- contacts: gold-plated brass
- shield: foil & tinned copper braid
- cable jacket: polyurethane; green
- conductor insulation: polyethylene

Temperature range: -20°C to +60°C

Rated voltage: 42V
- cable: 100V (not for power applications)

Rated current: 1.5A

Conductor stranding: stranded bare copper

Protection class: IP20

Part number continuous flex	Connector 1	Connector 2	Cable length m
CPN001F1	RJ45 shielded	RJ45 shielded	1
CPN001F2	RJ45 shielded	RJ45 shielded	2
CPN001F5	RJ45 shielded	RJ45 shielded	5
CPN001F10	RJ45 shielded	RJ45 shielded	10