

PROFINET® cordsets

These pre-tested molded cordsets utilize high quality 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). Stationary cordsets offer long-lasting, reliable performance at reduced costs when continuous flexing is not required.

Available configurations

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

Technical data

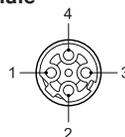
	Material:	
	- plug:	PBT (V-0 per UL 94)
	- coupling nut:	nickel-plated brass
	- shield:	foil & tinned copper braid
	- outer jacket:	polyurethane or PVC; green
	- conductor insulation:	polyethylene
	Temperature range:	see specific cable catalog page
	Rated voltage:	
	- PROFINET M12:	250V
	- PROFINET RJ45:	42V
	- cable:	(not for power applications)
	- for stationary use:	600V UL/AWM
	- for continuous flexing:	100V
	Rated current:	
	- PROFINET M12:	4A
	- PROFINET RJ45:	1.5A
	Number of conductors:	22 AWG/2pr, stranded
	IP Protection class:	
	- PROFINET M12:	IP67
	- PROFINET RJ45:	IP20
	Cable type:	
	- for stationary use:	ETHERLINE® 2 pair CAT.5, page 237
	- for continuous flexing:	ETHERLINE® 2 pair CAT.5, page 238



Pin outs

PROFINET M12 D-coded, 2 pair

male



female



- 1 = yellow (TD+)
- 2 = orange (TD-)
- 3 = white (RD+)
- 4 = blue (RD-)

PROFINET RJ45 shielded

2 pair



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

PROFINET® single-ended cordsets: 2 pair CAT.5

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

	connector 1	ETHERLINE® 2 Pair CAT.5	connector 2	
male M12 straight connector				flying leads
male M12 bulkhead				
female M12 straight connector				
female M12 bulkhead				
RJ45 shielded connector				

Cable type	Part number	Page
stationary	2170886	237
continuous flexing	2170894	238

Connector 1	Connector 2	Part number	
		stationary	continuous flex
M12 to flying leads			
male M12 straight	flying leads	CPN003Sxx	CPN003Fxx
male M12 bulkhead	flying leads	CPN010Sxx	CPN010Fxx
female M12 straight	flying leads	CPN004Sxx	CPN004Fxx
female M12 bulkhead	flying leads	CPN011Sxx	CPN011Fxx
RJ45 to flying leads			
RJ45 shielded	flying leads	CPN002Sxx	CPN002Fxx

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

PROFINET® extension cordsets: 2 pair CAT.5

4-pos. M12 or 4-wire RJ45 connectors

	connector 1	ETHERLINE® 2 Pair CAT.5	connector 2	
male M12 straight connector				male M12 straight connector
female M12 straight connector				female M12 straight connector
RJ45 shielded connector				RJ45 shielded connector

Cable type	Part number	Page
stationary	2170886	237
continuous flexing	2170894	238

Connector 1	Connector 2	Part number	
		stationary	continuous flex
M12 to M12			
male M12 straight	male M12 straight	CPN005Sxx	CPN005Fxx
male M12 straight	female M12 straight	CPN007Sxx	CPN007Fxx
female M12 straight	female M12 straight	CPN006Sxx	CPN006Fxx

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	CPN008Sxx	CPN008Fxx
female M12 straight	RJ45 shielded	CPN009Sxx	CPN009Fxx
RJ45 to RJ45			
RJ45 shielded	RJ45 shielded	CPN001Sxx	CPN001Fxx

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