



ETHERLINE® FD CAT.6_A M12



Info

- CAT.6_A for drag chain, qualified for 10Gbit/s
- Other types are available on www.lappgroup.com/assemblyfinder or upon request

Benefits

- Non-permanent connections allow for easy change of equipment
- For directly connecting two electric components
- CAT.6_A qualified for 10Gbit/s

Application range

- For PROFINET applications type C
- Highly flexible application
- Suitable for EtherCAT and EtherNet/IP applications
- Suitable for use in industrial applications
- For indoor use

Product features

- CAT.6_A for drag chain, qualified for 10Gbit/s
- Min. 2.5 million bending cycles in the power chain
- Meets the requirements according to CAT.6_A ISO/IEC 11801 and EN 50173

Product Make-up

- 7-wire tinned stranded copper conductor
- S/FTP: copper braid as overall screening and pair screening with aluminium compound foil
- Outer sheath made of PUR
- Colour: green (based on RAL 6018)
- Pre-assembled patchcord with M12 X-coded connectors

Technical data

- ETIM** ETIM 5.0 Class-ID: EC002599
ETIM 5.0 Class-Description: Patch cord copper (twisted pair) industry
- Minimum bending radius**
Flexing: 15 x outer diameter
- Protection rating**
IP 67
- Characteristic impedance**
100 Ohm +/- 15%
- Temperature range**
Flexing: -30°C to +70°C
Fixed installation: -40°C to +80°C

Article number	Article designation	Number of pairs and AWG per conductor	Length (m)	Copper index (kg/1.000 pieces)
Straight connector on straight connector				
2172000	IE-6A-M12X-S-0,5-P-4-24-FD-M12X-S	4x2xAWG24	0,5	22
2172001	IE-6A-M12X-S-1-P-4-24-FD-M12X-S	4x2xAWG24	1	44
2172002	IE-6A-M12X-S-2-P-4-24-FD-M12X-S	4x2xAWG24	2	88
2172003	IE-6A-M12X-S-3-P-4-24-FD-M12X-S	4x2xAWG24	3	132
2172004	IE-6A-M12X-S-5-P-4-24-FD-M12X-S	4x2xAWG24	5	220
2172005	IE-6A-M12X-S-10-P-4-24-FD-M12X-S	4x2xAWG24	10	440
2172006	IE-6A-M12X-S-20-P-4-24-FD-M12X-S	4x2xAWG24	20	880
straight connector on free conductor end				
2172007	IE-6A-M12X-S-0,5-P-4-24-FD-OE	4x2xAWG24	0,5	22
2172008	IE-6A-M12X-S-1-P-4-24-FD-OE	4x2xAWG24	1	44
2172009	IE-6A-M12X-S-2-P-4-24-FD-OE	4x2xAWG24	2	88
2172010	IE-6A-M12X-S-3-P-4-24-FD-OE	4x2xAWG24	3	132
2172011	IE-6A-M12X-S-5-P-4-24-FD-OE	4x2xAWG24	5	220
2172012	IE-6A-M12X-S-10-P-4-24-FD-OE	4x2xAWG24	10	440
2172013	IE-6A-M12X-S-20-P-4-24-FD-OE	4x2xAWG24	20	880
Straight connector to straight socket				
2172028	IE-6A-M12XF-S-0,5-P-4-24-FD-M12X-S	4x2xAWG24	0,5	22
2172029	IE-6A-M12XF-S-1-P-4-24-FD-M12X-S	4x2xAWG24	1	44
2172030	IE-6A-M12XF-S-2-P-4-24-FD-M12X-S	4x2xAWG24	2	88
2172031	IE-6A-M12XF-S-3-P-4-24-FD-M12X-S	4x2xAWG24	3	132
2172032	IE-6A-M12XF-S-5-P-4-24-FD-M12X-S	4x2xAWG24	5	220
2172033	IE-6A-M12XF-S-10-P-4-24-FD-M12X-S	4x2xAWG24	10	440
2172034	IE-6A-M12XF-S-20-P-4-24-FD-M12X-S	4x2xAWG24	20	880
socket on free conductor end				
2172170	IE-6A-M12XF-S-0,5-P-4-24-FD-OE	4x2xAWG24	0,5	22
2172171	IE-6A-M12XF-S-1-P-4-24-FD-OE	4x2xAWG24	1	44
2172172	IE-6A-M12XF-S-2-P-4-24-FD-OE	4x2xAWG24	2	88
2172173	IE-6A-M12XF-S-3-P-4-24-FD-OE	4x2xAWG24	3	132
2172174	IE-6A-M12XF-S-5-P-4-24-FD-OE	4x2xAWG24	5	220
2172175	IE-6A-M12XF-S-10-P-4-24-FD-OE	4x2xAWG24	10	440
2172176	IE-6A-M12XF-S-20-P-4-24-FD-OE	4x2xAWG24	20	880

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges. Other lengths and types of connectors are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.

Accessories

- EPIC® DATA AX RJ45 Cat.6_A refer to page 462
- EPIC® DATA 90 RJ45 Cat.6_A refer to page 463
- EPIC® DATA M12X refer to page 465
- EPIC® DATA CCR FA refer to page 466



ETHERLINE® TORSION Cat.6_A M12



Info

- Industrial Ethernet Cable, 4-pair, suitable for torsion stress
- CAT.6_A qualified for 10Gbit/s
- Other types are available on www.lappgroup.com/assemblyfinder or upon request

Benefits

- Non-permanent connections allow for easy change of equipment
- For directly connecting two electric components
- CAT.6_A qualified for 10Gbit/s

Application range

- For PROFINET applications type C
- Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG)
- Suitable for EtherCAT and EtherNet/IP applications
- Suitable for use in industrial applications
- For indoor use

Product features

- Meets the requirements according to CAT.6_A, ISO/IEC 11801 and EN 50173
- Industrial Ethernet Cable, 4-pair, suitable for torsion stress

Product Make-up

- 7-wire tinned stranded copper conductor
- S/FTP: copper braid as overall screening and pair screening with aluminium compound foil
- Outer sheath made of PUR
- Colour: green (based on RAL 6018)
- Pre-assembled patchcord with M12 X-coded connectors

Technical data

	ETIM 5.0 Class-ID: EC002599 ETIM 5.0 Class-Description: Patch cord copper (twisted pair) industry
	Minimum bending radius Flexing: 15 x outer diameter
	Protection rating IP 67
	Characteristic impedance 100 Ohm +/- 15%
	Temperature range Flexing: -30°C to +70°C Fixed installation: -40°C to +80°C

Article number	Article designation	Number of pairs and AWG per conductor	Length (m)	Copper index (kg/1.000 pieces)
Straight connector on straight connector				
2172100	IE-6A-M12X-S-0,5-P-4-24-T-M12X-S	4x2xAWG24	0,5	22
2172101	IE-6A-M12X-S-1-P-4-24-T-M12X-S	4x2xAWG24	1	44
2172102	IE-6A-M12X-S-2-P-4-24-T-M12X-S	4x2xAWG24	2	88
2172103	IE-6A-M12X-S-3-P-4-24-T-M12X-S	4x2xAWG24	3	132
2172104	IE-6A-M12X-S-5-P-4-24-T-M12X-S	4x2xAWG24	5	220
2172105	IE-6A-M12X-S-10-P-4-24-T-M12X-S	4x2xAWG24	10	440
2172106	IE-6A-M12X-S-20-P-4-24-T-M12X-S	4x2xAWG24	20	880
straight connector on free conductor end				
2172107	IE-6A-M12X-S-0,5-P-4-24-T-OE	4x2xAWG24	0,5	22
2172108	IE-6A-M12X-S-1-P-4-24-T-OE	4x2xAWG24	1	44
2172109	IE-6A-M12X-S-2-P-4-24-T-OE	4x2xAWG24	2	88
2172110	IE-6A-M12X-S-3-P-4-24-T-OE	4x2xAWG24	3	132
2172111	IE-6A-M12X-S-5-P-4-24-T-OE	4x2xAWG24	5	220
2172112	IE-6A-M12X-S-10-P-4-24-T-OE	4x2xAWG24	10	440
2172113	IE-6A-M12X-S-20-P-4-24-T-OE	4x2xAWG24	20	880
Straight connector to straight socket				
2172128	IE-6A-M12XF-S-0,5-P-4-24-T-M12X-S	4x2xAWG24	0,5	22
2172129	IE-6A-M12XF-S-1-P-4-24-T-M12X-S	4x2xAWG24	1	44
2172130	IE-6A-M12XF-S-2-P-4-24-T-M12X-S	4x2xAWG24	2	88
2172131	IE-6A-M12XF-S-3-P-4-24-T-M12X-S	4x2xAWG24	3	132
2172132	IE-6A-M12XF-S-5-P-4-24-T-M12X-S	4x2xAWG24	5	220
2172133	IE-6A-M12XF-S-10-P-4-24-T-M12X-S	4x2xAWG24	10	440
2172134	IE-6A-M12XF-S-20-P-4-24-T-M12X-S	4x2xAWG24	20	880
socket on free conductor end				
2172177	IE-6A-M12XF-S-0,5-P-4-24-T-OE	4x2xAWG24	0,5	22
2172178	IE-6A-M12XF-S-1-P-4-24-T-OE	4x2xAWG24	1	44
2172179	IE-6A-M12XF-S-2-P-4-24-T-OE	4x2xAWG24	2	88
2172180	IE-6A-M12XF-S-3-P-4-24-T-OE	4x2xAWG24	3	132
2172181	IE-6A-M12XF-S-5-P-4-24-T-OE	4x2xAWG24	5	220
2172182	IE-6A-M12XF-S-10-P-4-24-T-OE	4x2xAWG24	10	440
2172183	IE-6A-M12XF-S-20-P-4-24-T-OE	4x2xAWG24	20	880

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