DATA SHEET

Valid from: 01.12.2021

2172380

IE-6A-M12X-S-(L*)-P-4-26-7-RJ45



Description

- Industrial Ethernet patchcord Cat.6_A, shielded
- Straight M12-plug, x-coded and straight RJ45-plug
- Based on ETHERLINE® Cat.7 FLEX (2170934)



General characteristics

Connection method, connector M12-plug, x-coded

RJ45-plug

Number of pins

Ambient temperature -30°C to +70°C (-22°F to 158°F)

Degree of protection IP 20 (RJ45)

IP 65, IP 67 (M12, plugged and locked)

Shielded Shielded

Tightening torque 1.0 Nm (M12-connector)

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 available on request.

Article	Description	Length (L*) [m]
2172380	IE-6A-M12X-S-0,5-P-4-26-7-RJ45	0.5
2172381	IE-6A-M12X-S-1-P-4-26-7-RJ45	1
2172382	IE-6A-M12X-S-2-P-4-26-7-RJ45	2
2172383	IE-6A-M12X-S-3-P-4-26-7-RJ45	3
2172384	IE-6A-M12X-S-5-P-4-26-7-RJ45	5
2172385	IE-6A-M12X-S-7-P-4-26-7-RJ45	7
2172386	IE-6A-M12X-S-10-P-4-26-7-RJ45	10
2172387	IE-6A-M12X-S-15-P-4-26-7-RJ45	15
2172388	IE-6A-M12X-S-20-P-4-26-7-RJ45	20

Electrical properties

Rated voltage (max.) 50 V Rated current at 40 °C 0.5 A Pollution degree 1 (RJ45)

3 (M12, plugged and locked)

Transmission characteristics

Category (acc. ISO/IEC 11801) 6_A

Creator: FELI1/FEJA1/PDP	Document: DB2172380EN	Page 1 of 4
Released: IVSE1/PDP	Version: 04	Page 1 of 4

2172380

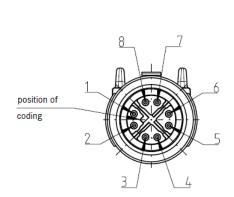
DATA SHEET

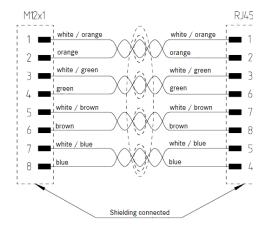
Valid from: 01.12.2021

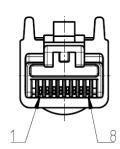
IE-6A-M12X-S-(L*)-P-4-26-7-RJ45



Connector pin assignment







Mechanical properties

M12-plug

Flammability class according to UL 94 Contact, material Contact carrier, material Housing, material Knurl, material Handle, material

RJ45-plug

Flammability class according to UL 94

Contact, material Housing & insert, material 2K-boot, plug protection, material 2K-boot, bend protection, material TPU → HB CuNi, gold plated TPU, nature Cu, nickel plated Cu, nickel plated TPU, black

PC → V0
TPE → HB
CuSn, gold plated
PC, crystal clear
TPE, black
TPE, black

2172380

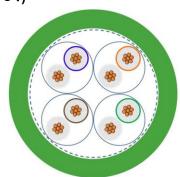
DATA SHEET

Valid from: 01.12.2021

IE-6A-M12X-S-(L*)-P-4-26-7-RJ45



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

Electrical properties at 20°C

Characteristic impedance 100Ω acc. to IEC 61156-6

Maximum operating voltage 100 V (not for power applications)

Test voltage core/core: 2000 V core/screen: 2000 V

core/scr

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

Creator: FELI1/FEJA1/PDP	Document: DB2172380EN	Page 2 of 4
Released: IVSE1/PDP	Version: 04	Page 3 of 4

2172380

DATA SHEET

Valid from: 01.12.2021

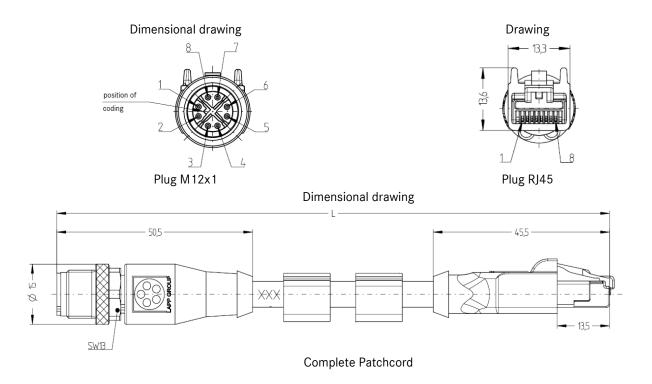
IE-6A-M12X-S-(L*)-P-4-26-7-RJ45



Standards / Approvals

Product standard, RJ45-connector IEC 60603-7-51
Product standard, M12-connector IEC 61076-2-109
Generic cabling for customer premises – General requirements 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.