

ETHERLINE® TORSION Cat.6A M12

Preassembled Cat.6_A patchcords with M12 X-coded connectors for torsion applications

Industrial Ethernet Profinet Type C, Patchcord M12/M12, x-code, straight or angled, PUR

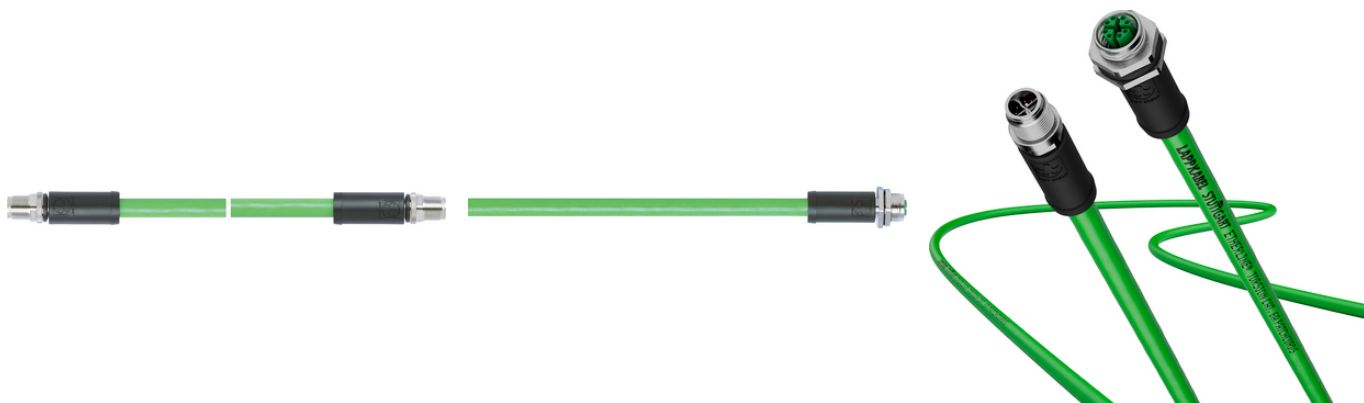
UL- approval

Cat.6A 4-pair

Info

Other sizes upon request

Based on 2170481



Supplementary automation components from Lapp



Mechanical and plant engineering



Halogen-free



Interference signals



Torsion-resistant



Torsion load



Waterproof

Benefits

Connecting cable assembled on one or on both sides saves installation time and reduces or eliminates the potential for on-site assembly errors.

Special core stranding allows rotations with torsion angles up to $\pm 180^\circ/\text{m}$. Cable successfully tested for 5 million torsion cycles. Ideal protection against electromagnetic interference thanks to pair screening with aluminium compound foil and copper braiding as

Last Update (25.04.2024)

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Product Management www.lappkabel.de

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02_03.16

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overall screening (S/FTP).

Halogen-free core insulation and sheath compound to meet special fire protection requirements.

The connector's integrated vibration protection makes it resistant to shocks and vibrations.

Application range

Cable design enables flexible, constantly flexing use under torsional stress in industrial robots and handling devices.

Also suitable for torsion applications in wind turbines.

Can be used in dry and damp environments.

PUR outer sheath withstands high mechanical loads.

PUR outer sheath is insensitive to mineral oil-based lubricants and chemically resistant in many cases

Product features

Meets the requirements according to CAT.6A, ISO/IEC 11801 and EN 50173

Industrial Ethernet Cable, 4-pair, suitable for torsion stress

Product Make-up

Braided conductor, 4x2x AWG24/7

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

Classification ETIM 5:

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

Fixed installation: 8 x outer diameter

Protection rating:

IP 67

Coding:

M12: X-Standard

Temperature range:

Flexing: -30 °C to +70 °C

Fixed installation: -30 °C to +80 °C

Note

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

Prices are net prices without VAT and surcharges. Sale to business customers only.

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Article number	Article designation	Number of pairs and AWG per conductor	Length (m)	Copper index (kg/km)
Straight connector on straight connector				
2172263	IE-6A-M12X-S-0,5-P-4-24-T-M12X-S	4 x 2 x AWG24	0.5	22
2172264	IE-6A-M12X-S-1-P-4-24-T-M12X-S	4 x 2 x AWG24	1	44
2172265	IE-6A-M12X-S-2-P-4-24-T-M12X-S	4 x 2 x AWG24	2	88
2172266	IE-6A-M12X-S-3-P-4-24-T-M12X-S	4 x 2 x AWG24	3	132
2172267	IE-6A-M12X-S-5-P-4-24-T-M12X-S	4 x 2 x AWG24	5	220
2172307	IE-6A-M12X-S-7-P-4-24-T-M12X-S	4 x 2 x AWG24	7	308
2172268	IE-6A-M12X-S-10-P-4-24-T-M12X-S	4 x 2 x AWG24	10	440
2172308	IE-6A-M12X-S-15-P-4-24-T-M12X-S	4 x 2 x AWG24	15	660
2172269	IE-6A-M12X-S-20-P-4-24-T-M12X-S	4 x 2 x AWG24	20	880
straight connector on free conductor end				
2172270	IE-6A-M12X-S-0,5-P-4-24-T-OE	4 x 2 x AWG24	0.5	22
2172271	IE-6A-M12X-S-1-P-4-24-T-OE	4 x 2 x AWG24	1	44
2172272	IE-6A-M12X-S-2-P-4-24-T-OE	4 x 2 x AWG24	2	88
2172273	IE-6A-M12X-S-3-P-4-24-T-OE	4 x 2 x AWG24	3	132
2172274	IE-6A-M12X-S-5-P-4-24-T-OE	4 x 2 x AWG24	5	220
2172309	IE-6A-M12X-S-7-P-4-24-T-OE	4 x 2 x AWG24	7	308
2172275	IE-6A-M12X-S-10-P-4-24-T-OE	4 x 2 x AWG24	10	440
2172310	IE-6A-M12X-S-15-P-4-24-T-OE	4 x 2 x AWG24	15	660
2172276	IE-6A-M12X-S-20-P-4-24-T-OE	4 x 2 x AWG24	20	880
Straight socket to straight plug				
2172277	IE-6A-M12XF-S-0,5-P-4-24-T-M12X-S	4 x 2 x AWG24	0.5	22
2172279	IE-6A-M12XF-S-2-P-4-24-T-M12X-S	4 x 2 x AWG24	2	88
2172280	IE-6A-M12XF-S-3-P-4-24-T-M12X-S	4 x 2 x AWG24	3	132
2172281	IE-6A-M12XF-S-5-P-4-24-T-M12X-S	4 x 2 x AWG24	5	220
2172311	IE-6A-M12XF-S-7-P-4-24-T-M12X-S	4 x 2 x AWG24	7	308
2172282	IE-6A-M12XF-S-10-P-4-24-T-M12X-S	4 x 2 x AWG24	10	440

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2172312	IE-6A-M12XF-S-15-P-4-24-T-M12X-S	4 x 2 x AWG24	15	660
2172283	IE-6A-M12XF-S-20-P-4-24-T-M12X-S	4 x 2 x AWG24	20	880
Straight socket to straight socket				
2172291	IE-6A-M12XF-S-0,5-P-4-24-T-M12XF-S	4 x 2 x AWG24	0.5	22
2172292	IE-6A-M12XF-S-1-P-4-24-T-M12XF-	4 x 2 x AWG24	1	44
2172293	IE-6A-M12XF-S-2-P-4-24-T-M12XF-S	4 x 2 x AWG24	2	88
2172294	IE-6A-M12XF-S-3-P-4-24-T-M12XF-S	4 x 2 x AWG24	3	132
2172295	IE-6A-M12XF-S-5-P-4-24-T-M12XF-S	4 x 2 x AWG24	5	220
2172315	IE-6A-M12XF-S-7-P-4-24-T-M12XF-S	4 x 2 x AWG24	7	308
2172296	IE-6A-M12XF-S-10-P-4-24-T-M12XF-S	4 x 2 x AWG24	10	440
2172316	IE-6A-M12XF-S-15-P-4-24-T-M12XF-S	4 x 2 x AWG24	15	660
2172297	IE-6A-M12XF-S-20-P-4-24-T-M12XF-S	4 x 2 x AWG24	20	880
straight socket on free conductor end				
2172284	IE-6A-M12XF-S-0,5-P-4-24-T-OE	4 x 2 x AWG24	0.5	22
2172285	IE-6A-M12XF-S-1-P-4-24-T-OE	4 x 2 x AWG24	1	44
2172286	IE-6A-M12XF-S-2-P-4-24-T-OE	4 x 2 x AWG24	2	88
2172288	IE-6A-M12XF-S-5-P-4-24-T-OE	4 x 2 x AWG24	5	220
2172313	IE-6A-M12XF-S-7-P-4-24-T-OE	4 x 2 x AWG24	7	308
2172314	IE-6A-M12XF-S-15-P-4-24-T-OE	4 x 2 x AWG24	15	660
2172290	IE-6A-M12XF-S-20-P-4-24-T-OE	4 x 2 x AWG24	20	880

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