female

female

8 = blue

Industrial Ethernet cordsets



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

Available configurations

- single-ended cordsets: 4 pair
- · extension cordsets: 4 pair
- single-ended cordsets: 2 pair
- extension cordsets: 2 pair

Technical data

Material:

- contact carrier:

- M12: thermoplastic polyurethane; black - RI45: polycarbonate

- molded head:

- M12, 8-position: thermoplastic polyurethane; black* thermoplastic polyurethane; blue-gray* - M12, 4-position D-code: - RJ45: thermoplastic polyurethane; black*

gold-plated brass - contacts: - coupling nut: nickel-plated brass

- shield: copper braid or foil & copper braid

- outer jacket: polyurethane; teal or green

- conductor insulation: polyethylene

* color is typical, not standard

Temperature range: see specific cable catalog page

7 Rated voltage: 42V

- cable: 1000 (not for power applications)

 \approx Rated current: 1.5A

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

IP Protection class:

- M12: **IP67**

NEMA 1, 3, 4, 6P

- RJ45: IP20

NEMA 1

Cable type:

- for stationary use: CAT.5e: ETHERLINE® 2 pair CAT.5e, page 237

ETHERLINE® 4 pair CAT.5e, page 244 CAT.6A: ETHERLINE® 4 pair CAT.6A, page 247

CAT.5e: ETHERLINE® 2 pair CAT.5e, page 238 - continuous flex:

ETHERLINE® 4 pair CAT.5e, page 245

CAT.6A: ETHERLINE® 4 pair CAT.6A, page 248

Pin outs

Ethernet M12 8-position, 4 pair

male

5 = white/green (+RX) 1 = white/blue

2 = white/brown 6 = white/orange (+TX)

3 = brown7 = blue4 = orange (-TX) 8 = green(-RX)

Ethernet M12 X-coded, 4 pair



1 = white/orange (+TX) 5 = white/brown 2 = orange (-TX)6 = brown7 = white/blue 3 = white/green (+RX)

Ethernet M12 D-coded, 2 pair



4 = green(-RX)

female

1 = white/orange (+TX) 2 = white/green (+RX) 3 = orange (-TX)

4 = green(-RX)

Ethernet RJ45 shielded



12345678

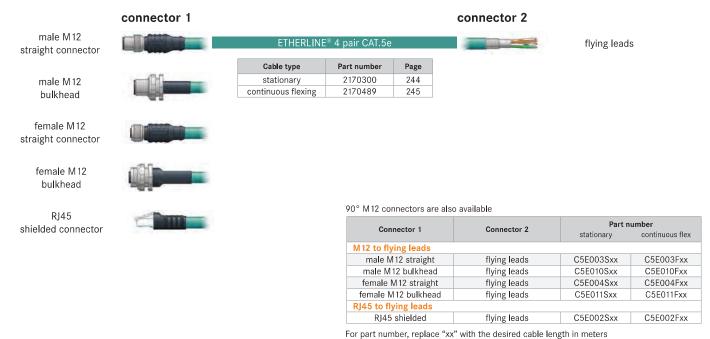
1 = white/orange (+TX) 1 = white/orange (+TX) 2 = orange(-TX)2 = orange(-TX)3 = white/green (+RX)3 = white/green (+RX)4 = N/C4 = blue5 = N/C5 = white/blue 6 = green(-RX)

6 = green(-RX)7 = white/brown 7 = N/C8 = N/C8 = brown

ÖLFLEX® CONNECT

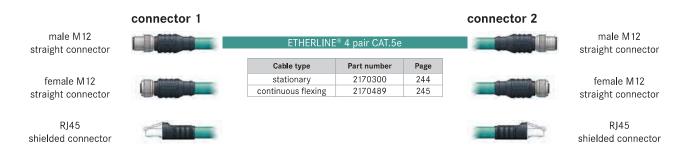
Ethernet single-ended cordsets: 4 pair CAT.5e

8-pos. M12 or 8-wire RJ45 connectors to flying leads



Ethernet extension cordsets: 4 pair CAT.5e

8-pos. M12 or 8-wire RJ45 connectors



Connector 1	Connector 2	Part number		
		stationary	continuous flex	
M12 to M12				
male M12 straight	male M12 straight	C5E005Sxx	C5E005Fxx	
male M12 straight	female M12 straight	C5E007Sxx	C5E007Fxx	
female M12 straight	female M12 straight	C5E006Sxx	C5E006Fxx	

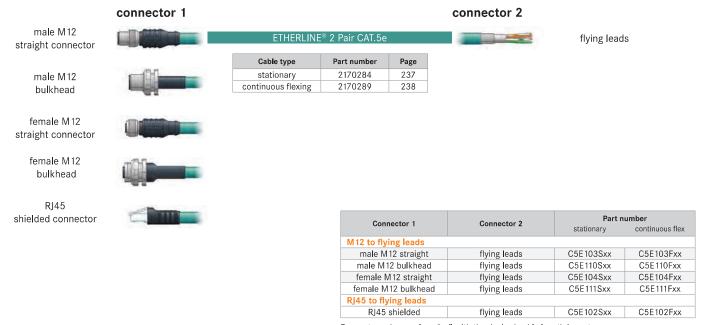
For part number, replace "xx" with the desired cable length in meters 90° M12 connectors are also available

Connector 1	Connector 2	Part number	
		stationary	continuous flex
M12 to RJ45			
male M12 straight	RJ45 shielded	C5E008Sxx	C5E008Fxx
female M12 straight	RJ45 shielded	C5E009Sxx	C5E009Fxx
RJ45 to RJ45			
RJ45 shielded	RJ45 shielded	C5E001Sxx	C5E001Fxx

Systems solutions made by LAPP

Ethernet single-ended cordsets: 2 pair CAT.5e

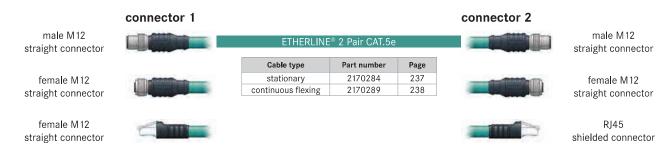
4-pos. M12 D-coded or 4-wire RJ45 connectors to flying leads



For part number, replace "xx" with the desired cable length in meters 90° M12 connectors are also available

Ethernet extension cordsets: 2 Pair CAT.5e

4-pos. M12 D-coded or 4-wire RJ45 connectors



Connector 1	Connector 2	Part number		
		stationary	continuous flex	
M12 to M12				
male M12 straight	male M12 straight	C5E105Sxx	C5E105Fxx	
male M12 straight	female M12 straight	C5E107Sxx	C5E107Fxx	
female M12 straight	female M12 straight	C5E106Sxx	C5E106Fxx	

For part number, replace "xx" with the desired cable length in meters 90° M12 connectors are also available

Connector 1	Connector 2	Part number	
		stationary	continuous flex
M12 to RJ45			
male M12 straight	RJ45 shielded	C5E108Sxx	C5E108Fxx
female M12 straight	RJ45 shielded	C5E109Sxx	C5E109Fxx
RJ45 to RJ45			
RJ45 shielded	flying leads	C5E101Sxx	C5E101Fxx