Systems solutions made by LAPP

Industrial Ethernet cordsets



The use of both RI45 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.

· single-ended cordsets: 2 pair

· extension cordsets: 2 pair

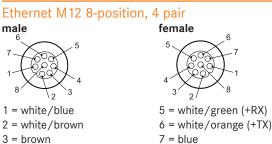
Available configurations

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

Technical data

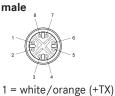
Material: - contact carrier: - M12: thermoplastic polyurethane; black - RI45: polycarbonate - molded head: - M12, 8-position: thermoplastic polyurethane; black* thermoplastic polyurethane; blue-gray* - M12, 4-position D-code: thermoplastic polyurethane; black* - RJ45: - contacts: gold-plated brass nickel-plated brass - coupling nut: copper braid or foil & copper braid - shield: - 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 - 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 - continuous flex: CAT.5e: ETHERLINE® 2 pair CAT.5e, page 238

Pin outs



8 = green(-RX)

Ethernet M12 X-coded, 4 pair



4 = orange (-TX)

2 = orange(-TX)3 = white/green (+RX)4 = green(-RX)

female



- 6 = brown
- 7 = white/blue
- 8 = blue

Ethernet M12 D-coded, 2 pair female



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

Ethernet RI45 shielded



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

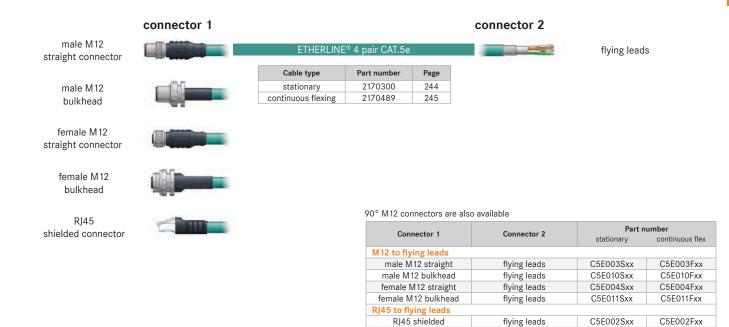
- 2 pair
- 1 = white/orange (+TX)
- 2 = orange(-TX)
- 3 = white/green (+RX)
- 4 = N/C
- 5 = N/C
- 6 = green(-RX)
- 7 = N/C
- 8 = N/C

ETHERLINE[®] 4 pair CAT.5e, page 245 CAT.6A: ETHERLINE® 4 pair CAT.6A, page 248

P Protection class:

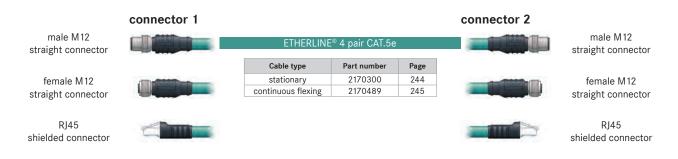
Systems solutions made by LAPP

Ethernet single-ended cordsets: 4 pair CAT.5e 8-pos. M12 or 8-wire RJ45 connectors to flying leads



For part number, replace "xx" with the desired cable length in meters

Ethernet extension cordsets: 4 pair CAT.5e 8-pos. M12 or 8-wire RJ45 connectors



Connector 1	Connector 2	Part number			
Connector I	Connector 2	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		

Connector 1	Connector 2	Part number		
Connector	Connector 2	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	

For part number, replace "xx" with the desired cable length in meters

90° M12 connectors are also available



Systems solutions made by LAPP

Industrial Ethernet & fieldbus cordsets

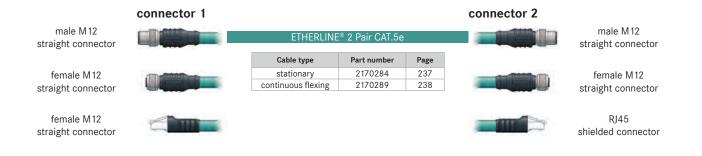
Ethernet single-ended cordsets: 2 pair CAT.5e 4-pos. M12 D-coded or 4-wire RJ45 connectors to flying leads

	connector 1				connector 2		
male M12 straight connector		ETHERLINE [®] 2 Pair CAT.5e				flying leads	
		Cable type	Part number Pa	ge			
male M12		stationary	2170284 23	37			
bulkhead		continuous flexing	2170289 23	8			
female M12 straight connector							
female M12 bulkhead							
			Connector	1	Connector 2	Part n stationary	umber continuous flex
bulkhead RJ45			Connector M 12 to flying le		Connector 2		
bulkhead RJ45				ads	Connector 2 flying leads		
bulkhead RJ45			M12 to flying le	ads aight		stationary	continuous flex
bulkhead RJ45			M12 to flying le male M12 str	ads aight khead	flying leads	stationary C5E103Sxx	continuous flex C5E103Fxx
bulkhead RJ45			M12 to flying le male M12 str male M12 bul	ads aight khead raight	flying leads flying leads	stationary C5E103Sxx C5E110Sxx	C5E103Fxx C5E110Fxx
bulkhead RJ45			M12 to flying le male M12 str male M12 bull female M12 st	ads aight khead traight Ikhead	flying leads flying leads flying leads	stationary C5E103Sxx C5E110Sxx C5E104Sxx	C5E 103Fxx C5E 103Fxx C5E 110Fxx C5E 104Fxx

90° M12 connectors are also available

Ethernet extension cordsets: 2 Pair CAT.5e

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



0	0	Part number		Connector 1	Connector 2	
Connector 1	Connector 2	stationary	continuous flex	Connector	Connector 2	
M12 to M12				M12 to RJ45		
male M12 straight	male M12 straight	C5E105Sxx	C5E105Fxx	male M12 straight	RJ45 shielded	
male M12 straight	female M12 straight	C5E107Sxx	C5E107Fxx	female M12 straight	RJ45 shielded	
female M12 straight	female M12 straight	C5E106Sxx	C5E106Fxx	RJ45 to RJ45		
For part number, replace "xx" with the desired cable length in meters				RJ45 shielded	flying leads	

For part number, replace "xx" with the desired cable length in meters

90°	M12	connectors	are	also	available	
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Part number

continuous flex

C5E108Fxx

C5E109Fxx

C5E101Fxx

stationary

C5E108Sxx

C5E109Sxx

C5E101Sxx