

2172371	<b>DATA SHEET</b>	
Valid from: 01.12.2021	<b>IE-6A-RJ45-(L*)-P-4-26-7-OE</b>	

## Description

- Industrial Ethernet patchcords Cat.6<sub>A</sub>, shielded
- Straight RJ45-plug on free conductor end
- Based on ETHERLINE<sup>®</sup> Cat.7 FLEX (2170934)



## General characteristics

Connection method, connector	RJ45-plug
Number of pins	8
Ambient temperature	-40°C to +70°C (-40°F to 158°F)
Degree of protection	IP 20
Shielding	Shielded
Colour coding (pin assignment)	TIA/EIA-568-B
Conformity	RoHS conform REACH conform LABS free

## Variation

Data sheet also valid for variant lengths. Other lengths on request.

Article	Description	Length (L*) [m]
2172371	IE-6A-RJ45-0,5-P-4-26-7-OE	0.5
2172372	IE-6A-RJ45-1-P-4-26-7-OE	1
2172373	IE-6A-RJ45-2-P-4-26-7-OE	2
2172374	IE-6A-RJ45-3-P-4-26-7-OE	3
2172375	IE-6A-RJ45-5-P-4-26-7-OE	5
2172376	IE-6A-RJ45-7-P-4-26-7-OE	7
2172377	IE-6A-RJ45-10-P-4-26-7-OE	10
2172378	IE-6A-RJ45-15-P-4-26-7-OE	15
2172379	IE-6A-RJ45-20-P-4-26-7-OE	20

## Electrical properties

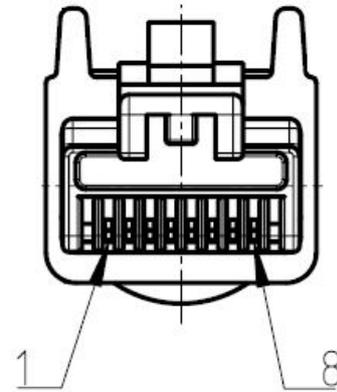
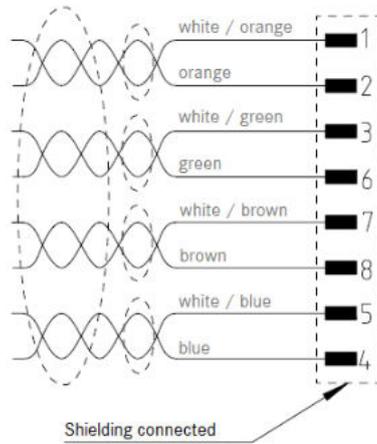
Rated voltage (max.)	50 V
Rated current at 40 °C	1 A
Pollution degree	1

## Transmission characteristics

Category (acc. ISO/IEC 11801)	6 <sub>A</sub>
-------------------------------	----------------

2172371	<b>DATA SHEET</b>	
Valid from: 01.12.2021	<b>IE-6A-RJ45-(L*)-P-4-26-7-OE</b>	

### Connector pin assignment



### Mechanical properties

#### RJ45-plug

Flammability class according to UL 94

Contact, material

Housing & insert, material

2K-boot, plug protection, material

2K-boot, bend protection, material

PC → V0

TPE → HB

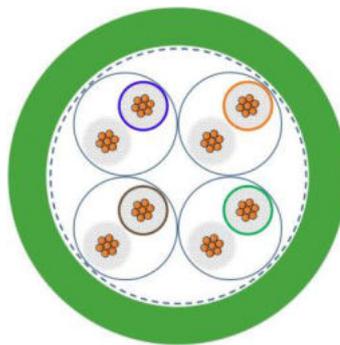
CuSn, gold plated

PC, crystal clear

TPE, black

TPE, black

### Cable (Lapp article number: 2170934)



#### Design

Certification	E63634 cRUus AWM Style 21238 80°C 600V I/II A/B acc. to UL 758 & CSA C22.2 No.210
Conductor	stranded bare copper 26/7 AWG
Insulation	polyolefin (foamed) insulation-diameter: ca. 1.0 mm
Core identification code	pair 1: white/blue, pair 2: white/orange, pair 3: white/green, pair 4: white/brown (colored ring marking on the white cores is optional)
Stranding	2 cores stranded to pair, 4 pairs stranded to bundle
Pair screen	plastic laminated aluminium foil (overlapping)
Screen	braid of tinned copper wire (coverage ca. 70 %)
Outer sheath	PUR green, similar to RAL 6018 outer diameter: ca. 6.4 mm

Creator: FELI1/FEJA1/PDP Released: IVSE1/PDP	Document: DB2172371EN Version: 04	Page 2 of 3
---	--------------------------------------	-------------

2172371	<b>DATA SHEET</b>	
Valid from: 01.12.2021	<b>IE-6A-RJ45-(L*)-P-4-26-7-OE</b>	

### Electrical properties at 20°C

Loop resistance	≤ 29 Ω/100 m	
Insulation resistance	min. 5 GΩ x km	
Mutual capacitance	nom. 46 nF/km	
Characteristic impedance	100 Ω acc. to IEC 61156-6	
Maximum operating voltage	100 V (not for power applications)	
Test voltage	core/core:	2000 V
	core/screen:	2000 V

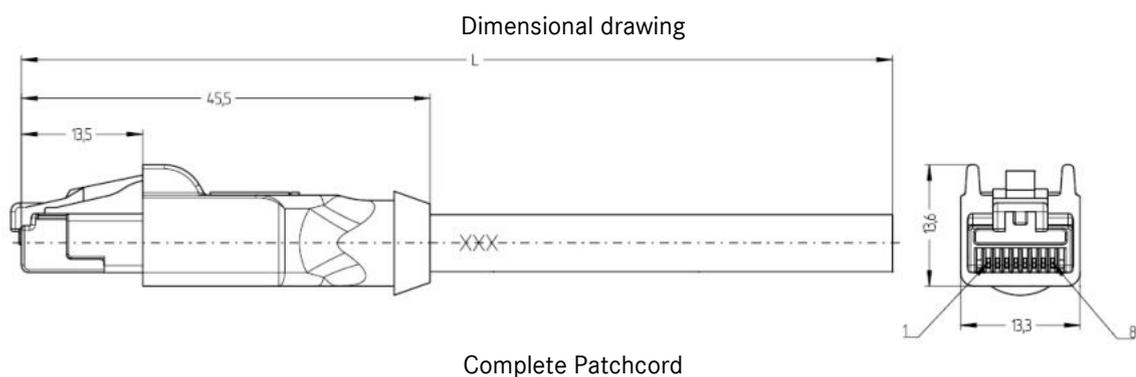
### Mechanical and thermal properties

Minimum bending radius	fixed: 4 × outer diameter
	occasional flexing: 10 × outer diameter
Temperature range	fixed: -50 °C up to +80 °C
	occasional flexing: -40 °C up to +80 °C
	UL/CSA: 80 °C
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2 HFT acc. to UL 1581 §1090
Halogen free	acc. to VDE 0472-815
UV resistance	acc. to ISO 4892-2, method A
Oil resistance	acc. to EN 50363-10-2

### Standards / Approvals

Product standard, RJ45-connector	IEC 60603-7-51
Generic cabling for customer premises – General requirements	DIN EN 50173-1 ISO/IEC 11801-1

### Technical drawing



### Certification

Certified acc. to ECE R118

### Application range

Automation, industrial machinery and plant engineering

### Note

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

Creator: FELI1/FEJA1/PDP Released: IVSE1/PDP	Document: DB2172371EN Version: 04	Page 3 of 3
---	--------------------------------------	-------------