

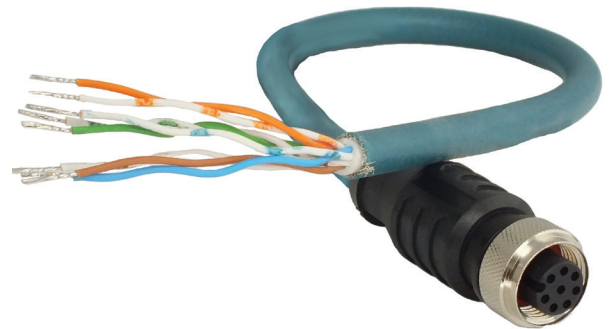
Industrial Ethernet Cordsets

Technical Data

The use of both RJ45 and M12 connectors in Ethernet network protocols is common. Our continuous flex CAT.5e & CAT.6A cables offer a unique solution toward satisfying the stringent needs of motion systems, where a network connection has been integrated for program interface from remote locations. Our product offering supports both flexing and stationary industrial Ethernet requirements.

Available Configurations

- Single-Ended Cordsets: 4 Pair
- Single-Ended Cordsets: 2 Pair
- Extension Cordsets: 4 Pair
- Extension Cordsets: 2 Pair



Technical Data

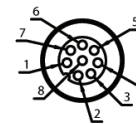
Materials:	
- Contact carrier:	
- M12:	Black thermoplastic polyurethane
- RJ45:	Polycarbonate
- Molded head:	
- M12, 8-position:	Black thermoplastic polyurethane*
- M12, 4-position D-code:	Blue-gray thermoplastic polyurethane*
- RJ45:	Black thermoplastic polyurethane*
- Contacts:	Gold-plated brass
- Coupling nut:	Nickel-plated brass
- Shield:	Copper braid or foil & copper braid
- Outer jacket:	Teal or green polyurethane
- Conductor insulation:	Polyethylene
Rated Current:	
	1.5A
Rated Voltage:	
	42V
Number of Conductors:	
- M12 D-code & RJ45 shielded:	26 - 22 AWG/2pr, stranded or solid
- M12 8-pos. & RJ45S:	26 - 22 AWG/4pr, stranded or solid
Temperature Range:	
	see specific cable catalog page
IP Protection Class:	
- M12:	Meets NEMA 1, 3, 4, 6P & IEC IP67
- RJ45:	Meets NEMA 1, 3, 4, 6P & IEC IP20
Cable Type:	
- for stationary use:	CAT.5e: ETHERLINE® 2 Pair CAT.5e, page 243 ETHERLINE® 4 Pair CAT.5e, page 250 CAT.6A: ETHERLINE® 4 Pair CAT.6A, page 253
- for continuous flex:	CAT.5e: ETHERLINE® 2 Pair CAT.5e, page 244 ETHERLINE® 4 Pair CAT.5e, page 251 CAT.6A: ETHERLINE® 4 Pair CAT.6A, page 254

* Color is typical, not standard

Pin Outs

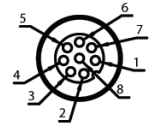
Ethernet M12 8-position, 4 Pair

Male



- 1 = White/Blue
- 2 = White/Brown
- 3 = Brown
- 4 = Orange (-TX)

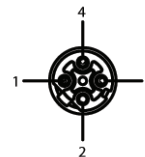
Female



- 5 = White/Green (+RX)
- 6 = White/Orange (+TX)
- 7 = Blue
- 8 = Green (-RX)

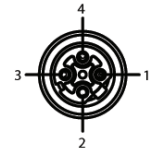
Ethernet M12 4-position D-code, 2 Pair

Male



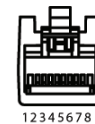
- 1 = White/Orange (+TX)
- 2 = White/Green (+RX)
- 3 = Orange (-TX)
- 4 = Green (-RX)

Female



Ethernet RJ45

RJ45 Shielded, 4 Pair



- 1 = White/Orange (+TX)
- 2 = Orange (-TX)
- 3 = White/Green (+RX)
- 4 = Blue
- 5 = White/Blue (-RX)
- 6 = Green
- 7 = White/Brown
- 8 = Brown

RJ45 Shielded, 2 Pair



- 1 = White/Orange (+TX)
- 2 = Orange (-TX)
- 3 = White/Green (+RX)
- 4 = N/C
- 5 = N/C
- 6 = Green (-RX)
- 7 = N/C

Ethernet Single-Ended Cordsets: 4 Pair CAT.5e

8-Pos. M 12 or 8-Wire RJ45 Connectors to Flying Leads

Connector 1

Male M12
Straight Connector

Male M12 Bulkhead

Female M12
Straight Connector

Female M12 Bulkhead

RJ45
Shielded Connector

ETHERLINE® 4 Pair CAT.5e

for stationary use: 2170300, page 250
for continuous flexing: 2170489, page 251

90° M12 connectors are also available.

Connector 2

Flying Leads

Connector 1	Connector 2	Stationary Cable	Continuous Flex Cable
Male M12 to Flying Leads			
Male M12 Straight	Flying Leads	C5E003S*	C5E003F*
Male M12 Bulkhead	Flying Leads	C5E010S*	C5E010F*
Female M12 Straight	Flying Leads	C5E004S*	C5E004F*
Female M12 Bulkhead	Flying Leads	C5E011S*	C5E011F*
RJ45 to Flying Leads			
RJ45 Shielded	Flying Leads	C5E002S*	C5E002F*

* Add cable length in meters to the end of the part number.

Ethernet Extension Cordsets: 4 Pair CAT.5e

8-Pos. M 12 or 8-Wire RJ45 Connectors

Connector 1

Male M12
Straight Connector

Female M12
Straight Connector

RJ45
Shielded Connector

ETHERLINE® 4 Pair CAT.5e

for stationary use: 2170300, page 250
for continuous flexing: 2170489, page 251

90° M12 connectors are also available.

Connector 2

Male M12
Straight Connector

Female M12
Straight Connector

RJ45
Shielded Connector

Connector 1	Connector 2	Stationary Cable	Continuous Flex Cable	Connector 1	Connector 2	Stationary Cable	Continuous Flex Cable
M12 to M12 Cordsets				M12 to RJ45 Cordsets			
Male M12 Straight	Male M12 Straight	C5E005S*	C5E005F*	Male M12 Straight	RJ45 Shielded	C5E008S*	C5E008F*
Male M12 Straight	Female M12 Straight	C5E007S*	C5E007F*	Female M12 Straight	RJ45 Shielded	C5E009S*	C5E009F*
Female M12 Straight	Female M12 Straight	C5E006S*	C5E006F*	RJ45 to RJ45 Cordsets			
				RJ45 Shielded	RJ45 Shielded	C5E001S*	C5E001F*



* Add cable length in meters to the end of the part number.

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.

Ethernet Single-Ended Cordsets: 2 Pair CAT.5e

4-Pos. M12 D-coded or 4-Wire RJ45 Connectors to Flying Leads

Connector 1  **ETHERLINE® 2 Pair CAT.5e**  **Connector 2**

Male M12 Straight Connector

Male M12 Bulkhead

Female M12 Straight Connector

Female M12 Bulkhead

RJ45 Shielded Connector

for stationary use: 2170284, page 243
for continuous flexing: 2170289, page 244

Flying Leads



90° M12 connectors are also available.

Connector 1	Connector 2	Stationary Cable	Continuous Flex Cable
M12 to Flying Leads			
Male M12 Straight	Flying Leads	C5E103S*	C5E103F*
Male M12 Bulkhead	Flying Leads	C5E110S*	C5E110F*
Female M12 Straight	Flying Leads	C5E104S*	C5E104F*
Female M12 Bulkhead	Flying Leads	C5E111S*	C5E111F*
RJ45 to Flying Leads			
RJ45 Shielded	Flying Leads	C5E102S*	C5E102F*

* Add cable length in meters to the end of the part number.

Ethernet Extension Cordsets: 2 Pair CAT.5e

4-Pos. M12 D-coded or 4-Wire RJ45 Connectors

Connector 1  **ETHERLINE® 2 Pair CAT.5e**  **Connector 2**

Male M12 Straight Connector

Female M12 Straight Connector

RJ45 Shielded Connector

Male M12 Straight Connector

Female M12 Straight Connector

RJ45 Shielded Connector

for stationary use: 2170284, page 243
for continuous flexing: 2170289, page 244

90° M12 connectors are also available.

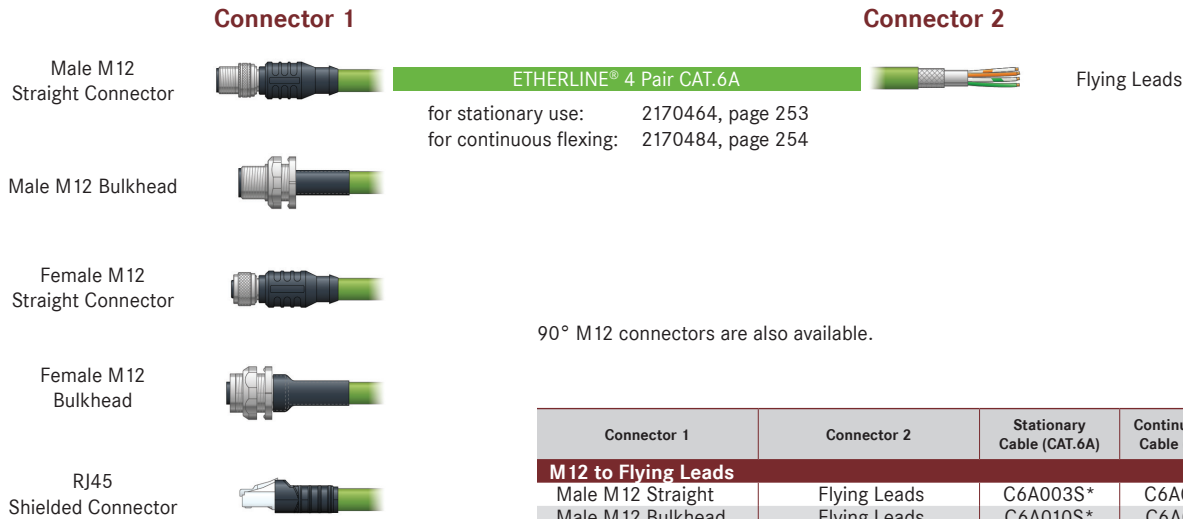
Connector 1	Connector 2	Stationary Cable	Continuous Flex Cable	Connector 1	Connector 2	Stationary Cable	Continuous Flex Cable
M12 to M12 Cordsets				M12 to RJ45 Cordsets			
Male M12 Straight	Male M12 Straight	C5E105S*	C5E105F*	Male M12 Straight	RJ45 Shielded	C5E108S*	C5E108F*
Male M12 Straight	Female M12 Straight	C5E107S*	C5E107F*	Female M12 Straight	RJ45 Shielded	C5E109S*	C5E109F*
Female M12 Straight	Female M12 Straight	C5E106S*	C5E106F*	RJ45 to RJ45 Cordsets			
				RJ45 Shielded	RJ45 Shielded	C5E101S*	C5E101F*

* Add cable length in meters to the end of the part number.

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Ethernet Single-Ended Cordsets: 4 Pair CAT.6A

8-Pos. M 12 or 8-Wire RJ45 Connectors to Flying Leads

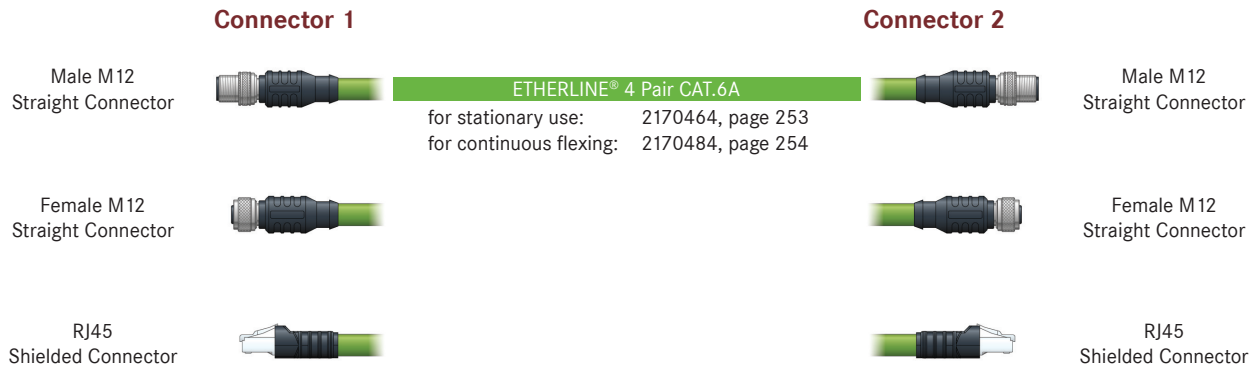


Connector 1	Connector 2	Stationary Cable (CAT.6A)	Continuous Flex Cable (CAT.6A)
M12 to Flying Leads			
Male M12 Straight	Flying Leads	C6A003S*	C6A003F*
Male M12 Bulkhead	Flying Leads	C6A010S*	C6A010F*
Female M12 Straight	Flying Leads	C6A004S*	C6A004F*
Female M12 Bulkhead	Flying Leads	C6A011S*	C6A011F*
RJ45 to Flying Leads			
RJ45 Shielded	Flying Leads	C6A002S*	C6A002F*

* Add cable length in meters to the end of the part number.

Ethernet Extension Cordsets: 4 Pair CAT.6A

8-Pos. M 12 or 8-Wire RJ45 Connectors



Connector 1	Connector 2	Stationary Cable (CAT.6A)	Continuous Flex Cable (CAT.6A)	Connector 1	Connector 2	Stationary Cable (CAT.6A)	Continuous Flex Cable (CAT.6A)
M12 to M12 Cordsets				M12 to RJ45 Cordsets			
Male M12 Straight	Male M12 Straight	C6A005S*	C6A005F*	Male M12 Straight	RJ45 Shielded	C6A008S*	C6A008F*
Male M12 Straight	Female M12 Straight	C6A007S*	C6A007F*	Female M12 Straight	RJ45 Shielded	C6A009S*	C6A009F*
Female M12 Straight	Female M12 Straight	C6A006S*	C6A006F*	RJ45 to RJ45 Cordsets			
				RJ45 Shielded	RJ45 Shielded	C6A001S*	C6A001F*

* Add cable length in meters to the end of the part number.

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