

U.I. Lapp GmbH	<b>PRODUCT INFORMATION</b>	
	<b>Industrial Ethernet PN A Patchcord M12 on free conductor end</b>	29.11.2013

Industrial Ethernet Profinet Type A, Patchcord M12, D-code, straight or angled on free conductor end, PVC; UL- approval; Cat.5 2pair



Automation



Flame-retardant



Industrial machinery and plant engineering



Mechanical resistance



Interference signals

### Info

For PROFINET applications (D-coded)

### Application range

For PROFINET applications type A  
suitable for EtherCAT and EtherNet/IP applications  
Suitable for use in industrial applications  
For indoor use

### Benefits

Non-permanent connections allow for easy change of equipment  
For directly connecting two electric components  
CAT.5-Performance  
Suitable for direct connector assembly

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### Design

Solid and bare copper conductor  
 Star quad  
 Overall screening with copper braid and plastic-laminated aluminium foil  
 Outer sheath made of PVC  
 Colour: green (based on RAL 6018)  
 Pre-assembled patchcord with a M12 connector on free conductor end  
 4 pole M12 connector with vibration protection

### Norm references / Approvals

The cable is UL/CSA-approved (CMG)  
 UL File Number: E249137

### Product features

CAT.5-Performance  
 Meets the requirements according to CAT.5e, ISO/IEC 11801 and EN 50173, Class D  
 2pair: 10/100 Mbit/s for Industrial Ethernet

### Remark

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

### Technical Data

Minimum bending radius:	During installation: 15 x outer diameter Fixed installation: 10 x outer diameter
Protection rating:	IP 67
Temperature range:	During installation: -20°C to +60°C Fixed installation: -40°C to +80°C
Characteristic impedance:	100 Ohm +- 15%

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conductor end**

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Part number	Article designation	Number of pairs and AWG per conductor	Length (m)
straight connector on free conductor end			
2171007	IE-PNA-5-M12D-S-1-Y-2-22-1-OE	2x2xAWG22	1.0
2171008	IE-PNA-5-M12D-S-2-Y-2-22-1-OE	2x2xAWG22	2.0
2171009	IE-PNA-5-M12D-S-3-Y-2-22-1-OE	2x2xAWG22	3.0
2171010	IE-PNA-5-M12D-S-5-Y-2-22-1-OE	2x2xAWG22	5.0
2171011	IE-PNA-5-M12D-S-10-Y-2-22-1-OE	2x2xAWG22	10.0
2171012	IE-PNA-5-M12D-S-20-Y-2-22-1-OE	2x2xAWG22	20.0
Angled connector on free conductor end			
2171019	IE-PNA-5-M12D-A-1-Y-2-22-1-OE	2x2xAWG22	1.0
2171020	IE-PNA-5-M12D-A-2-Y-2-22-1-OE	2x2xAWG22	2.0
2171021	IE-PNA-5-M12D-A-3-Y-2-22-1-OE	2x2xAWG22	3.0
2171022	IE-PNA-5-M12D-A-5-Y-2-22-1-OE	2x2xAWG22	5.0
2171023	IE-PNA-5-M12D-A-10-Y-2-22-1-OE	2x2xAWG22	10.0
2171024	IE-PNA-5-M12D-A-20-Y-2-22-1-OE	2x2xAWG22	20.0