

## IE-PNC-5-RJ45-3-P-2-22-FD-RJ45

**Article No.:** 2171281

Pre-assembled Ethernet cable; Cable chain, Flexible; PROFINET, ETHERNET/IP, Ethernet; PROFINET® application: Type C; Cat.5e; SF/UTP; 2x2; RJ45, Plug, Straight (180 °); RJ45, Plug, Straight (180 °); 3 m



## Details

### Benefits

- Optionally available with RJ45, M8D or M12D connector. The space-saving M8 connector is suitable for PROFINET applications in which M12D connectors cannot be used due to limited space.
- Available as a one-sided power cable assembly for flexible selection of the cable length and free choice of further connection.
- Also available as a cable assembled on both sides to save time during installation.
- Fast information exchange through Ethernet technology.
- Cat. 5e performance up to 100 Mbit/s.
- High resistance to electromagnetic interference thanks to star quad design as well as double shielding made of aluminum-laminated foil and high degree of copper shielding braiding (SF/UTP).
- The integrated vibration protection of the connector makes it resistant to shocks and vibrations.
- The angled shape of the connector is suitable for a space-saving cable outlet.
- Halogen free conductor insulation and jacket compound to meet special fire safety requirements.

### Application

- For highly flexible, continuously flexing use in moving machine parts and in the cable chain in the PROFINET network (type C).
- Also suitable for EtherCAT and EtherNET/IP applications.
- Can be used in dry and damp rooms.
- The PUR outer jacket and connectors withstand high mechanical stresses.
- The PUR outer jacket is resistant to mineral oil-based lubricants and highly resistant to chemicals.

### Notes

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

If applicable, the prices are solid metal prices without additional charges and VAT. Sales only to business customers.

Unless specified otherwise, the product values shown are rated values at room temperature. You can receive additional values, such as tolerances, upon request if they are available and have been released for publication.

### Remarks

### Technical Data

#### General information

Brand	ETHERLINE®
Product type	Pre-assembled Ethernet cable
Length	3 m
Copper index	0.21 lb/pce
Delivery Unit	1
Connector 1	RJ45; Plug; Straight; Number of contacts: 8
Connector 2	RJ45; Plug; Straight; Number of contacts: 8
valid Fieldbus or Ethernet System	PROFINET EtherCAT Ethernet ETHERNET/IP
Industry segment	Assembly Machines Construction Machinery Intralogistics & Material handling Lifts & Elevators

#### Electrical parameters

**Product design**

Cable dimension	4X
Number of cores	4
Shielded	Yes
Base material of outer sheath, shortname	PUR

**Product features**

Application area	Cable chain
PROFINET® application	Type C
Min. number of insertion cycles	750 / 750
IP protection rating	IP 20
Suitable for EX-applications	No
Ethernet cable category	Cat.5e

**Certifications and standards**

CE marking	No
EAC certified	Not required
EAC certification number	Отказное письмо № 40
UL recognized	No
UL listed	No
cUR recognized	No
cUL listed	No
CSA certified	No
VDE certified	No
DNV-certified	No
Ecolab certified	No

**ETHERLINE® PN FD Cat.5 Patchcords**

Article No.	Name	Connector 1	Connector 2	Length
2171049	IE-PNC-5-M12D-S-1-P-2-22-FD-M12D-S	M 12; Plug; Straight; D-coded; Number of contacts: 4	M 12; Plug; Straight; D-coded; Number of contacts: 4	1 m
2171050	IE-PNC-5-M12D-S-2-P-2-22-FD-M12D-S	M 12; Plug; Straight; D-coded; Number of contacts: 4	M 12; Plug; Straight; D-coded; Number of contacts: 4	2 m
2171051	IE-PNC-5-M12D-S-3-P-2-22-FD-M12D-S	M 12; Plug; Straight; D-coded; Number of contacts: 4	M 12; Plug; Straight; D-coded; Number of contacts: 4	3 m
2171052	IE-PNC-5-M12D-S-5-P-2-22-FD-M12D-S	M 12; Plug; Straight; D-coded; Number of contacts: 4	M 12; Plug; Straight; D-coded; Number of contacts: 4	5 m
2171053	IE-PNC-5-M12D-S-10-P-2-22-FD-M12D-S	M 12; Plug; Straight; D-coded; Number of contacts: 4	M 12; Plug; Straight; D-coded; Number of contacts: 4	10 m
2171054	IE-PNC-5-M12D-S-20-P-2-22-FD-M12D-S	M 12; Plug; Straight; D-coded; Number of contacts: 4	M 12; Plug; Straight; D-coded; Number of contacts: 4	20 m
2171055	IE-PNC-5-M12D-S-1-P-2-22-FD-OE	M 12; Plug; Straight; D-coded; Number of contacts: 4	Open end	1 m
2171056	IE-PNC-5-M12D-S-2-P-2-22-FD-OE	M 12; Plug; Straight; D-coded; Number of contacts: 4	Open end	2 m
2171057	IE-PNC-5-M12D-S-3-P-2-22-FD-OE	M 12; Plug; Straight; D-coded; Number of contacts: 4	Open end	3 m
2171058	IE-PNC-5-M12D-S-5-P-2-22-FD-OE	M 12; Plug; Straight; D-coded; Number of contacts: 4	Open end	5 m
2171059	IE-PNC-5-M12D-S-10-P-2-22-FD-OE	M 12; Plug; Straight; D-coded; Number of contacts: 4	Open end	10 m
2171060	IE-PNC-5-M12D-S-20-P-2-22-FD-OE	M 12; Plug; Straight; D-coded; Number of contacts: 4	Open end	20 m
2171061	IE-PNC-5-M12D-A-1-P-2-22-FD-M12D-S	M 12; Plug; Angled; D-coded; Number of contacts: 4	M 12; Plug; Straight; D-coded; Number of contacts: 4	1 m
2171062	IE-PNC-5-M12D-A-2-P-2-22-FD-M12D-S	M 12; Plug; Angled; D-coded; Number of contacts: 4	M 12; Plug; Straight; D-coded; Number of contacts: 4	2 m
2171063	IE-PNC-5-M12D-A-3-P-2-22-FD-M12D-S	M 12; Plug; Angled; D-coded; Number of contacts: 4	M 12; Plug; Straight; D-coded; Number of contacts: 4	3 m
2171064	IE-PNC-5-M12D-A-5-P-2-22-FD-M12D-S	M 12; Plug; Angled; D-coded; Number of contacts: 4	M 12; Plug; Straight; D-coded; Number of contacts: 4	5 m
2171065	IE-PNC-5-M12D-A-10-P-2-22-FD-M12D-S	M 12; Plug; Angled; D-coded; Number of contacts: 4	M 12; Plug; Straight; D-coded; Number of contacts: 4	10 m
2171066	IE-PNC-5-M12D-A-20-P-2-22-FD-M12D-S	M 12; Plug; Angled; D-coded; Number of contacts: 4	M 12; Plug; Straight; D-coded; Number of contacts: 4	20 m
2171067	IE-PNC-5-M12D-A-1-P-2-22-FD-OE	M 12; Plug; Angled; D-coded; Number of contacts: 4	Open end	1 m
2171068	IE-PNC-5-M12D-A-2-P-2-22-FD-OE	M 12; Plug; Angled; D-coded; Number of contacts: 4	Open end	2 m
2171070	IE-PNC-5-M12D-A-5-P-2-22-FD-OE	M 12; Plug; Angled; D-coded; Number of contacts: 4	Open end	5 m
2171071	IE-PNC-5-M12D-A-10-P-2-22-FD-OE	M 12; Plug; Angled; D-coded; Number of contacts: 4	Open end	10 m
2171072	IE-PNC-5-M12D-A-20-P-2-22-FD-OE	M 12; Plug; Angled; D-coded; Number of contacts: 4	Open end	20 m
2171121	IE-PNC-5-M12D-S-0,5-P-2-22-FD-M12D-S	M 12; Plug; Straight; D-coded; Number of contacts: 4	M 12; Plug; Straight; D-coded; Number of contacts: 4	0.5 m
2171122	IE-PNC-5-M12D-A-0,5-P-2-22-FD-M12D-S	M 12; Plug; Angled; D-coded; Number of contacts: 4	M 12; Plug; Straight; D-coded; Number of contacts: 4	0.5 m
2171252	IE-PNC-5-M12D-S-2-P-2-22-FD-M12DF-S	M 12; Plug; Straight; D-coded; Number of contacts: 4	M 12; Socket; Straight; D-coded; Number of contacts: 4	2 m
2171253	IE-PNC-5-M12D-S-3-P-2-22-FD-M12DF-S	M 12; Plug; Straight; D-coded; Number of contacts: 4	M 12; Socket; Straight; D-coded; Number of contacts: 4	3 m
2171254	IE-PNC-5-M12D-S-5-P-2-22-FD-M12DF-S	M 12; Plug; Straight; D-coded; Number of contacts: 4	M 12; Socket; Straight; D-coded; Number of contacts: 4	5 m
2171264	IE-PNC-5-M12D-S-0,5-P-2-22-FD-RJ45	M 12; Plug; Straight; D-coded; Number of contacts: 4	RJ45; Plug; Straight; Number of contacts: 8	0.5 m
2171265	IE-PNC-5-M12D-S-1-P-2-22-FD-RJ45	M 12; Plug; Straight; D-coded; Number of contacts: 4	RJ45; Plug; Straight; Number of contacts: 8	1 m

Article No.	Name	Connector 1	Connector 2	Length
2171266	IE-PNC-5-M12D-S-2-P-2-22-FD-RJ45	M 12; Plug; Straight; D-coded; Number of contacts: 4	RJ45; Plug; Straight; Number of contacts: 8	2 m
2171267	IE-PNC-5-M12D-S-3-P-2-22-FD-RJ45	M 12; Plug; Straight; D-coded; Number of contacts: 4	RJ45; Plug; Straight; Number of contacts: 8	3 m
2171268	IE-PNC-5-M12D-S-5-P-2-22-FD-RJ45	M 12; Plug; Straight; D-coded; Number of contacts: 4	RJ45; Plug; Straight; Number of contacts: 8	5 m
2171269	IE-PNC-5-M12D-S-10-P-2-22-FD-RJ45	M 12; Plug; Straight; D-coded; Number of contacts: 4	RJ45; Plug; Straight; Number of contacts: 8	10 m
2171270	IE-PNC-5-M12D-S-20-P-2-22-FD-RJ45	M 12; Plug; Straight; D-coded; Number of contacts: 4	RJ45; Plug; Straight; Number of contacts: 8	20 m
2171271	IE-PNC-5-M12D-A-0,5-P-2-22-FD-RJ45	M 12; Plug; Angled; D-coded; Number of contacts: 4	RJ45; Plug; Straight; Number of contacts: 8	0.5 m
2171272	IE-PNC-5-M12D-A-1-P-2-22-FD-RJ45	M 12; Plug; Angled; D-coded; Number of contacts: 4	RJ45; Plug; Straight; Number of contacts: 8	1 m
2171273	IE-PNC-5-M12D-A-2-P-2-22-FD-RJ45	M 12; Plug; Angled; D-coded; Number of contacts: 4	RJ45; Plug; Straight; Number of contacts: 8	2 m
2171274	IE-PNC-5-M12D-A-3-P-2-22-FD-RJ45	M 12; Plug; Angled; D-coded; Number of contacts: 4	RJ45; Plug; Straight; Number of contacts: 8	3 m
2171275	IE-PNC-5-M12D-A-5-P-2-22-FD-RJ45	M 12; Plug; Angled; D-coded; Number of contacts: 4	RJ45; Plug; Straight; Number of contacts: 8	5 m
2171276	IE-PNC-5-M12D-A-10-P-2-22-FD-RJ45	M 12; Plug; Angled; D-coded; Number of contacts: 4	RJ45; Plug; Straight; Number of contacts: 8	10 m
2171277	IE-PNC-5-M12D-A-20-P-2-22-FD-RJ45	M 12; Plug; Angled; D-coded; Number of contacts: 4	RJ45; Plug; Straight; Number of contacts: 8	20 m
2171278	IE-PNC-5-RJ45-0,5-P-2-22-FD-RJ45	RJ45; Plug; Straight; Number of contacts: 8	RJ45; Plug; Straight; Number of contacts: 8	0.5 m
2171279	IE-PNC-5-RJ45-1-P-2-22-FD-RJ45	RJ45; Plug; Straight; Number of contacts: 8	RJ45; Plug; Straight; Number of contacts: 8	1 m
2171280	IE-PNC-5-RJ45-2-P-2-22-FD-RJ45	RJ45; Plug; Straight; Number of contacts: 8	RJ45; Plug; Straight; Number of contacts: 8	2 m
2171281	IE-PNC-5-RJ45-3-P-2-22-FD-RJ45	RJ45; Plug; Straight; Number of contacts: 8	RJ45; Plug; Straight; Number of contacts: 8	3 m
2171282	IE-PNC-5-RJ45-5-P-2-22-FD-RJ45	RJ45; Plug; Straight; Number of contacts: 8	RJ45; Plug; Straight; Number of contacts: 8	5 m
2171283	IE-PNC-5-RJ45-10-P-2-22-FD-RJ45	RJ45; Plug; Straight; Number of contacts: 8	RJ45; Plug; Straight; Number of contacts: 8	10 m
2171284	IE-PNC-5-RJ45-20-P-2-22-FD-RJ45	RJ45; Plug; Straight; Number of contacts: 8	RJ45; Plug; Straight; Number of contacts: 8	20 m
2171285	IE-PNC-5-RJ45-0,5-P-2-22-FD-OE	RJ45; Plug; Straight; Number of contacts: 8	Open end	0.5 m
2171286	IE-PNC-5-RJ45-1-P-2-22-FD-OE	RJ45; Plug; Straight; Number of contacts: 8	Open end	1 m
2171287	IE-PNC-5-RJ45-2-P-2-22-FD-OE	RJ45; Plug; Straight; Number of contacts: 8	Open end	2 m
2171288	IE-PNC-5-RJ45-3-P-2-22-FD-OE	RJ45; Plug; Straight; Number of contacts: 8	Open end	3 m
2171289	IE-PNC-5-RJ45-5-P-2-22-FD-OE	RJ45; Plug; Straight; Number of contacts: 8	Open end	5 m
2171290	IE-PNC-5-RJ45-10-P-2-22-FD-OE	RJ45; Plug; Straight; Number of contacts: 8	Open end	10 m
2171291	IE-PNC-5-RJ45-20-P-2-22-FD-OE	RJ45; Plug; Straight; Number of contacts: 8	Open end	20 m
2171329	IE-PNC-5-M12D-S-15-P-2-22-FD-M12D-S	M 12; Plug; Straight; D-coded; Number of contacts: 4	M 12; Plug; Straight; D-coded; Number of contacts: 4	15 m
2172200	IE-PNC-5-M12D-S-7,5-P-2-22-FD-M12D-S	M 12; Plug; Straight; D-coded; Number of contacts: 4	M 12; Plug; Straight; D-coded; Number of contacts: 4	7.5 m
2172201	IE-PNC-5-M12D-S-0,5-P-2-22-FD-OE	M 12; Plug; Straight; D-coded; Number of contacts: 4	Open end	0.5 m
2172202	IE-PNC-5-M12D-S-7,5-P-2-22-FD-OE	M 12; Plug; Straight; D-coded; Number of contacts: 4	Open end	7.5 m

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Article No.	Name	Connector 1	Connector 2	Length
2172204	IE-PNC-5-M12D-A-0,5-P-2-22-FD-OE	M 12; Plug; Angled; D-coded; Number of contacts: 4	Open end	0.5 m
2172224	IE-PNC-5-M12D-S-15-P-2-22-FD-RJ45	M 12; Plug; Straight; D-coded; Number of contacts: 4	RJ45; Plug; Straight; Number of contacts: 8	15 m

V1.1