

ETHERLINE®

Ethernet Cable, Connectors & Tools



2 Pair Industrial Ethernet Cable 242

4 Pair Industrial Ethernet Cable 249

Industrial Ethernet Connectors & Tools 256

ETHERLINE®

Ethernet Cable,
Connectors & Tools



ETHERNET CABLE, CONNECTORS & TOOLS

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ETHERLINE®

Ethernet Cable,
Connectors & Tools



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ETHERLINE®

Industrial Ethernet Cable

Quick Select Chart

ETHERLINE® Cable

Pairs	Application	Part Number	Category	Jacket Material	Size / Number of Pairs	Outer Diameter (inches)	
2 Pair	Stationary	2170893	CAT.5	PVC	22 AWG/2pr	0.256	
		2170891	CAT.5e	PVC	22 AWG/2pr	0.252	
		2170280	CAT.5e	Halogen-free	24 AWG/2pr	0.229	
		2170281	CAT.5e	PUR	24 AWG/2pr	0.229	
		2170494	CAT.5e	PVC/PVC	22 AWG/2pr	0.307	
		2170496	CAT.5	PVC/PE	22 AWG/2pr	0.366	
	Flexible	2170886	CAT.5	PVC	22 AWG/2pr	0.256	
		2170901	CAT.5e	PVC	22 AWG/2pr	0.244	
		2170283	CAT.5e	Halogen-free	26 AWG/2pr	0.213	
		2170284	CAT.5e	PUR	26 AWG/2pr	0.228	
		2170636	CAT.5e	TPE	22 AWG/2pr	0.244	
		2170887	CAT.5	Halogen-free	22 AWG/2pr + 16 AWG/4c	0.406	
	Continuous Flex	2170894	CAT.5	PUR	22 AWG/2pr	0.256	
		2170289	CAT.5e	PUR	26 AWG/2pr	0.240	
		2170289NA	CAT.5e	PUR	26 AWG/2pr	0.228	
	Torsion	2170888	CAT.5	PUR	22 AWG/2pr	0.256	
	4 Pair	Stationary	2170296	CAT.5e	Halogen-free	24 AWG/4pr	0.248
			2170297	CAT.5e	PUR	24 AWG/4pr	0.248
2170298			CAT.5e	Halogen-free/ Halogen-free	24 AWG/4pr	0.296	
2170464			CAT.6A	PVC	22 AWG/4pr	0.343	
2170465			CAT.6A	PUR	22 AWG/4pr	0.343	
2170466			CAT.6A	Halogen-free	22 AWG/4pr	0.343	
2140474			CAT.7	PVC	22 AWG/4pr	0.343	
2170475			CAT.7	PUR	22 AWG/4pr	0.343	
2170476			CAT.7	Halogen-free	22 AWG/4pr	0.343	
Flexible		2170299	CAT.5e	Halogen-free	26 AWG/4pr	0.240	
		2170300	CAT.5e	PUR	26 AWG/4pr	0.240	
		2170489	CAT.5e	PUR	26 AWG/4pr	0.248	
Continuous Flex		2170488	CAT.6	PUR	26 AWG/4pr	0.307	
		2170485	CAT.6A	PVC	24 AWG/4pr	0.355	
		2170484	CAT.6A	PUR	24 AWG/4pr	0.355	
Torsion		2170482	CAT.6A	PVC	24 AWG/4pr	0.355	
		2170483	CAT.6A	PUR	24 AWG/4pr	0.355	

	Approvals	Special Features	Cable Attributes, see page 659				Page
			Oil Resistance	Flame Resistance	Motion Type	Mechanical Protection	
	PROFINET, UL AWM, UL/CSA CMG	Fast connect, 600V	OR-00	FR-03	FL-01	MP-01	242
	PROFINET, UL/CSA CMX		OR-00	FR-02	FL-01	MP-01	242
	—		OR-00	FR-01	FL-01	MP-01	242
	—		OR-04	FR-01	FL-01	MP-05	242
	PROFINET, UL/CSA CMG	For outdoor use and direct burial	OR-00	FR-03	FL-01	MP-01	242
	PROFINET	Steel armored, for outdoor use and direct burial	OR-00	FR-00	FL-00	MP-01	247
	PROFINET, UL AWM, UL/CSA CMG	Fast Connect, 600V	OR-00	FR-03	FL-02	MP-01	243
	PROFINET		OR-00	FR-01	FL-02	MP-01	243
	—		OR-00	FR-01	FL-02	MP-01	243
	—		OR-04	FR-01	FL-02	MP-05	243
	PROFINET	High temperature (105°C)	OR-04	FR-00	FL-02	MP-05	246
	PROFINET, UL AWM	Hybrid cable for power with Ethernet applications	OR-00	FR-01	FL-02	MP-01	248
	PROFINET, UL/CSA CMX	Fast Connect	OR-04	FR-02	CF-01	MP-05	244
	—	Tested for 2.5 million flex cycles	OR-04	FR-00	CF-02	MP-05	244
	—	Tested for 2.5 million flex cycles	OR-04	FR-00	CF-02	MP-05	244
	PROFINET, UL AWM		OR-04	FR-01	FL-02 (torsion ± 180°/m)	MP-05	245
	—		OR-00	FR-01	FL-01	MP-01	249
	—		OR-04	FR-01	FL-01	MP-05	249
	—	Inner jacket for extra protection	OR-00	FR-01	FL-01	MP-01	249
	—	PiMF construction: pairs are individually shielded with foil tape	OR-00	FR-03	FL-01	MP-01	253
	—	PiMF construction: pairs are individually shielded with foil tape	OR-04	FR-01	FL-01	MP-05	253
	—	PiMF construction: pairs are individually shielded with foil tape	OR-00	FR-03	FL-01	MP-01	253
	—	PiMF construction: pairs are individually shielded with foil tape	OR-00	FR-03	FL-01	MP-01	253
	—	PiMF construction: pairs are individually shielded with foil tape	OR-04	FR-01	FL-01	MP-05	253
	—	PiMF construction: pairs are individually shielded with foil tape	OR-00	FR-03	FL-01	MP-01	253
	—		OR-00	FR-01	FL-02	MP-01	250
	—		OR-04	FR-01	FL-02	MP-05	250
	—	Tested for 2.5 million flex cycles	OR-04	FR-00	CF-02	MP-05	251
	UL/CSA CMX		OR-04	FR-02	CF-02	MP-05	252
	PROFINET		OR-00	FR-02	CF-01	MP-01	254
	PROFINET		OR-04	FR-02	CF-01	MP-05	254
	PROFINET		OR-00	FR-02	FL-02 (torsion ± 180°/m)	MP-01	255
	PROFINET		OR-04	FR-02	FL-02 (torsion ± 180°/m)	MP-05	255

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

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)
- 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 21694 (2170893)
PLTC (2170893)
CMG (2170893, 2170494)
CMX (2170891)
- Canada: c(UL) CMG (2170893, 2170494)
c(UL) CMX (2170891)
- Additional: RoHS

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
CAT.5 Cable										
2170893	22 AWG/2pr	Solid	PVC	Green	PROFINET, UL/CSA CMG, UL AWM, 600V	Yes	0.256	6.5	47	53112210
CAT.5e Cables										
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	—	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.

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.

Recommended Applications

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

Approvals



Construction

Conductors: Stranded bare copper

Pairs: 2 twisted pairs or star quad

Insulation: Polyethylene or polyolefin (2170901)

Shielding: Foil and copper braid

Jacket: Green or black PVC; teal polyurethane or halogen-free

Application Advantage

- Excellent EMI protection
- Oil-, flame- & UV-resistant 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
<ul style="list-style-type: none"> • ETHERLINE® 2 Pair: CAT.5/5e Continuous Flex • ETHERLINE® CAT.5 TORSION

Complete the Installation	
	SKINTOP® MS-SC: page 528
	Fast Connect Tool: page 259

Technical Data

Minimum Bend Radius: - for flexible use: 15 x cable diameter	Color Code: - 2170886, 2170901: White, yellow, blue, orange - 2170283, 2170284: White/orange & orange; white/green & green
Temperature Range: - 2170886: -20°C to +60°C - 2170901: -10°C to +70°C - 2170283, 2170284: -5°C to +60°C	Approvals: UL: AWM 21694 (2170886) PLTC (2170886) CMG (2170886) Canada: c(UL) CMG (2170886) Additional: RoHS
Nominal Voltage: (not for power applications) - 2170886: 600V (UL AWM) - all other P/Ns: 125V	
Characteristic Impedance: 100Ω ± 15Ω	

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
CAT.5 Cable										
2170886	22 AWG/2pr	7 wire	PVC	Green	PROFINET, UL/CSA CMG, UL AWM, 600V	Yes	0.256	6.5	45	53112210
CAT.5e Cables										
2170901	22 AWG/2pr	7 wire	PVC	Black	PROFINET	No	0.244	6.2	40	53112210
2170283*	26 AWG/2pr	7 wire	Halogen-free	Teal	—	No	0.213	5.4	29	53112210
2170284*	26 AWG/2pr	7 wire	PUR	Teal	—	No	0.228	5.8	30	53112210

* Max cable run: 196 ft (60 m)

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.

ETHERLINE® 2 Pair: CAT.5/CAT.5e; Continuous Flex

Industrial Ethernet Cable for Continuous Flex Applications



Continuous flex ETHERLINE® 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.

Recommended Applications

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

Approvals



Construction

Conductors: Stranded bare copper or tinned copper (2170894)

Pairs: 2 twisted pairs or star quad

Insulation: Polyolefin or polyethylene (2170894)

Shielding: Copper braid or foil and copper braid (2170894)

Jacket: Green or teal polyurethane

Application Advantage

- Easy cable routing
- Protection from EMI
- Fast connect style allows for quick installation

Lapp Systems Advantage

For Ethernet cordsets, see page 629



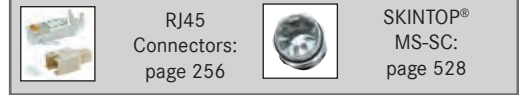
Cable Attributes, see page 659



Similar Cables

- ETHERLINE® CAT.5 TORSION
- ETHERLINE® 4 Pair: CAT.5e; Continuous Flex

Complete the Installation



Technical Data

<p>Minimum Bend Radius:</p> <ul style="list-style-type: none"> - for stationary use: 8 x cable diameter - for continuous flexing: 15 x cable diameter <p>Temperature Range:</p> <ul style="list-style-type: none"> - 2170894 & 2170289: <ul style="list-style-type: none"> - for continuous flexing: -20°C to +60°C - for stationary use: -30°C to +70°C - 2170289NA: <ul style="list-style-type: none"> - for continuous flexing: -5°C to +50°C - for stationary use: -40°C to +70°C <p>Nominal Voltage: (not for power applications)</p> <ul style="list-style-type: none"> - 2170894: 100V - 2170289 & 2170289NA: 125V 	<p>Characteristic Impedance: 100Ω ± 15Ω</p> <p>Color Code:</p> <ul style="list-style-type: none"> - 2170894: White, yellow, blue, orange - 2170289: White/orange & orange; white/green & green - 2170289NA: White/orange & orange; white/blue & blue <p>Approvals:</p> <ul style="list-style-type: none"> UL: CMX (2170894) Canada: cUL CMX (2170894) Additional: RoHS
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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
CAT.5 Cable										
2170894	22 AWG/2pr	7 wire	PUR	Green	PROFINET, UL/CSA CMX	Yes	0.256	6.5	42	53112210
CAT.5e Cable										
2170289*	26 AWG/2pr	19 wire	PUR	Teal	—	No	0.240	6.1	32	53112210
2170289NA*	26 AWG/2pr	19 wire	PUR	Teal	—	No	0.228	5.8	32	53112210

* Max cable run: 196 ft (60 m)

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.

ETHERLINE® 2 Pair: CAT.5 TORSION

Industrial Ethernet Cable Suitable for Torsion Stress

LAPP KABEL STUTTGART ETHERLINE® CAT.5 TORSION



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.

Recommended Applications

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

Construction

Conductors: Stranded tinned copper

Pairs: Star quad

Insulation: Foamed polyethylene

Shielding: Tinned copper braid, non-woven wrap

Jacket: Green halogen-free polyurethane

Application Advantage

- Suitable for high torsion stress
- High-quality shield provides excellent EMI protection
- Highly abrasion-resistant PUR jacket
- Halogen-free and flame retardant

Approvals



For Ethernet cordsets, see page 629



Lapp Systems Advantage

Cable Attributes, see page 659


OR-04	FR-01	FL-02*	MP-05
OIL	FLAME	MOTION	MECHANICAL

* Torsion ± 180°/m

Similar Cables

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

Complete the Installation



SKINTOP®
MS-SC:
page 528

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	Size / Pairs	Stranding	Jacket Material	Jacket Color	Approvals	Fast Connect	Nominal Outer Diameter (inches) (mm)		Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
CAT.5 Cable 2170888	22 AWG/2pr	19 wire	PUR	Green	PROFINET, UL AWM	No	0.256	6.5	35	53112210

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.

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: Green TPE

Recommended Applications

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

Application Advantage

- Highly temperature resistant (105°C permanent, 120°C temporary)
- No need for additional protection against high temperatures
- Conforms to PROFINET standard
- Optimum EMC

Approvals



Lapp Systems Advantage

For Ethernet cordsets, see page 629



Cable Attributes, see page 659

OR-04	FR-00	FL-02	MP-05
OIL	FLAME	MOTION	MECHANICAL

Similar Cables

- ETHERLINE® 2 Pair: CAT.5/5e
- ETHERLINE® 4 Pair: CAT.5/5e (both Stationary)

Complete the Installation

	RJ45 Connectors: page 256		SKINTOP® MS-SC: page 528
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Technical Data

Minimum Bend Radius: - for stationary use: 10 x cable diameter - for flexible use: 15 x cable diameter	Nominal Voltage: 125V (not for power applications)
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	Characteristic Impedance: 100Ω ± 15Ω
	Color Code: White, yellow, blue, orange
	Approvals: RoHS

Part Number	Size / Pairs	Stranding	Jacket Material	Jacket Color	Approvals	Fast Connect	Nominal Outer Diameter (inches) (mm)		Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
CAT.5e Cable 2170636	22 AWG/2pr	7 wire	TPE	Green	PROFINET	No	0.244	6.2	36	53112210

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.

ETHERLINE® 2 Pair: CAT.5 ARMORED

Industrial Ethernet Cable for Harsh Industrial Environments

LAPP KABEL STUTTGART ETHERLINE® CAT.5 ARMORED



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: Black polyethylene

Recommended Applications

Harsh industrial environments; stationary applications

Application Advantage

- Rodent protection
- High transmission reliability
- UV-resistant jacket

Approvals




Lapp Systems Advantage


For Ethernet cordsets, see page 629









Cable Attributes, see page 659

 OR-00	 FR-00	 FL-00	 MP-01
OIL	FLAME	MOTION	MECHANICAL

Complete the Installation

	RJ45 Connectors: page 256		SKINTOP® MS-SC: page 528
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Technical Data

 Minimum Bend Radius: - for stationary use: 10 x cable diameter - for flexible use: 15 x cable diameter	 Nominal Voltage: 125V (not for power applications)
 Temperature Range: - for stationary use: -40°C to +70°C - for flexible use: -20°C to +60°C	 Characteristic Impedance: 100Ω ± 15Ω
	 Color Code: White, yellow, blue, orange
	 Approvals: RoHS

Part Number	Size / Pairs	Stranding	Jacket Material (inner / outer)	Jacket Color (inner / outer)	Approvals	Fast Connect	Nominal Outer Diameter (mm)		Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
CAT.5 Cable 2170496	22 AWG/2pr	Solid	PVC / PE	Green / Black	PROFINET	No	0.366	9.3	83	53112230

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.

ETHERLINE® 2 Pair: CAT.5 HYBRID

Industrial Ethernet Cable for Power with Ethernet Applications

LAPP KABEL STUTTGART ETHERLINE® CAT.5 HYBRID



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.

Recommended Applications

Flexible power with Ethernet applications

Construction

- Conductors:** Stranded bare copper
- Pairs:** Data and power pairs each twisted together
- Insulation:** Power pairs: halogen-free compound;
Data pairs: Polyethylene
- Shielding:** Foil and copper braid
- Jacket:** Green halogen-free

Application Advantage

- Data and power transmission with one cable
- Halogen-free
- Flame retardant
- Sunlight resistant

Approvals



Lapp Systems Advantage

For Ethernet cordsets, see page 629



Cable Attributes, see page 659

OR-00	FR-01	FL-02	MP-01
OIL	FLAME	MOTION	MECHANICAL

Complete the Installation



SKINTOP®
MS-SC:
page 528

Technical Data

Minimum Bend Radius: - for stationary use: 5 x cable diameter - for flexible use: 10 x cable diameter	Test Voltage: - Power pairs: 1000V - Data pairs: 700V
Temperature Range: -20°C to +70°C	Characteristic Impedance: 100Ω ± 15Ω
Nominal Voltage: - Power pairs: 100V - Data pairs: 150V (not for power applications)	Color Code: - Power pairs: Black with white numbers - Data pairs: White & blue, yellow & orange
Approvals: UL: AWM 21282 Additional: RoHS	

Part Number	Conductor Description	Stranding	Jacket Material	Jacket Color	Approvals	Fast Connect	Nominal Outer Diameter (inches) (mm)		Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
CAT.5 Cable										
2170887	22 AWG/2pr + 16 AWG/4c	7 wire (data pair)	Halogen-free	Green	PROFINET, UL AWM	No	0.406	10.3	103	53112230

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.

ETHERLINE® 4 Pair: CAT.5e; Stationary

Industrial Ethernet Cable for Stationary Applications

LAPP KABEL STUTTGART ETHERLINE® CAT.5e



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:** Teal polyurethane or halogen-free
2170298: inner and outer jackets are halogen-free

Recommended Applications

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

Application Advantage

- Excellent EMI protection
- Flame retardant

Approvals



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® 4 Pair: CAT.5e
- ETHERLINE® 2 Pair: CAT.5/5e (both Flexible)

Complete the Installation



RJ45
Connectors:
page 256



SKINTOP®
MS-SC:
page 528

Technical Data

Minimum Bend Radius: - for stationary use:	8 x cable diameter	Characteristic Impedance:	100Ω ± 15Ω
Temperature Range:	-30°C to +80°C	Color Code:	White/blue & blue, white/orange & orange, white/green & green, white/brown & brown
Nominal Voltage:	125V (not for power applications)	Approvals:	RoHS
Test Voltage:	1000V		

Part Number	Size / Pairs	Stranding	Jacket Material	Jacket Color	Approvals	Fast Connect	Nominal Outer Diameter (inches) (mm)		Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
CAT.5e Cables										
2170296	24 AWG/4pr	Solid	Halogen-free	Teal	—	No	0.248	6.3	36	53112210
2170297	24 AWG/4pr	Solid	PUR	Teal	—	No	0.248	6.3	42	53112210
2170298	24 AWG/4pr	Solid	Halogen-free*	Teal	—	No	0.296	7.5	54	53112220

* 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.

ETHERLINE® 4 Pair: CAT.5e; Flexible

Industrial Ethernet Cable for Flexible Applications

LAPP KABEL STUTTGART ETHERLINE® CAT.5e



ETHERLINE® 4 pair CAT.5e cables are designed for flexible applications. The cables 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.

Recommended Applications

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

Approvals



Construction

Conductors: Stranded bare copper

Pairs: 4 pairs twisted together

Insulation: Polyethylene

Shielding: Foil and tinned copper braid

Jacket: Teal polyurethane or halogen-free

Application Advantage

- High-quality foil and braid protect against EMI
- Flame retardant
- LSZH jacket available

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® 4 Pair: CAT.5e
- ETHERLINE® 4 Pair: CAT.6 (both Continuous Flex)

Complete the Installation



RJ45 Connectors: page 256



SKINTOP® MS-SC: page 528

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:

125V (not for power applications)

Test Voltage:

- 2170299: 700V
- 2170300: 1000V

Characteristic Impedance:

100Ω ± 15Ω

Color Code:

White/blue & blue, white/orange & orange, white/green & green, white/brown & brown

Approvals:

RoHS

Part Number	Size / Pairs	Stranding	Jacket Material	Jacket Color	Approvals	Fast Connect	Nominal Outer Diameter (inches) (mm)		Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
CAT.5e Cables										
2170299*	26 AWG/4pr	7 wire	Halogen-free	Teal	—	No	0.240	6.1	32	53112210
2170300*	26 AWG/4pr	7 wire	PUR	Teal	—	No	0.240	6.1	36	53112210

* Max cable run: 196 ft (60 m)

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.

ETHERLINE® 4 Pair: CAT.5e; Continuous Flex

Industrial Ethernet Cable for Continuous Flex Applications

LAPP KABEL STUTTGART ETHERLINE® CAT.5e



This 4 pair ETHERLINE® 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.

Recommended Applications

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

Construction

Conductors: Stranded bare copper

Pairs: 4 pairs twisted together

Insulation: Polyolefin

Shielding: Tinned copper braid

Jacket: Teal polyurethane

Application Advantage

- Tested for 2.5 million flex cycles
- Shield provides reliable data transmission
- Easy routing
- PUR jacket is resistant to oil and abrasion

Approvals



Lapp Systems Advantage

For Ethernet cordsets, see page 629



Cable Attributes, see page 659

OR-04	FR-00	CF-02	MP-05
OIL	FLAME	MOTION	MECHANICAL

Similar Cables

- ETHERLINE® 4 Pair: CAT.6
- ETHERLINE® 2 Pair: CAT.5/5e (both Continuous Flex)

Complete the Installation

	RJ45 Connectors: page 256		SKINTOP® MS-SC: page 528
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Technical Data

Minimum Bend Radius: - for stationary use: 8 x cable diameter - for continuous flexing: 15 x cable diameter	Characteristic Impedance: 100Ω ± 15Ω
Temperature Range: - for stationary use: -30°C to +80°C - for continuous flexing: -20°C to +70°C	Color Code: White/blue & blue, white/orange & orange, white/green & green, white/brown & brown
Nominal Voltage: 125V (not for power applications)	Approvals: RoHS
Test Voltage: 1000V	

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
CAT.5e Cable										
2170489*	26 AWG/4pr	19 wire	PUR	Teal	—	No	0.248	6.3	36	53112210

* Max cable run: 196 ft (60 m)

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.

ETHERLINE®

Industrial Ethernet Cable

4 Pair

ETHERLINE® 4 Pair: CAT.6; Continuous Flex

Industrial Ethernet Cable for Continuous Flex Applications

LAPP KABEL STUTTGART ETHERLINE® CAT.6



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:** Green polyurethane

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

Approvals



For Ethernet cordsets, see page 629



Cable Attributes, see page 659

OR-04	FR-02	CF-02	MP-05
OIL	FLAME	MOTION	MECHANICAL

Similar Cables

- ETHERLINE® 4 Pair: CAT.5e Continuous Flex

Complete the Installation

	RJ45 Connectors: page 256		SKINTOP® MS-SC: page 528
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Technical Data

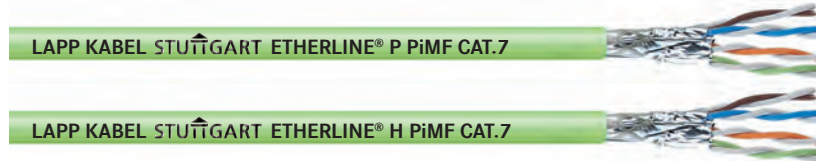
Minimum Bend Radius: - for stationary use: 4 x cable diameter - for continuous flexing: 7.5 x cable diameter	Test Voltage: 700V
Temperature Range: - for stationary use: -40°C to +80°C - for continuous flexing: -30°C to +70°C	Characteristic Impedance: 100Ω ± 15Ω
Nominal Voltage: 100V (not for power applications)	Color Code: White & blue, white & orange, white & green, white & brown
	Approvals: UL: CMX Canada: c(UL) CMX Additional: RoHS

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
CAT.6 Cable 2170488*	26 AWG/4pr	19 wire	PUR	Green	UL/CSA CMX	No	0.307	7.8	42	53112220

* Max cable run: 196 ft (60 m)

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.

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.

Recommended Applications

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

Approvals



Construction

- Conductors:** Solid bare copper
- Pairs:** 4 pairs, individually shielded with foil tape
- Insulation:** Polyethylene
- Shielding:** Overall copper braid
- Jacket:** Green PVC, polyurethane, or halogen-free

Application Advantage

- PUR jacket is highly resistant to mineral oils and abrasion

Lapp Systems Advantage

For Ethernet cordsets, see page 629



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

Complete the Installation

SKINTOP®
MS-SC:
page 528

Technical Data

<p> Minimum Bend Radius: - for stationary use: 10 x cable diameter</p> <p> Temperature Range: - PUR & PVC: -40°C to +80°C - Halogen-free: -25°C to +80°C</p> <p> Nominal Voltage: 100V (not for power applications)</p> <p> Test Voltage: 700V</p>	<p> Characteristic Impedance: 100Ω ± 15Ω</p> <p> Color Code: White/blue & blue, white/orange & orange, white/green & green, white/brown & brown</p> <p> Approvals: RoHS</p>
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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
CAT.6A Cables										
2170464	22 AWG/4pr	Solid	PVC	Green	—	No	0.343	8.7	66	53112220
2170465	22 AWG/4pr	Solid	PUR	Green	—	No	0.343	8.7	61	53112220
2170466	22 AWG/4pr	Solid	Halogen-free	Green	—	No	0.343	8.7	67	53112220
CAT.7 Cables										
2170474	22 AWG/4pr	Solid	PVC	Green	—	No	0.343	8.7	66	53112220
2170475	22 AWG/4pr	Solid	PUR	Green	—	No	0.343	8.7	61	53112220
2170476	22 AWG/4pr	Solid	Halogen-free	Green	—	No	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 4 pair ETHERLINE® cable is the first cable on the market that 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.

Recommended Applications

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

Approvals



Construction

- Conductors:** Stranded tinned copper
- Pairs:** 4 pairs individually shielded with aluminum compound foil
- Insulation:** Foam skin
- Shielding:** Overall copper braid
- Jacket:** Green PVC or polyurethane

Application Advantage

- Qualified for 10 Gigabit Ethernet
- Premium shielding against EMI
- Oil-resistant jacket
- Conforms to PROFINET standard



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® 4 Pair: CAT.6A TORSION

Complete the Installation			
	RJ45 CAT.6A Connectors: page 257		SKINTOP® MS-SC: page 528

Technical Data

 Minimum Bend Radius: - for continuous flexing: 15 x cable diameter	 Characteristic Impedance: 100Ω ± 15Ω
 Temperature Range: - for stationary use: -40°C to +80°C - for continuous flexing: -10°C to +70°C	 Color Code: White/blue & blue, white/orange & orange, white/green & green, white/brown & brown
 Nominal Voltage: 125V (not for power applications)	 Approvals: RoHS

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
CAT.6A Cables										
2170485	24 AWG / 4pr	7 wire	PVC	Green	PROFINET	No	0.355	9.0	59	53112220
2170484	24 AWG / 4pr	7 wire	PUR	Green	PROFINET	No	0.355	9.0	60	53112220

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.

ETHERLINE® 4 Pair: CAT.6A TORSION

Industrial Ethernet Cable for Torsion Stress



ETHERLINE® 4 Pair: CAT.6A TORSION is the first industrial Ethernet cable that 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: Green PVC or polyurethane

Recommended Applications

High-torsion stress applications; harsh industrial environments

Application Advantage

- Suitable for high-torsion stress
- Qualified for 10 Gigabit Ethernet
- Excellent EMI protection
- Oil-resistant jacket
- Conforms to PROFINET standard

Approvals





For Ethernet cordsets, see page 629









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

Similar Cables
<ul style="list-style-type: none"> • ETHERLINE® 4 Pair: CAT.6A, Continuous Flex • ETHERLINE® 2 Pair CAT.5 TORSION

Complete the Installation	
 RJ45 CAT.6A Connectors: page 257	 SKINTOP® MS-SC: page 528

Technical Data

 Minimum Bend Radius: 15 x cable diameter	 Characteristic Impedance: 100Ω ± 15Ω
 Temperature Range: - for stationary use: -40°C to +80°C - for flexible use: -10°C to +70°C	 Color Code: White/blue & blue, white/orange & orange, white/green & green, white/brown & brown
 Nominal Voltage: 125V (not for power applications)	 Approvals: RoHS

Part Number	Size / Pairs	Stranding	Jacket Material	Jacket Color	Approvals	Fast Connect	Nominal Outer Diameter (inches) (mm)		Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
CAT.6A Cables										
2170482	24 AWG/4pr	7 wire	PVC	Green	PROFINET	No	0.355	9.0	59	53112220
2170483	24 AWG/4pr	7 wire	PUR	Green	PROFINET	No	0.355	9.0	60	53112220

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.

ETHERLINE®

Industrial Ethernet Connectors & Tools

RJ45 CAT.5 Hirose TM11



Application Advantage

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

Part Number	Conductor Size	Max. Cable Outer Diameter		Standard Pack
		(inches)	(mm)	
RJ45 CAT.5 Hirose TM11				
CE6321	26 AWG	0.228	5.8	50

Approvals



Complete the Installation



Hirose
Crimp Tool:
page 259

RJ45 CAT.5 Stewart SS37



Application Advantage

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

Part Number	Conductor Size	Max. Cable Outer Diameter		Standard Pack
		(inches)	(mm)	
RJ45 CAT.5 Stewart SS37				
CE6323	26 AWG	0.255	5.7	50

Approvals



Complete the Installation



Stewart
Crimp Tool:
page 259

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

Part Number	Conductor Size	Max. Cable Outer Diameter		Standard Pack
		(inches)	(mm)	
RJ45 CAT.5e FM45				
21700540	26 - 23 AWG*	0.315	8.0	1

* 22 AWG is possible, with restrictions.

Approvals



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.

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



Part Number	Conductor Size		Max. Cable Outer Diameter		Standard Pack
	Stranded	Solid	(inches)	(mm)	
RJ45 CAT.5e for PROFINET					
21700605	27 AWG - 22 AWG (7 wire)	24 AWG - 22 AWG	0.197 - 0.354	5.0 - 9.0	10

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



Complete the Installation



Hirose
Crimp Tool:
page 259

Part Number	Conductor Size	Max. Cable Outer Diameter		Standard Pack
		(inches)	(mm)	
RJ45 CAT.6 Hirose TM21				
CE6324	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



Approvals



Part Number	Conductor Size		Color Code	Max. Cable Outer Diameter		Standard Pack
	Stranded	Solid		(inches)	(mm)	
RJ45 CAT.6A						
21700600	27 AWG - 22 AWG (7 wire)	24 AWG - 22 AWG	T568A	0.197 - 0.354	5.0 - 9.0	10
21700601	27 AWG - 22 AWG (7 wire)	24 AWG - 22 AWG	T568B	0.197 - 0.354	5.0 - 9.0	10

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 For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.

ETHERLINE®

Industrial Ethernet Connectors & Tools

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



Part Number	Description	Conductor Size		Cable Outer Diameter		Standard Pack
		Stranded	Solid	(inches)	(mm)	
RJ45 Plug						
21700630	Inclusive RJ45 Connector	27 AWG - 22 AWG (7 wire)	24 AWG - 22 AWG	0.197 - 0.355	5 - 9	1
21700631	Dust Cap	—	—	—	—	10
RJ45 Receptacle						
21700632	Inclusive RJ45 Connector acc. to T568B	27 AWG - 22 AWG (7 wire)	26 AWG - 22 AWG	0.197 - 0.355	5 - 9	1
21700633	Dust Cap	—	—	—	—	10

M 12 Field Wireable Connectors

Male



Female



Application Advantage

- Shielded design

Part Number	Number of Positions	Screw Connection	Max. Conductor Cross-section Size	Cable Diameter (mm)		Nominal Current
				Min.	Max.	
Male M12 Straight Connector, Screw Connection						
C5E201C	8	PG 9	18 AWG	6	8	4A
Female M12 Straight Connector, Screw Connection						
C5E200C	8	PG 9	18 AWG	6	8	4A

Technical Data

Temperature Range:	Max. 85°C
Nominal Voltage:	up to 60V
Nominal Current:	up to 4A
Protection:	IP67

M 12 CAT.6A Field Wireable Connectors



Technical Data

Temperature Range:	-40°C to +85°C
Nominal Voltage:	48V
Nominal Current:	0.5A
Contact Resistance:	100 mΩ

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

Part Number	Number of Positions	Coding	Conductor Size		Cable Outer Diameter	
			Stranded	Solid	(inches)	(mm)
Male M12 Straight Connector, Fast Connect						
21700602	8	X	27 - 22 AWG (7 wire)	24 - 22 AWG	0.197 - 0.382	5.0 - 9.7

Approvals



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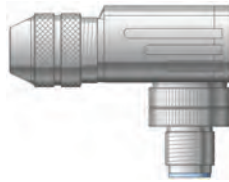
For current information go to our website. If not otherwise specified, all values relating to the product are nominal values.

M 12 Field Wireable Connectors for PROFINET

Male Straight Connector



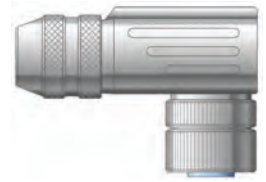
Male 90° Connector



Female Straight Connector



Female 90° Connector



Technical Data

Temperature Range: -40°C to +85°C

Nominal Current: 4A

Nominal Voltage: 250V

Application Advantage

- Quick & easy on-site assembly
- Available in straight & right angle configurations

Part Number	Description	Number of Positions	Coding	Screw Connection
Male M 12 Connectors, Fast Connect				
C5E203C	Male Straight	4	D	PG 9
C5E205C	Male 90°	4	D	PG 9
Female M 12 Connectors, Fast Connect				
C5E202C	Female Straight	4	D	PG 9
C5E204C	Female 90°	4	D	PG 9

RJ45 Crimping Tools

RJ45 Hirose



RJ45 Stewart



Approvals



Part Number	Description	Standard Pack
RJ45 Hirose		
CE5091	Crimp Tool for RJ45 Hirose Connectors: TM11/TM12, 8-pole	1
RJ45 Stewart		
CE5093	Crimp Tool for RJ45 Stewart Connectors: SS378, 8-pole	1
CE5092	Crimp Tool for RJ Plug 4-, 6-, 6-DEC, & 8-pole	1

Fast Connect Stripping Tool



Approvals



Part Number	Description	Cable Outer Diameter (inches)	Cable Outer Diameter (mm)	Standard Pack
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

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.

