

# Electronic Links International, Inc.

*Interconnecting Components and Systems*

***Marketing, Engineering, Manufacturing, and Sales of  
Electronic Components in Copper and Fiber Optics***

**ElectronicLinks**  
international inc

ELECTRONIC LINKS  
INTERNATIONAL, INC.  
CATALOG 2026



- INDUSTRIAL AUTOMATION/ROBOTICS
- MEDICAL
- OPTICAL: PLASTIC/GLASS/HIBRID
- AUTOMOTIVE: EV CHARGERS/CABLE ASSEMBLIES
- AVIONICS/MILITARY
- HOME NETWORKING/FTTH
- ARTIFICIAL INTELLIGENCE (AI)

[www.electronic-links.com](http://www.electronic-links.com)

**HEADQUARTERS USA:** 59 Court Street, 2nd Floor, Binghamton, NY  
13901

**OTHER LOCATIONS:** - Canada - China - Germany - Italy - Mexico  
-Taiwan

Drawings, specs, test reports, available on request



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## **HISTORY**

Electronic Links International, Inc. was founded in 2002 by an industry executive with more than twenty-five years of experience in engineering, marketing, and sales of electrical components. Our team includes engineers and professionals from major global electronic OEMs, bringing expertise that spans materials science, electrical behavior, and product development.

We apply advanced analytical and scientific tools to deliver optimal design and manufacturing solutions for our components. All products are developed in accordance with the latest international standards and industry advancements.

## **SCOPE**

We design, manufacture, export, and supply electrical connectors and cable assemblies in both copper and fiber-optic technologies, along with a range of complementary electronic components. Our mission is to provide high-quality products promptly, meeting performance requirements while maintaining competitive pricing.

## **LOCATION**

Our world headquarters is located in the United States, with European headquarters in Milan, Italy. Manufacturing facilities operate across the United States, Italy, and Asia, enabling efficient global production and distribution.

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## **MACHINE VISION CABLES**

Electronic Links International, Inc. [www.electronic-links.com](http://www.electronic-links.com) a company member of the AIA (Association for Advancing Automation) [www.automate.org](http://www.automate.org) has available all the necessary cable assembling to support this technology. Contacts sales for drawings, specs, samples, quotations. These cables are:

- **USB 3.0 Cables**
- **GigE Cables**
- **IEEE 1394b Cables**
- **Camera Link Cables**
- **CoaXPress Cables**
- **CCD Cables**



In addition, other solutions in copper, glass, and plastic fiber are available.

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# **USB CABLE ASSEMBLIES**



- **USB 2.0 Cable**
- **USB 3.0 Cable**
- **USB C Cable**
- **USB 3.2 Waterproof Cable**

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## **USB 3.1 C to C AOC Data Only**

1. SCDS-3120 series
2. Can support 10 Gbps super speed
3. Meets USB3.1 standard
4. Downward compatible with USB2.0/1.1
5. Hybrid copper and fiber cable
6. From .2 to 15 meters



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## **USB 3.2 Gen 2 Full-Featured AOC Cable**

**(With DP and ALT mode)**

1. SCFC-3420 series
2. Support DP 4 lanes, 8K@30Hz, video transmission
3. support USB 3.1 Gen 2 10Gbps data transmission
4. Support backward compatible with USB 2.0/1.1
5. Support PD 60W(20V 3A) power delivery
6. Support customized lengths from 1m, 2m, 3m, 5m, 7.5m, 8m, 10m and 15m
7. Support 2-lane DP1.4&USB3.2 10Gbps



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## Armored HDMI 2.0 AOC

1. SAHC series
2. Support 4K@60Hz, 18Gbps
3. Max to 100m long
4. Cable OD: 5.8mm
5. TPU jacket, 304 stainless steel reinforced cable
6. with accessories of water proof head and mobile reel are available for your choice
7. Length (M): From 5 to 100 meters



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## **USB 3.0 A to Micro B Active Optical Cable**

1. PVC Jacket / SUMB series
2. HF wire / SSMB series
3. Do not downward compatible with USB 2.0
4. Support 10 Gbps
5. Operates with USB 3.0 super speed host controllers
6. Supports all major operating systems including Windows, Mac OS, and Linux
7. From 5 up to 20 meters



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## **M Series Connector**

### **FEATURES**

- **Waterproof M5 / M8 / M12 Male & Female Connector.**
- **Environment protection IP67.**
- **Compliant with the RoHS Directive.**
- **Vibration intensity 10 to 500 Hz and 0.35 mm or 50 m/s<sup>2</sup> (5g)**
- **Current capacity up to 16 A**
- **Mechanical shock 61076-2-XXX is 490 m/s<sup>2</sup> (50g)**

### **APPLICATIONS**

- **Heavy machineries**
- **Industrial automation**
- **Sensors**
- **Electric auto bike**
- **IP CCTV camera**
- **Military communications**
- **Industrial Computer (IPC)**



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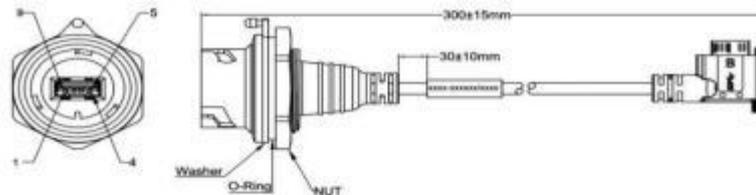
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## USB 3.0 WATERPROOF SOLUTION FOR THE VISION MARKET

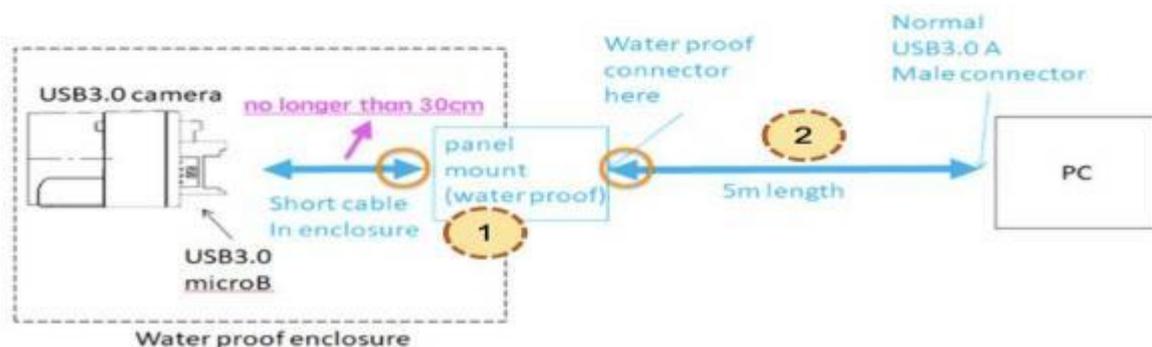
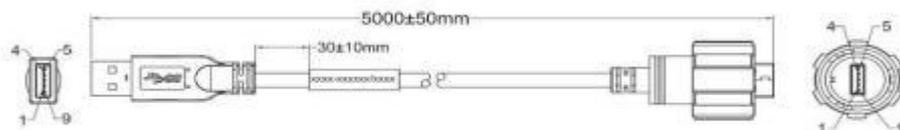
Up to 5 meters in lengths with two cable solutions:

- a. High flex cable were the system is in need to move
- b. Static cable for were the cable is fix

- #1: USB 3.0 waterproof Std.A/female to microB cable



- #2: USB 3.0 Std.A to Waterproof Std.A cable



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## **(USB4.0 COPPER CABLES (PASSIVE & ACTIVE))**

- Bandwidth: 40Gbps – 0.8M, 1M, 2M, 3M
- Bandwidth: 20Gbps – 5M
- Wire type: Coax
- Connectors type: USB C
- The passive type up to 1 meter has no IC integrated
- The active type up to 5 meters has the IC integrated
- Support USB4 Gen/2Gen3 full duplex high speed transmission
- Support DP1.4, 4 lane Display Port video signal transmission, DP alternative mode



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## **Thunderbolt 3 / ACTIVE OPTICAL CABLE (40 Gb/s)**

### **GENERAL INFORMATION**

- **USB Type C connector**
- **RoHS 3**
- **Recommends using only Thunderbolt 3 optical cables with macOS**
- **Does not provide bus power**

### **ORDERING PART NUMBERS**

- **TB3-005**                      **Thunderbolt 3 USB-C Optical Cable, 5 meters**
- **TB3-010**                      **Thunderbolt 3 USB-C Optical Cable, 10 meters**
- **TB3-015**                      **Thunderbolt 3 USB-C Optical Cable, 15 meters**
- **TB3-025**                      **Thunderbolt 3 USB-CO Optical Cable, 25 meters**
- **TB3-050**                      **Thunderbolt 3 USB-C ptical Cable, 50 meters**



Note: Thunderbolt and Thunderbolt logo area trademark of Intel Corp. U.S. and/or other countries.  
macOS is a trademark of Apple, Inc. registered in the U.S. and other countries.

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## **Thunderbolt™ 4 (40Gbps) Passive Cable 0.5M, 0.7M, 0.8M, 1.0M**

### **General Specification**

- **Length: 0.5-meter / 0.7-meter / 0.8-meter / 1.0-meter**
- **Connector: Type-C connector or compatible**
- **Color: Black**
- **P/N: TPALLL-EB2**



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## **Thunderbolt™ 5 (80 to 120 Gbps) Passive EPR Cable**

### **General Specification:**

- **Length: 0.3 meter/0.5 meter/0.8 meter/ 1.0 meter**
- **Connector: Type C or compatible**
- **Color: Black/white**
- **P/N: TPCLL-EHQ**

### **Thunderbolt Gen2/Gen3/Gen4/Gen5 full duplex operation**

The Thunderbolt 5 passive cable provides a robust solution designed to meet the performance, power delivery, and quality required of certified Thunderbolt. Fully interoperable with Thunderbolt 5 PC and Devices,

Thunderbolt 5 will deliver 80Gbps of bi-directional bandwidth, and bandwidth boost it provides up to 120Gbps for the best display experience.



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## **Thunderbolt™4 Active LRD Cable, 40Gbps**

### **General Specification**

**Length: 1.5 meter / 2.0 meter.**  
**Connector: Type-C connector or compatible.**  
**Color: Black / White**  
**P/N: TAALLL-E60**

**Thunderbolt: 2-channel Thunderbolt Gen2 or Thunderbolt Gen3 full duplex operation.**  
**DP: DP1.4, 4-lane DisplayPort video signal transmission, DP alternate mode (MFDP).**  
**USB: 1-CH USB2.0 half duplex operation.**  
**1- CH USB3.2 Gen1 or Gen2 full duplex operation.**  
**2- 2-CH USB3.2Gen2 full duplex operation.**

USB4 Gen2/Gne3 full duplex operation.



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## DP 1.4 Type C AOC Manual



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The ELII DP 1.4 AOC is our new Audio/Video cable, designed for high-definition signal transmission using optical fiber. This cable not only supports lengths exceeding 100 meters but also ensures a more stable signal quality with no EMI interference. It boasts an impressive 8.1Gbps bandwidth per channel and supports 8K resolution, fully compliant with the DP1.4 standard. This mature and competitive solution is perfect for the high-speed data transmission market. The optical fiber cable is compatible with computers featuring USB Type-C interfaces, outdoor displays, LED signboards on streets and in stadiums, and security systems that require audio and video signal transfer.

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## **TRANSCEIVER QSFP28 Active Optical Cable 100 Gbps**

- Four Full-Duplex Lanes
- Data rate up to 25.78125 Gbps/lane
- Hot-Pluggable Interface
- Low latency, low weight, and low power consumption
- Compliant with SFF-8636, SFF-8679, SFF-8662, SFF- 8663, IEEE802.3bm
- EMI performance match FCC class B
- BER better than 10 minus 12
- Storage, Network, Server, NIC switch
- Low cost AOC solution
- Lengths from 3 meters to 30 meters

Part number	Lengths in meters
EDC003	3 meters
EDC005	5 meters
EDC010	10 meters
EDC020	20 meters
EDC030	30 meters



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**TRANSCEIVERS & LC MPO MATING CABLE ASSEMBLIES**

**SFP - SFP+ - XFP - QSFP+ - 25G - 100G - AOC - DAC**



A family of transceivers and mating cable assemblies. Ranging from 10G SFP+ to 20 Km, to 25 G to 10Km, to 25 G up to 40 Km, to 10G copper RJ45 optical transceiver and more. With LC duplex connectors and MPO connectors.

AOC	With AOC cable and One Side with LC duplex connectors
SFP+_SFP+	10G,LSZH,1m-150m,OM2
SFP+_SFP+	10G,LSZH,1m-150m,OM3
SFP28_SFP28	25G,LSZH,1m-150m,OM3-150
QSFP+_QSFP+	40G,LSZH,1m-150m,OM3-150
QSFP+_4*SFP+	40G_4*10G,LSZH,1m-150m,OM3-150,分支 0.5m
QSFP28_QSFP28	100G,LSZH,1m-150m,OM3-150
QSFP28_4*SFP28	100G_4*25G,LSZH,1m-150m,OM3-300,分支 0.5m
QSFP56_QSFP56	200G,LSZH,1m-150m,OM3-300
QSFP56_2*QSFP56	200G_2*100G,LSZH,1m,OM3-300,分支 0.5m
QSFP-DD_QSFP-DD	400G,LSZH,1m-150m,OM3-300
OSFP_OSFP	400G,LSZH,1m-150m,
OSFP_2*QSFP56	400G_2*200G,LSZH,1m-150m,
QSFP-DD_QSFP-DD	800G,LSZH,1m-150m,
OSFP_OSFP	800G,LSZH,1m-150m,
OSFP_2*OSFP	800G_2*400G,LSZH,1m-150m,

**TRANSCEIVERS & LC, MPO MATING CABLE ASSEMBLIES (continuing)**

AOC	With MPO connectors
QSFP28-100G-PSM4	100G QSFP28 PSM4 10KM (1310 MPO )
QSFP112-400G-SR4	4*106G QSFP SR4 850nm 60M (MPO12 APC)
OSFP112-400G-SR4	4*106G OSFP SR4 850nm 60M (MPO12 APC)
QSFP-DD-800G-SR8	8*106G QSFP-DD SR8 850nm 60M (MPO16 APC)
OSFP112-800G-SR8	8*106G OSFP SR8 850nm 60M (2*MPO12 APC)



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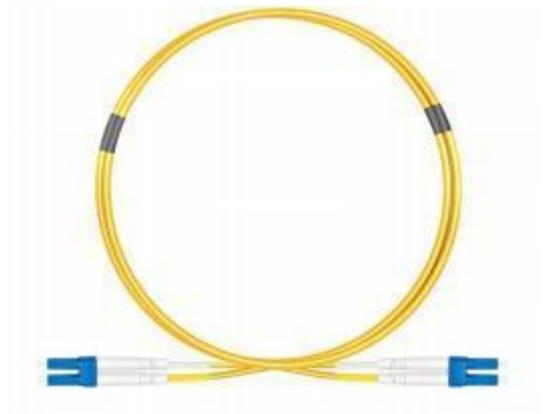
## VIDEO TRANSMISSION APPLICATIONS

40 G for 40 Km with LC- Duplex connectors

40GBASE-ER4 QSFP+1310nm 40km LC DOM Optical Transceiver Module for SMF LC-Duplex fiber connector, with maximum 40 km fiber optic connector.



40Km 40G



LC-Duplex to 40 Kms

Transceiver PN:ELII-95.240240-200 QSFP+ Singlemode Duplex, 40G, 40km,CWDM4, LC interface **LC-Duplex cable** PN:ELLI-97.550901-xxx LC/UPC-LC/UPC-SM-DX-Φ2.0mm-G652D-LSZH-xxxm- Yellow

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## VIDEO TRANSMISSION APPLICATIONS



Introducing A Family Of  
Products Specifically Designed  
For Artificial Intelligence.

They are:

- Patchcables
- Transceivers
- AOC, DAC
- MPO/MTP trunk cables
- MPO-LC Fanout cables
- MTP-LC Cassette/Module
- MPO/MTP Rackmount

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## MPO Optical Patch Cord

### Features

- MPO connector complied with IEC-61754-7
- A quick-to-deploy
- Scalable solution
- High compatibility, flexibility and system performance
- Lower installation cost

### Applications

- SAN (Storage Area Network) data center LAN
- LAN/SAN switch equipment distribution area (EDA)
- Emerging 40G and 100G protocol

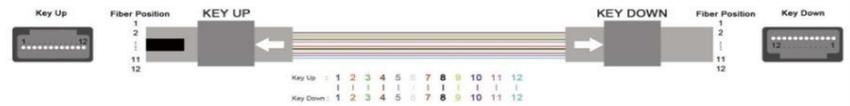


### Performance Specifications

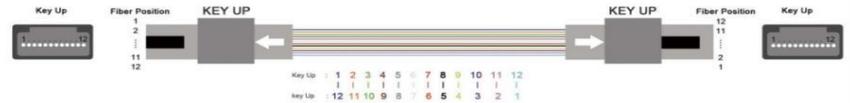
MPO Connector	Standard SM MT Ferrule		Low Loss SM MT Ferrule		Standard MM MT Ferrule	Low Loss MM MT Ferrule
	APC	PC	APC	PC	PC	PC
Polish	APC	PC	APC	PC	PC	PC
Insertion Loss (dB)	0.70	0.70	0.35	0.35	0.50	0.35
Return Loss (dB)	60	45	60	45	20	20
Exchangeability (dB)	≤ 0.3					
Tensile Strength (N)	≥ 66					
Operating Temperature (°C)	-40 ~ +85					
Storage Temperature (°C)	-40 ~ +80					

### MPO Communication Marks Division

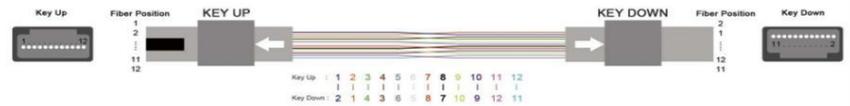
#### Polarity A: Straight Through



#### Polarity B: Cross



#### Polarity C: Cross Pair



### Ordering Information

TO						
Connector Type	Jacket Color	Fiber Type	Fiber Count	Cable Length	Cable Type	Polarity
1=MPO/APC-Female 2=MPO/UPC-Female 3=MPO/APC-Male 4=MPO/UPC-Male 5=FC/APC 6=FC/UPC 7=SC/APC 8=SC/UPC 9=LC/APC 0=LC/UPC T=ST S=Specify	1=Yellow 2=Orange 3=Aqua 4=Magenta 5=Violet 6=Red 7=White 8=Brown 9=Blue B=Black S=Specify	1=SM 9/125 G652D 2=SM 9/125 G657A 3=MM 62.5/125 OM1 4=MM 50/125 OM2 5=MM 50/125 OM3 6=MM 50/125 OM4 7=MM 50/125 OM5	1=8 2=12 3=24 4=48 5=72 6=96 7=144 S=Specify	1=0.5m 2=1.0m 3=1.5m 4=2.0m S=Specify	1=Bare-Ribbon 2=Oval 3=Round S=Specify	A=Polarity A B=Polarity B C=Polarity C

**ElectronicLinks**  
international inc

E-mail: sales@electronic-links.com  
Website : www.electronic-links.com

## **OSFP112 400G SR4 Optical transceiver for(dual MPO)flat top solution**

### **Product Specifications**

This product is a 400Gb/s OSFP112 400G SR4 optical module designed for 100m optical communication applications. The module converts 4 channels of 100Gb/s (PAM4) electrical input data to 4 channels of parallel optical signals, each capable of 100Gb/s operation for an aggregate data rate of 400Gb/s.

On the receiver side, the module converts 4 channels of parallel optical signals of 100Gb/s each channel for an aggregate data rate of 400Gb/s into 4 channels of 100Gb/s (PAM4) electrical output data.

An optical fiber cable with an single MPO-12 connector can be plugged into the OSFP112 400G SR4 module receptacle. Host FEC is required to support up to 100m fiber transmission.

### **Designed For Artificial Intelligence**

#### **Features**

- Up to 106.25 Gbps data rate per channel by PAM4 modulation
- Support 400GAUI-4 electrical interface
- Integrated 850nm VCSEL array and PD array
- DDM function implemented
- Hot-pluggable
- Single +3.3V power supply

#### **Standards**

- Compliant to OSFP MSA 5.0
- Compliant with CMIS 4.0
- 4x106.25Gb/s electrical interface (400GAUI-4)
- Maximum power consumption 9W
- Single +3.3V power supply
- Case temperature range: 0 ~ +70°C
- RoHS 2.0 complaint

#### **Applications**

- Data centers and Cloud Networks

## 12. Optical interface

The MPO-12 connectors for OSFP112 400G SR4.

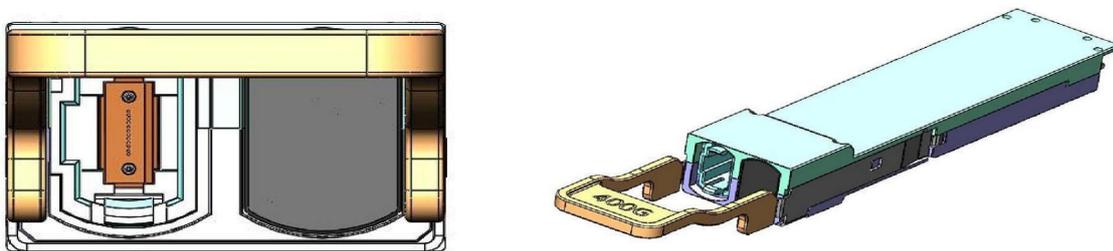


Figure 3. Optical lane assignments

## 13. Mechanical Specifications

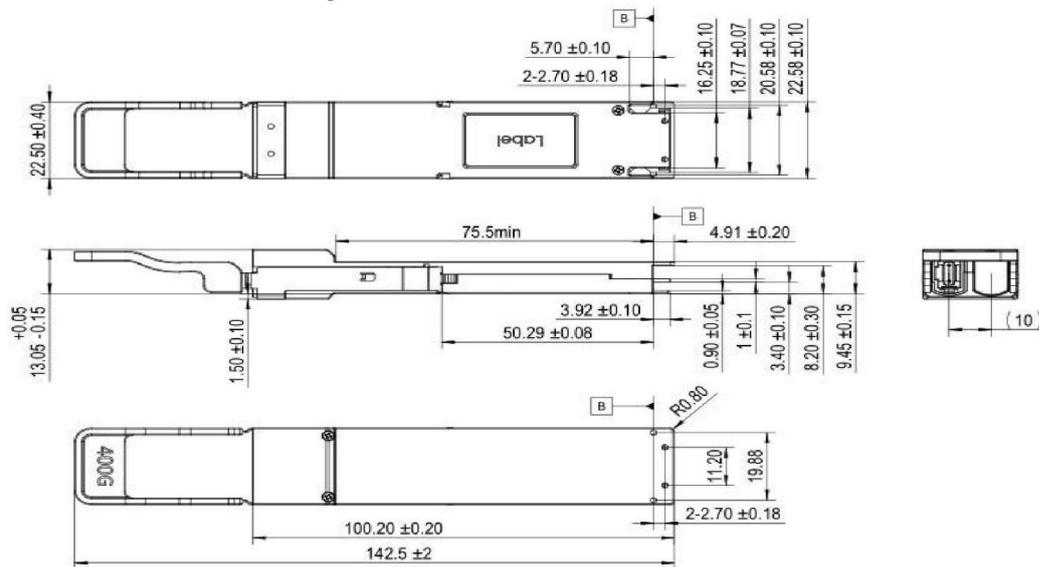
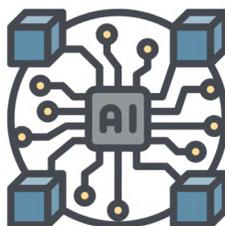


Figure 4. Mechanical Dimensions



## OSFP800 800G 2xSR4 Optical transceiver

### Product Specifications

#### Designed For Artificial Intelligence

This product is a 800Gb/s OSFP800 2xSR4 optical module designed for 100m optical communication applications. The module converts 8 channels of 100Gb/s (PAM4) electrical input data to 8 channels of parallel optical signals, each capable of 100Gb/s operation for an aggregate data rate of 800Gb/s.

On the receiver side, the module converts 8 channels of parallel optical signals of 100Gb/s each channel for an aggregate data rate of 800Gb/s into 8 channels of 100Gb/s (PAM4) electrical output data.

An optical fiber cable with dual MPO-12 connector can be plugged into the OSFP 800G SR8 module receptacle. Host FEC is required to support up to 100m fiber transmission.

#### Features

- Up to 106.25 Gbps data rate per channel by PAM4 modulation
- Support 800GAUI-8 electrical interface
- Integrated 850nm VCSEL array and PD array
- DDM function implemented
- Hot-pluggable
- Single +3.3V power supply

#### Standards

- Compliant to OSFP MSA 5.0
- Compliant with CMIS 5.1
- 8x106.25Gb/s electrical interface (800GAUI-8)
- Maximum power consumption 14W
- Single +3.3V power supply
- Case temperature range: 0 ~ +70°C
- RoHS 2.0 complaint

#### Applications

- Data centers and Cloud Networks

## 12. Optical interface

The dual MPO-12 connectors for OSFP800 2xSR4.

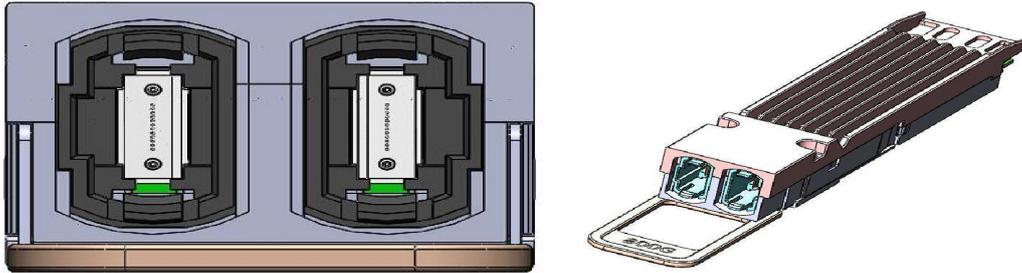


Figure 3. Optical lane assignments

## 13. Mechanical Specifications

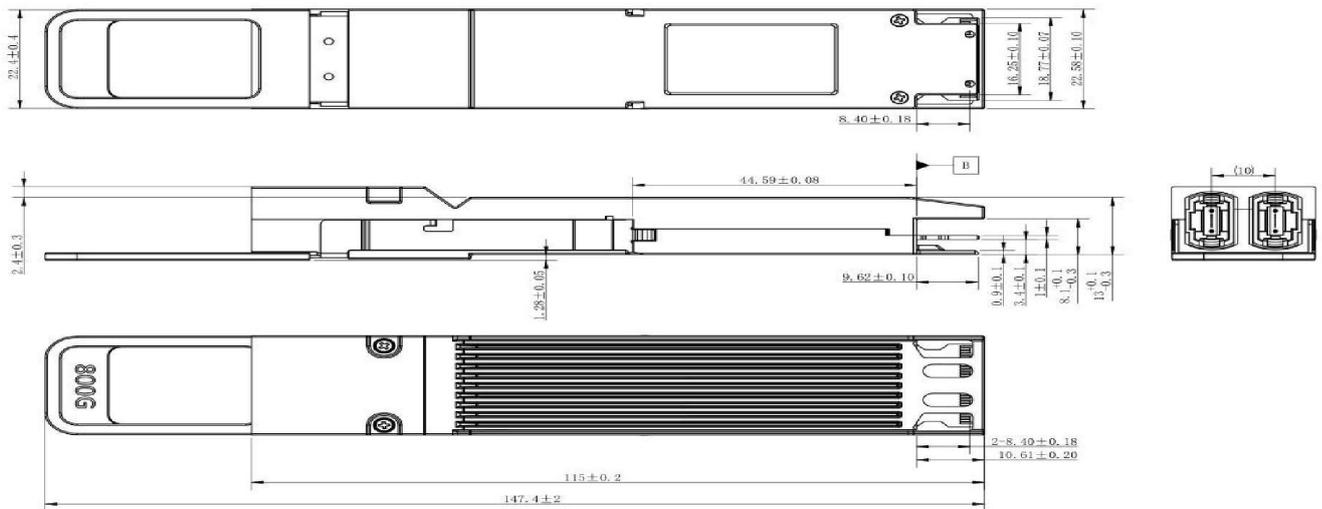
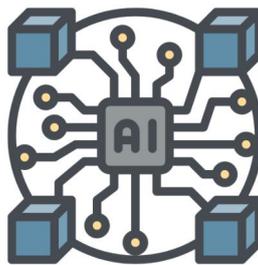


Figure 4. Mechanical Dimensions





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## **40G CoaXPRESS OVER FIBER CABLE ASSY, 300 M**

ELII, a member of the [www.automate.org](http://www.automate.org), is introducing an optical cable+trasciever capable to deliver 40G solution for the machine vision market. The cable+transceiver CoaXPRESS is registered by the JIIA (Japan Industrial Imaging Association), [www.jiia.org](http://www.jiia.org). A PlugFest is scheduled. The solution is based on a 40GBase-SR4 QSFP+850nm transceiver. The length of the cable is 300 meters. **A 400 meters solution is also available upon customer request.**

The cable assembly it meet the IEC 61300-3-35 and the RoHS 2.0 standard. The transceiver is compliant with SFF-8436 and SFF-8679, as well as the IEEE802.3ba.

We are planning on demonstrating the 300 meters solution connected to a compatible grabber board and camera in October 2024 during the Vision show in Stuttgart, Germany and in December 2024 in Yokahama, Japan. As well as at Photonics West in February 2025 in San Francisco, and Automate in May 2025 in Detroit.



**40G MPO Cable Assy, 300 meters**



**40G MPO Transceiver**



**Euresys Grabber board**

QSFP+ = Quad SFP+ = 4 x SFP+  
SFP module = Small Form-factor Pluggable module

- Compact network interface module used for data communication, for example Ethernet
- Widely used in data centers

### **Part Numbers:**

Transceiver P/N: ELII-EBS0A0 QSFP+ Multimode, 40G, 300m, 850nm, MPO interface

Transceiver P/N: ELII-EBS0A0 QSFP+ Multimode, 40G, 300m, 850nm, MTP interface (The same)

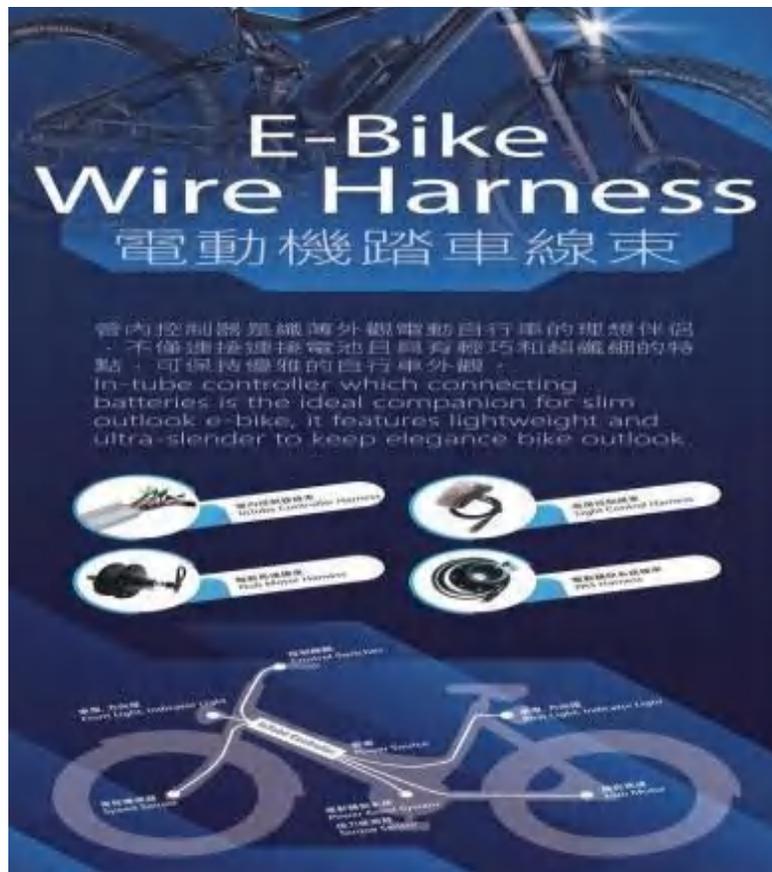
MPO to MPO Cable P/N:ELII-EBS0A1 MPO/UPC/F to MPO/UPC/F (female with B polarity, 300 meters)

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## E-Bike Wire Harness

- In tube controller harness
- Hub motor harness
- Light control harness
- PAS harness

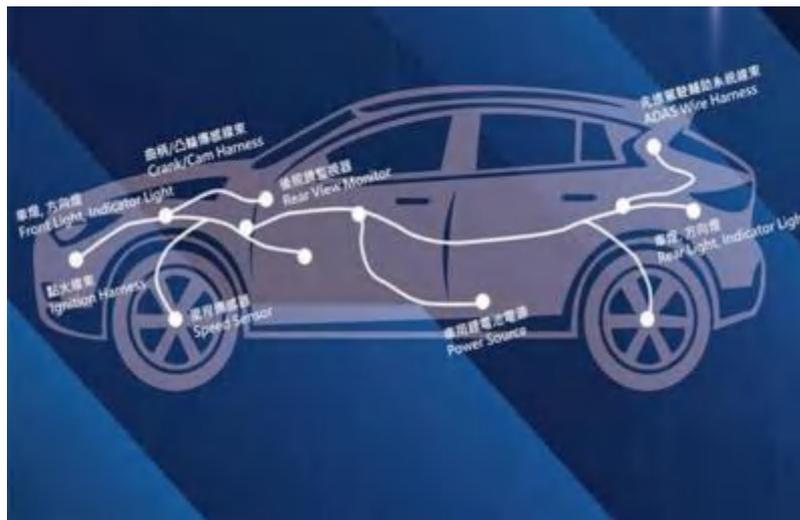


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## HARNESS FOR AUTOMOTIVE

- Crank/Cam Harness
- Front Light, Indicator Lights
- Ignition Harness
- Speed Sensor
- Rear View Monitor
- Power Source
- ADAS Wire Harness
- Rear Light, Indicator Light



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## **COPPER BOARD AND CABLE CONNECTORS**

- STANDARD USB
- MINI USB
- IEEE1394
- D SUBS
- DVI
- SATA
- RJ45
- COAX
- POGO PINS
- WIRE TO BOARD
- BOARD TO BOARD
- PIN HEADERS
- PIN SOCKETS
- SIM CARDS
- HDMI
- M8/M12
- FPC
- PCMCIA



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## **Rugged Optical ODVA Adapters and Mating Cable Assemblies**

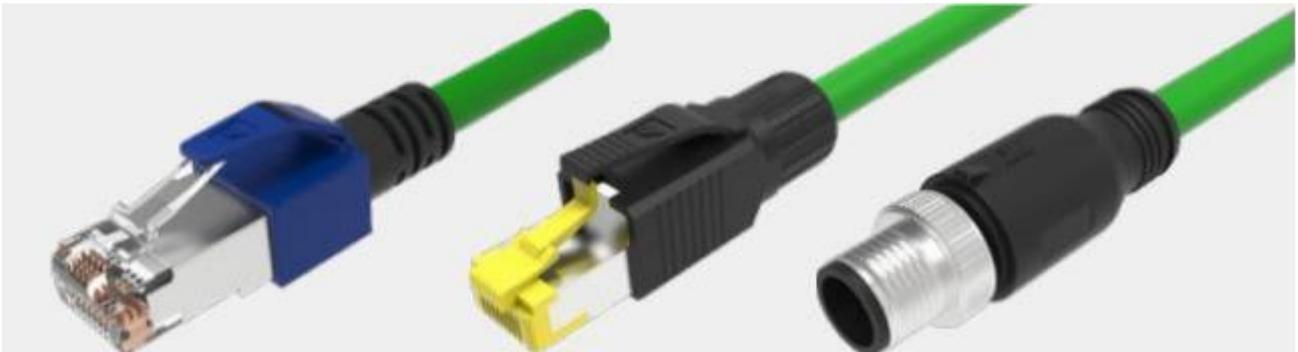


**Rugged ODVA adapter and mating cable assemblies (IP67) designed specifically for harsh environmental applications.**

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## **PROFINET CABLE ASSEMBLIES**



### **Applications:**

Designed for PROFINET protocol, used in a wide range of industrial Ethernet applications. It directly connects two electronic devices and instruments, and can be used in EtherCAT and Ethernet / IP. suitable for indoor fixed applications or occasional mobile. Features

- ◆ The flame retardant performance of the cable meet IEC60332-1
- ◆ Has excellent anti external electromagnetic interference ability
- ◆ Wear resistance, oil resistance, better performance of PUR sheath
- ◆ Long service life
- ◆ Flexible use and easy replacement of equipment
- ◆ A variety of lengths and sheath options are available

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Binghamton, NY 13901 USA

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Italy Phone: + 39.348.6578677  
[www.electronic-links.com](http://www.electronic-links.com)

---

## USB3.0 TO LC AOC

Electronic Links International, Inc. is introducing a family of USB 3.0 A to LC AOC cable assemblies. Supports **5Gbps** super-speed up to **300mmax.**



For samples, quote, additional information contact [sales@electronic-links.com](mailto:sales@electronic-links.com)

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[www.electronic-links.com](http://www.electronic-links.com)

USA - New York

CHINA - Ningbo

TAIWAN - Taipei

ITALY – Milan

- FTTP (fiber-to-the-premises)
- FTTH (fiber-to-the-home)
- FTTB (fiber-to-the-building, -business, or -basement)
- FTTD can mean two different things:(fiber-to-the-desktop or -desk)
- FTTO (fiber-to-the-office)



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## FTTH SOLUTIONS

**We offer a complete range of components for a complete FTTH installation. [Contactsales@electronic-links.com](mailto:Contactsales@electronic-links.com) for samples, quotations, and more inf.**



## **SAMPLES OF PRODUCTS OFFERINGS:**

- Pre-terminated ports
- Rack mounted PLC splitters
- Insertion ABS box module
- Cassette PLC splitters
- Block less mini fiber PLC splitters
- Fiber optic fast connectors
- Fiber optic path cords
- Armored fiber optic patch cords
- MPO patch cords
- Fiber optic adapters
- Fiber optic splice closures
- Fiber optic distribution boxes
- Fiber optic wall sockets
- 8/16 ports FTTH
- PLC splitters
- SC Adapters
- & more



**New Release**  
**SC PRE-POLISHED**

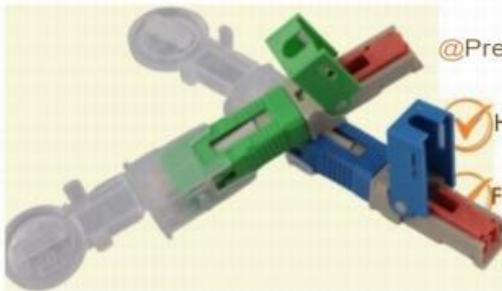
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**Fiber Optic Fast Connector**



**SC APC/UPC, Pre-polished**



@Precision metal V- groove

✓ High quality Zirconia ferrules

✓ For 2.0x3.0mm, 2.0x5.0mm cable

## IP 68 SOLUTIONS: LC-DX



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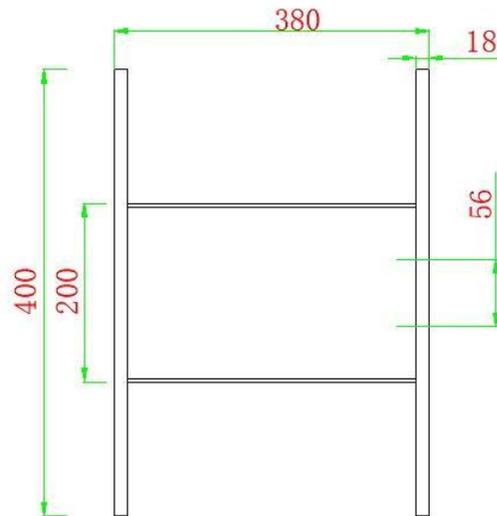
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## Outdoor Flat Drop Cable in the pull box: FTTH/FTTX



### Description

Fiber Cable Pull box 2000FT

PN Number: ELII-CPB-2000F

### Features

- Cable can be 3.0mm, 5.0mm 4.5\*8.1mm 4.5\*9.8mm
- Can be connector in the both end(SC APC, Hardened SC APC, MINI SC)
- Max Length: 3000FT

### Application

FTTH / FTTX – Indoor & outdoor drops

Single and multi-dwelling units

FTTP and campus networks

Rural broadband

DAS / FTTA

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**MIL-DTL-38999, MIL-C-26482, MIL-C-5015, MIL-C-83513 CONNECTORS AND CABLE ASSEMBLIES**

IP68 Micro Circular Connectors MIL-DTL-38999 High Reliability Meet the US military standard: MIL-DTL-38999 III series

- Quick tri-start thread coupling with anti-decoupling mechanism
- Small size, lightweight and high density
- EMI/RFI shielding
- Withstand strong vibration
- Removable crimp contact with scoop-proof design
- Withstanding high strength vibration under high temperature, and applied in harsh environment like wind, sand, moist etc..

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## PORTABLE EV CHARGERS

	EZD-POR-001-IE035		Power: 3.5kw Current: 16A, Single Phase Voltage: 230V±15%
	EZD-POR-001-IE007	Cable length: 5 meters. Material: TPU With Screen, Connector: Type 1 & Type 2 Charging time can be reserved Different Wall Plug optional	Power: 7.4kw Current: 32A, Single Phase Voltage: 230V±15%
	EZD-POR-001-IE011	RCD: Type A 30mA AC Packing size: 420 x 80 x 420 mm/3.5KG	Power: 11kw Current: 16A, Three Phase Voltage: 400V±15%
	EZD-POR-001-IE022	507 x 354 x 432 mm/5pcs/21KG	Power: 22kw Current: 32A, Three Phase Voltage: 400V±15%



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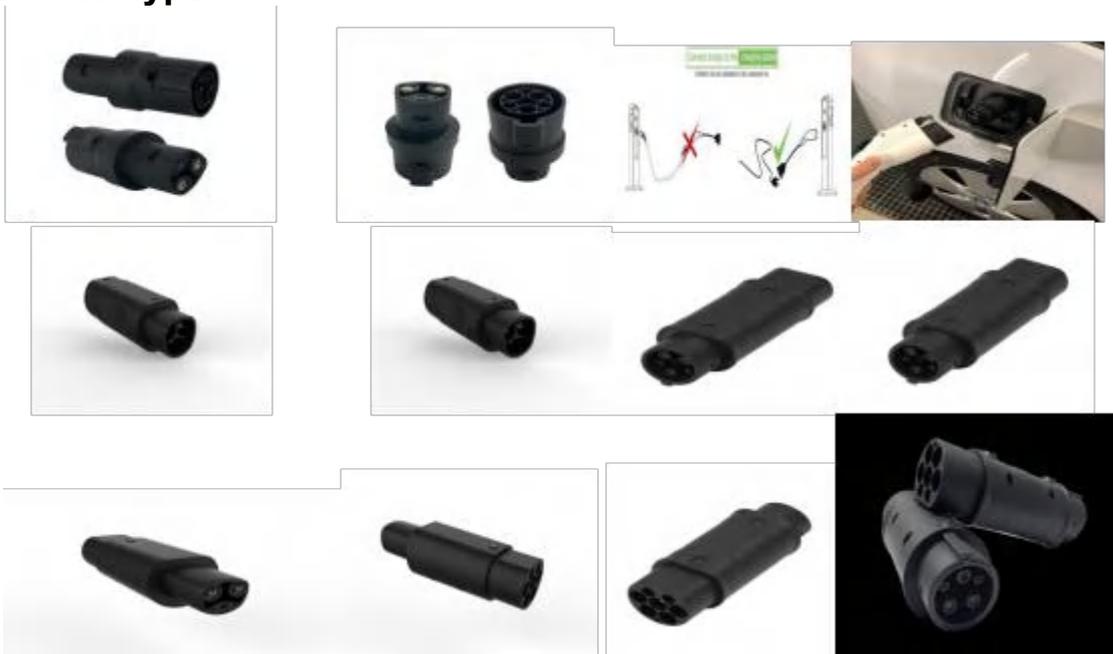
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# EV ADAPTERS

---

- J1772 to TESLA
- TESLA to J1772
- Type 1 to Type 2
- Type 2 to Type 1
- Type 2 to SCHUKO
- Type 2 to TESLA
- TESLA to Type 2



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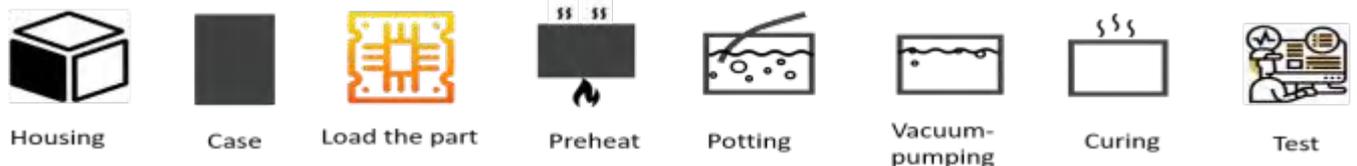
## Low Pressure Molding Solutions (LPM)



### Low Pressure Injection Molding 3 Steps



### Traditional Potting steps

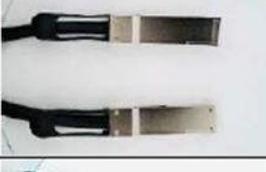
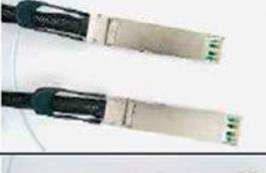


## APPLICATIONS

- IPC Industry- Industrial control- PCB encapsulation -Cable connector- Industrial Equipment Industry  
 Proximity switch - Cable connector - Coil -Motor- - Automotive Industry- TPMS - Sensor - Power socket -  
 Circuit board - Motor -Meter

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## Direct Attach Cable

Series	Product	Photo	Length (M)	Data Rate
Direct Attach Cable	10G SFP+ DAC		Up to 5M (common: 1, 2, 3)	10Gbps
	25G SFP28 DAC		Up to 5M (common: 1, 2, 3)	25Gbps
	100G QSFP28 DAC		Up to 5M (common: 1, 2, 3)	100Gbps
	200G QSFP56 DAC		Up to 3M (common: 1, 2, 3)	200Gbps
	400G QSFP-DD28 DAC		Up to 3M (common: 1, 2, 3)	400Gbps
	800G QSFP-DD112 DAC		Up to 2.5M (common: 1.5)	800Gbps
	800G OSFP112 DAC		Up to 2.5M (common: 1.5)	800Gbps
	1.6T OSFP DAC		Up to 1.0M	1.6Tbps

APPLICATION: From small to large data centers  
 Contacts [sales@electronic-links.com](mailto:sales@electronic-links.com)

## Brief Introduction

P/N: ELII-FPHD-K2104-XXX (to 300 meters)  
OEM & ODM available

This Armored Four-In-One 8K Fiber Optic HDMI Cable drum is a game-changer for long distance UHD 8K HDMI 2.1 signal transmission, especially for:

- Live events organizers
- Rental service providers
- Video producers
- Other applications where high density HDMI cables are required.



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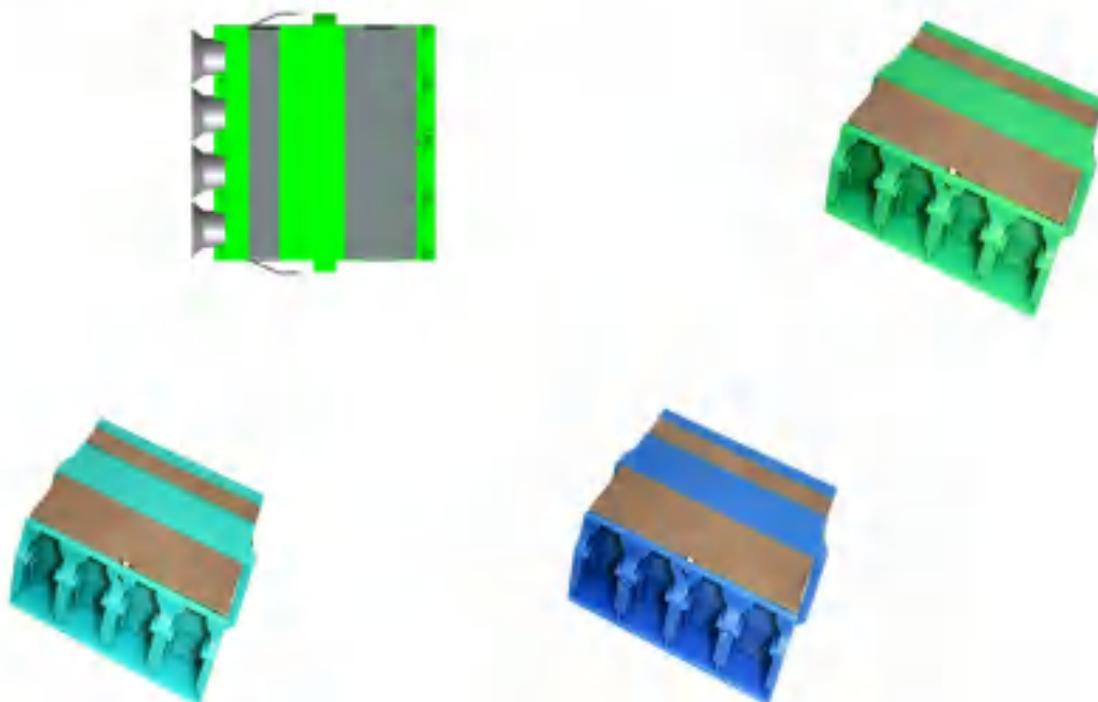
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**LC/SC ADAPTER WITH INNER SHUTTER**

**LC/SC with inner shutter adapters for high density data center solutions. LC Quad version key benefits:**

1. Dust- and laser-free protection
2. No plastic caps—greener and faster to use
3. Saves time and cost
4. Meets IEC & Telcordia GR-326 standards
5. Available Customization



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# M12 A-Code 8 Pin Male to RJ45 Male Spiral Industrial Cable Assemblies



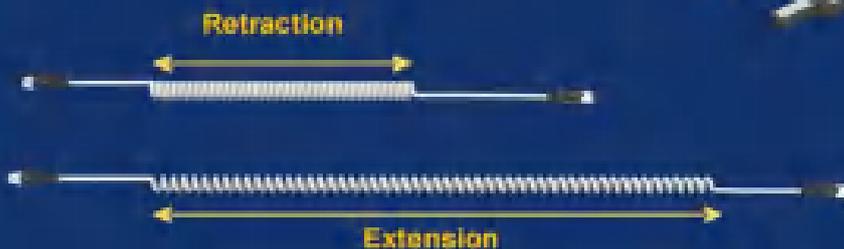
## Key Features

- ⚡ Design for industrial Ethernet and harsh environments.
- ⚡ Retractable, curly with firm coil retention & excellent memory.
- ⚡ Halogen-Free PUR jacket for chemical and abrasion resistance.
- ⚡ Coiled cable has a useful extension range of approximately 3 times the retracted length of cable.
- ⚡ Up to 10 millions of extension / retraction cycles without sacrificing electrical performance.

## Cable Diagram



Straight Cable(A): 15cm  
Coiled OD(B): 28mm  
Retracted Length of Coiled Portion(C): 0.3m ~ 0.75m  
Cable OD(D): 7.2mm



Extends or Retracts **3** times

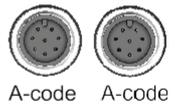
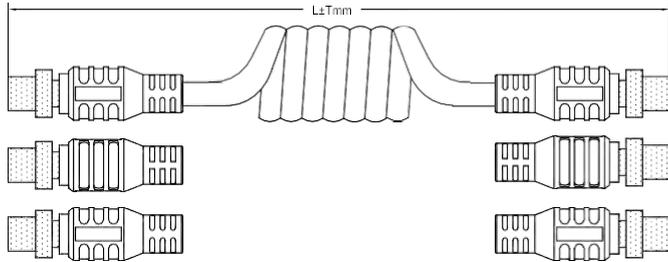
Note:  
Repeated extension beyond this upper limit length may result in permanent loss of coil memory.

# Extensive Variants for M12 A-Code 8 Pin Spiral Industrial Cable Assemblies

P/N	Product Image	Connector-1	Connector-2	Sheath
ELII-5040063-XXX		M12 A-Code 8 Pin <b>Male</b>	M12 A-Code 8 Pin <b>Male</b>	Halogen-Free PUR
ELII-5040064-XXX		M12 A-Code 8 Pin <b>Male</b>	M12 A-Code 8 Pin <b>Female</b>	Halogen-Free PUR
ELII-5040065-XXX		M12 A-Code 8 Pin <b>Male</b>	RJ45 <b>Male with dual screw</b>	Halogen-Free PUR
ELII-5040066-XXX		M12 A-Code 8 Pin <b>Male</b>	RJ45 <b>Female with dual screw</b>	Halogen-Free PUR
ELII-5040067-XXX		M12 A-Code 8 Pin <b>Female</b>	RJ45 <b>Male with dual screw</b>	Halogen-Free PUR
ELII-5040068-XXX		M12 A-Code 8 Pin <b>Male</b>	RJ45 <b>Male</b>	Halogen-Free PUR
ELII-5040069-XXX		M12 A-Code 8 Pin <b>Male</b>	RJ45 <b>Female</b>	Halogen-Free PUR
ELII-5040070-XXX		M12 A-Code 8 Pin <b>Female</b>	RJ45 <b>Male</b>	Halogen-Free PUR

### Overview

- M12 Male A to M12 Male A PUR Cable
- Head A: IP66K, IP67; Head B: IP66K, IP67
- Cable: SF/UTP 4\*[26AWG(30/0.08±0.008BC)+Non-woven fabric]+PP PORE+AL/MYLAR+BRAID(16\*9/0.10TC)+Non-woven fabric OD:Ø7.2±0.2MM PUR JACKET.



### Technical data

#### Side A

Head A: Connection	M12
Head A: Angle cable outlet	0°
Head A: Gender	Male
Head A: Coding	A
Head A: No. of poles	8
Head A: LED	No
Head A: Width across flats	SW13
Head A: Tightening torque	0.6 Nm
Head A: Knurled nut material	Zinc-pressure die casting, surface Ni
Head A: Body color	Black
Labeling sleeve side A	Yes
O-Ring:	N/A

#### Side B

Head B: Connection	M12
Head B: Angle cable outlet	0°
Head B: Gender	Male
Head B: Coding	A
Head B: No. of poles	8
Head B: LED	No
Head B: Width across flats	SW13
Head B: Tightening torque	0.6 Nm
Head B: Knurled nut material	Zinc-pressure die casting, surface Ni
Head B: Body color	Black
Labeling sleeve side B	Yes
O-Ring:	N/A

#### Cables

Shielded	Yes
Conductor structure	30 × 0.08 mm
AWG	26
External sheath: Material	PUR
External sheath: Color	/
Cable diameter	7.2±0.2mm
Wire cross section	40.7mm <sup>2</sup>

#### Electrical data

Operating voltage	max.60VDC
Nominal voltage	300 V
Contact resistance	max. 30 mOhm
Operating current per contact	max. 2 A

#### Mechanical data

Head A: Degree of protection	IP66K, IP67
Head B: Degree of protection	IP66K, IP67
Bending radius (mobile)	min.15 x outer diameter
Bending radius (fixed)	min.8 x outer diameter
Torsion supported	

#### Environmental conditions

Temperature range (mobile)	-25°C+70°C
Temperature range (fixed)	-25°C+80°C
Cable: Temperature range (fixed)	-40°C+80°C
Dragchain capable	Yes
Head A: Chemical resistance	No
Head A: Flame resistance	HB (UL 94)
Head A: Oil resistance	ASTM 1 oil, mineral oils, limited to hydraulic oils
Head A: Acid and alkali resistant	No

### Technical data

#### Environmental conditions

Head A: Pollution degree	3
Head B: Chemical resistance	No
Head B: Flame resistance	HB (UL94)
Head B: Pollution degree	3

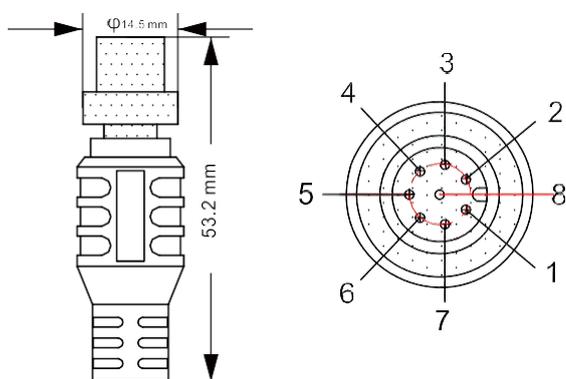
#### Environmental conditions

Cable: Silicone-free	Yes
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### Side A

#### Technical drawing

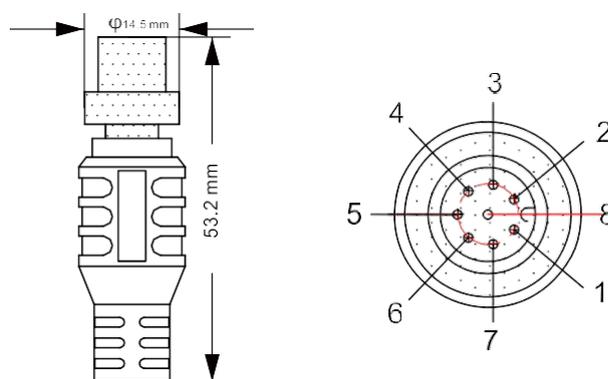
Coding



### Side B

#### Technical drawing

Coding



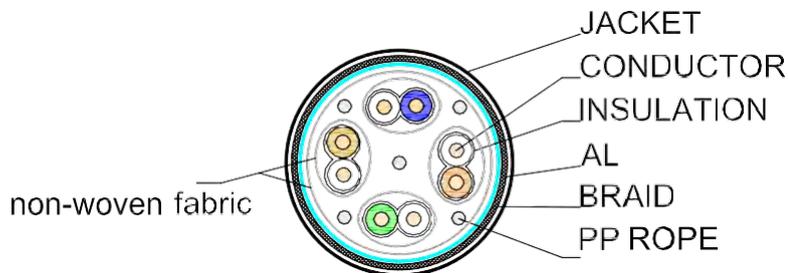
### Connection diagram

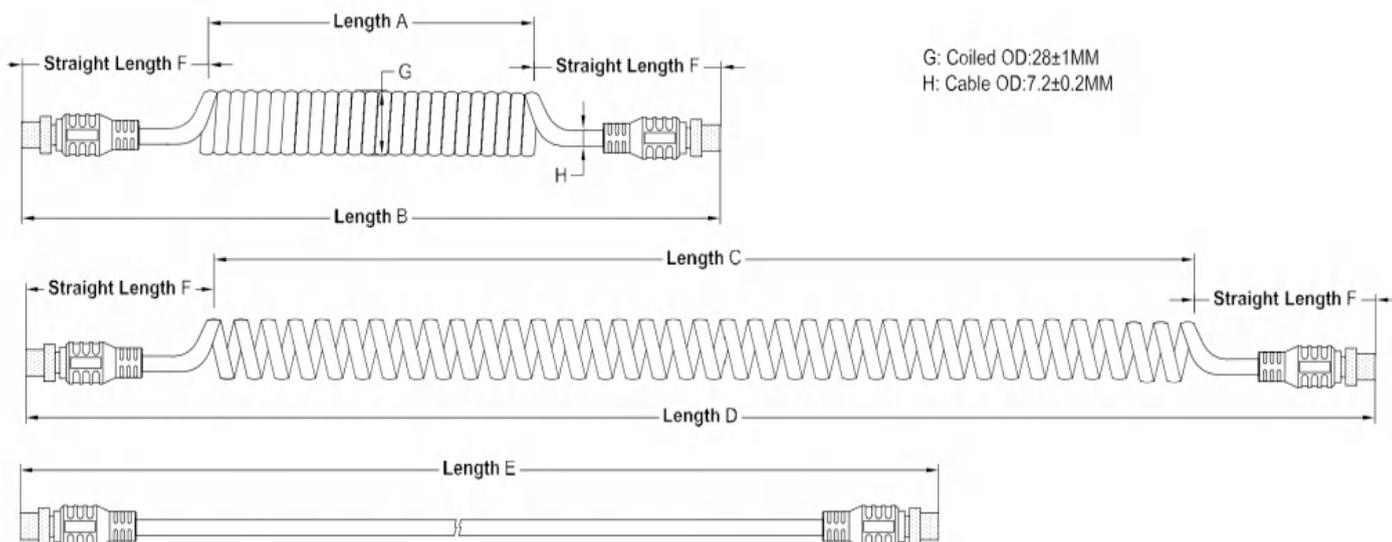
SIDE A

SIDE B

1	—	1	WHITE/ORANGE
2	—	2	ORANGE
3	—	3	WHITE/GREEN
4	—	4	GREEN
5	—	5	WHITE/BROWN
6	—	6	BROWN
7	—	7	WHITE/BLUE
8	—	8	BLUE
S	—	S	SHIELDED

### Sectional view





G: Coiled OD:28±1MM  
H: Cable OD:7.2±0.2MM

NOTED: Coiled cable has a useful extension range of approximately 3 times the retracted length of cable. Repeated extension beyond this upper limit length may result in permanent loss of coil memory.

Straight Cable before coiled Length E	Length A	Length B	Length C	Length D	Length F
3.076M <sup>+35MM</sup> / <sub>-30MM</sub>	0.3M	0.6M <sup>+35MM</sup> / <sub>-15MM</sub>	0.9M	1.2M <sup>+35MM</sup> / <sub>-20MM</sub>	0.15M
4.926M <sup>+35MM</sup> / <sub>-30MM</sub>	0.5M	0.8M <sup>+35MM</sup> / <sub>-15MM</sub>	1.5M	1.8M <sup>+35MM</sup> / <sub>-20MM</sub>	0.15M
7.239M±50MM	0.75M	1.05M <sup>+35MM</sup> / <sub>-20MM</sub>	2.25M	2.55M <sup>+35MM</sup> / <sub>-30MM</sub>	0.15M

**ORDERING LENGTH:**  
MAX OPERATING LENGTH D  
ORDERING PART NO. LENGTH B (COILED)

EUI-5040063-001= 0.6 Meter  
EUI-5040063-002= 0.8 Meter  
EUI-5040063-003= 1.05 Meter

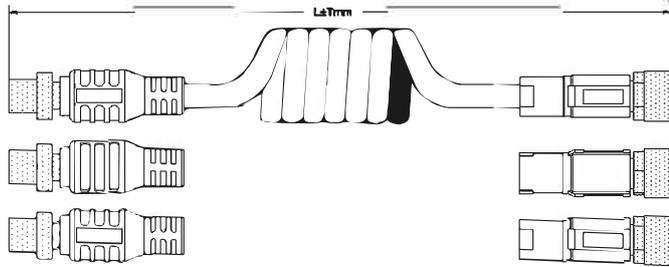
[www.electronic-links.com](http://www.electronic-links.com)

[sales@electronic-links.com](mailto:sales@electronic-links.com)



**Overview**

- M12 Male A to M12 Female A PUR Cable
- Head A: IP66K, IP67; Head B: IP66K, IP67
- Cable: SF/UTP 4\*[26AWG(30/0.08±0.008BC)+Non-woven fabric]+PP PORE+AL/MYLAR+BRAID(16\*9/0.10TC)+Non-woven fabric OD:Ø7.2±0.2MM PUR JACKET.



**Technical data**

**Side A**

Head A: Connection	M12
Head A: Angle cable outlet	0°
Head A: Gender	Male
Head A: Coding	A
Head A: No. of poles	8
Head A: LED	No
Head A: Width across flats	SW13
Head A: Tightening torque	0.6 Nm
Head A: Knurled nut material	Zinc-pressure die casting, surface Ni
Head A: Body color	Black
Labeling sleeve side A	Yes
O-Ring:	N/A

**Side B**

Head B: Connection	M12
Head B: Angle cable outlet	0°
Head B: Gender	Female
Head B: Coding	A
Head B: No. of poles	8
Head B: LED	No
Head B: Width across flats	SW13
Head B: Tightening torque	0.6 Nm
Head B: Knurled nut material	Zinc-pressure die casting, surface Ni
Head B: Body color	Black
Labeling sleeve side B	Yes
O-Ring:	Silica gel

**Cables**

Shielded	Yes
Conductor structure	30 × 0.08 mm
AWG	26
External sheath: Material	PUR
External sheath: Color	/
Cable diameter	7.2±0.2mm
Wire cross section	40.7mm <sup>2</sup>

**Electrical data**

Operating voltage	max. 60VDC
Nominal voltage	300 V
Contact resistance	max. 30 mOhm
Operating current per contact	max. 2 A

**Mechanical data**

Head A: Degree of protection	IP66K, IP67
Head B: Degree of protection	IP66K, IP67
Bending radius (mobile)	min. 15 x outer diameter
Bending radius (fixed)	min. 8 x outer diameter
Torsion supported	

**Environmental conditions**

Temperature range (mobile)	-25°C+70°C
Temperature range (fixed)	-25°C+80°C
Cable: Temperature range (fixed)	-40°C+80°C
Dragchain capable	Yes
Head A: Chemical resistance	No
Head A: Flame resistance	HB (UL 94)
Head A: Oil resistance	ASTM 1 oil, mineral oils, limited to hydraulic oils
Head A: Acid and alkali resistant	No



**Technical data**

**Environmental conditions**

Head A: Pollution degree	3
Head B: Chemical resistance	No
Head B: Flame resistance	HB (UL94)
Head B: Pollution degree	3

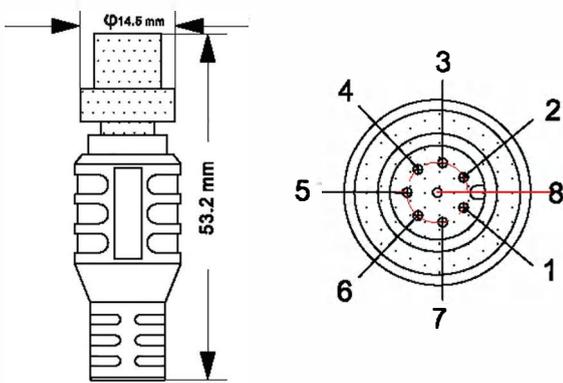
**Environmental conditions**

Cable: Silicone-free	Yes
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**Side A**

**Technical drawing**

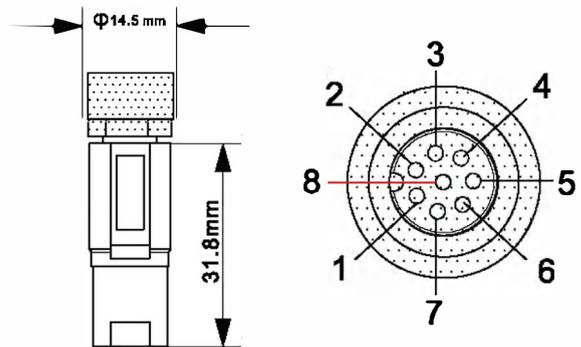
**Coding**



**Side B**

**Technical drawing**

**Coding**



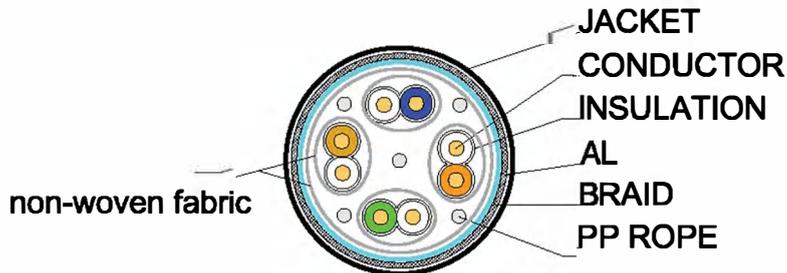
**Connection diagram**

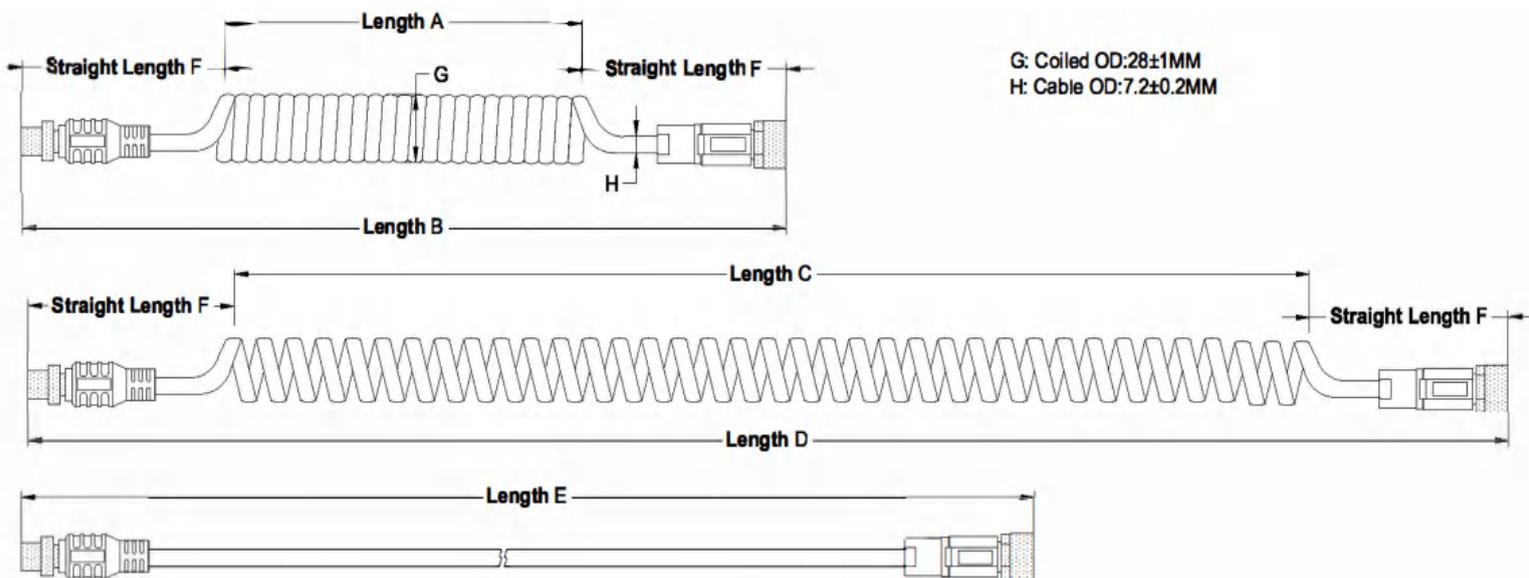
**SIDE A**

**SIDE B**

1	—	1	WHITE/ORANGE
2	—	2	ORANGE
3	—	3	WHITE/GREEN
4	—	4	GREEN
5	—	5	WHITE/BROWN
6	—	6	BROWN
7	—	7	WHITE/BLUE
8	—	8	BLUE
S	—	S	SHIELDED

**Sectional view**





G: Coiled OD:28±1MM  
 H: Cable OD:7.2±0.2MM

NOTED: Coiled cable has a useful extension range of approximately 3 times the retracted length of cable. Repeated extension beyond this upper limit length may result in permanent loss of coil memory.

Straight Cable before coiled Length E	Length A	Length B	Length C	Length D	Length F
3.076M <sup>+35MM</sup> / <sub>-30MM</sub>	0.3M	0.6M <sup>+35MM</sup> / <sub>-15MM</sub>	0.9M	1.2M <sup>+35MM</sup> / <sub>-20MM</sub>	0.15M
4.926M <sup>+35MM</sup> / <sub>-30MM</sub>	0.5M	0.8M <sup>+35MM</sup> / <sub>-15MM</sub>	1.5M	1.8M <sup>+35MM</sup> / <sub>-20MM</sub>	0.15M
7.239M±50MM	0.75M	1.05M <sup>+35MM</sup> / <sub>-20MM</sub>	2.25M	2.55M <sup>+35MM</sup> / <sub>-30MM</sub>	0.15M

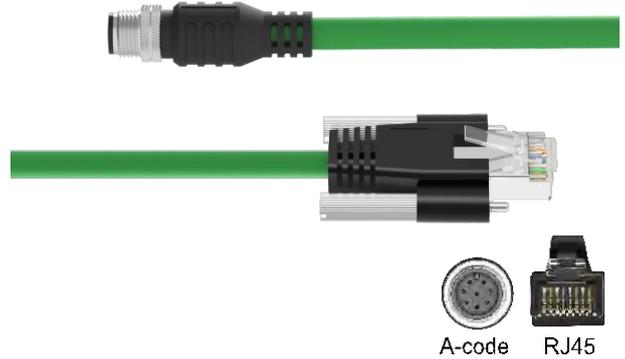
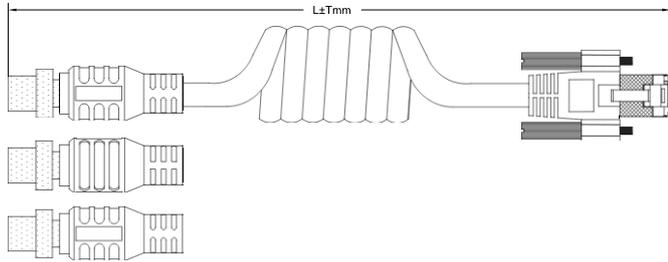
ORDERING LENGTH:  
 MAX OPERATING LENGTH D  
 ORDERING PART NO. LENGTH B (COILED)

ELII-5040064-001=0.6Meter  
 ELII-5040064-002=0.8Meter  
 ELII-5040064-003 = 1.05 Meter



### Overview

- M12 Male A to RJ45 Male A PUR Cable
- Head A: IP66K, IP67; Head B: IP20
- Cable: SF/UTP 4\*[26AWG(30/0.08±0.008BC)+Non-woven fabric]+PP PORE+AL/MYLAR+BRAID(16\*9/0.10TC)+Non-woven fabric OD:Ø7.2±0.2MM PUR JACKET.



### Technical data

#### Side A

Head A: Connection	M12
Head A: Angle cable outlet	0°
Head A: Gender	Male
Head A: Coding	A
Head A: No. of poles	8
Head A: LED	No
Head A: Width across flats	SW13
Head A: Tightening torque	0.6 Nm
Head A: Knurled nut material	Zinc-pressure die casting, surface Ni
Head A: Body color	Black
Labeling sleeve side A	Yes
O-Ring:	N/A

#### Side B

Head B: Connection	RJ45
Head B: Angle cable outlet	0°
Head B: Gender	Male
Head B: Coding	N/A
Head B: No. of poles	8
Head B: LED	No
Head B: Body color	Black
Labeling sleeve side B	Yes

#### Electrical data

Operating voltage	max.60VDC
Nominal voltage	300 V
Contact resistance	max. 30 mOhm
Operating current per contact	max. 2 A

#### Mechanical data

Head A: Degree of protection	IP66K, IP67
Head B: Degree of protection	IP20
Bending radius (mobile)	min.15 x outer diameter
Bending radius (fixed)	min.8 x outer diameter
Torsion supported	

#### Environmental conditions

Temperature range (mobile)	-25°C+70°C
Temperature range (fixed)	-25°C+80°C
Cable: Temperature range (fixed)	-40°C+80°C
Dragchain capable	Yes
Head A: Chemical resistance	No
Head A: Flame resistance	HB (UL 94)
Head A: Oil resistance	ASTM 1 oil, mineral oils, limited to hydraulic oils
Head A: Acid and alkali resistant	No

#### Cables

Shielded	Yes
Conductor structure	30 × 0.08 mm
AWG	26
External sheath: Material	PUR
External sheath: Color	/
Cable diameter	7.2±0.2mm
Wire cross section	40.7mm <sup>2</sup>



### Technical data

#### Environmental conditions

Head A: Pollution degree	3
Head B: Chemical resistance	No
Head B: Flame resistance	HB (UL94)
Head B: Pollution degree	3

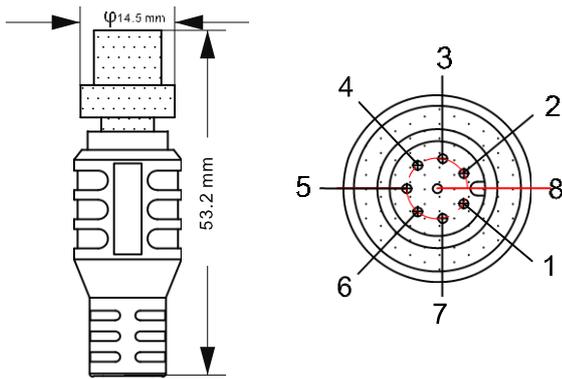
#### Environmental conditions

Cable: Silicone-free	Yes
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### Side A

#### Technical drawing

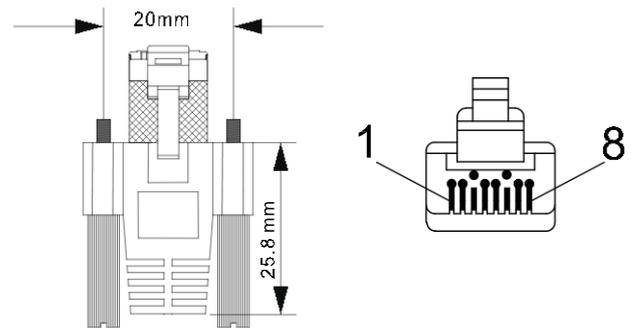
#### Coding



### Side B

#### Technical drawing

#### Coding



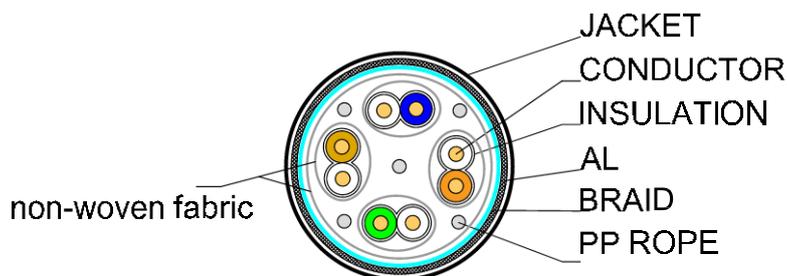
### Connection diagram

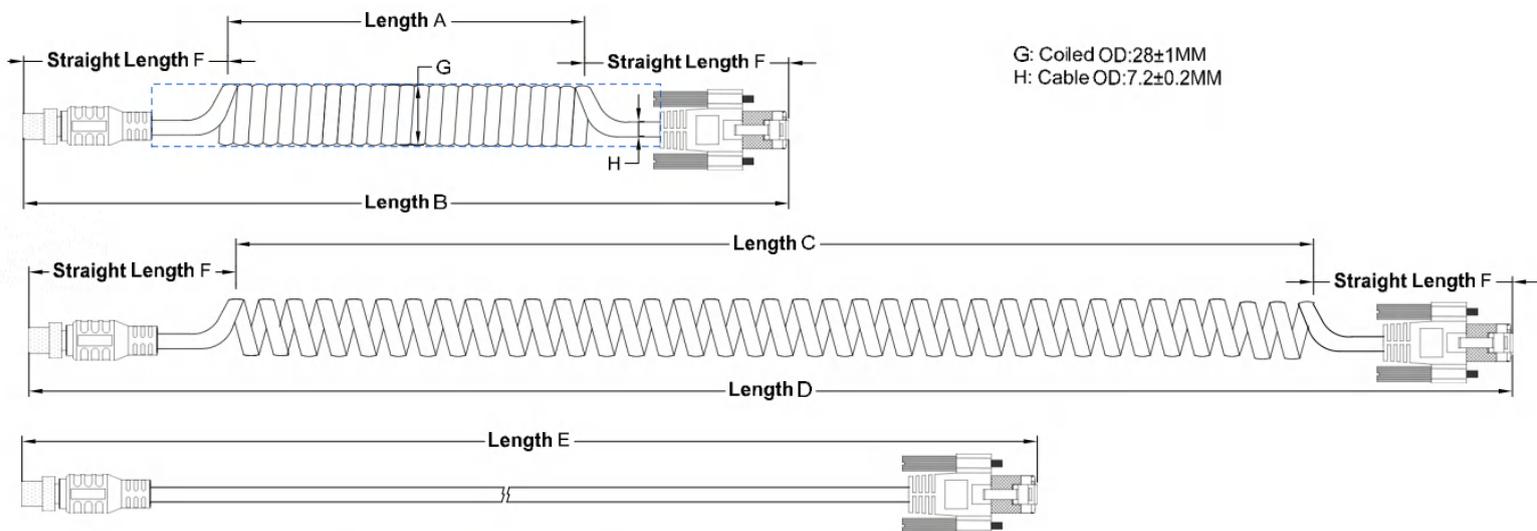
#### SIDE A

#### SIDE B

6	—	1	WHITE/ORANGE
4	—	2	ORANGE
5	—	3	WHITE/GREEN
7	—	4	BLUE
1	—	5	WHITE/BLUE
8	—	6	GREEN
2	—	7	WHITE/BROWN
3	—	8	BROWN
S	—	S	SHIELDED

### Sectional view





G: Coiled OD:28±1MM  
H: Cable OD:7.2±0.2MM

NOTED: Coiled cable has a useful extension range of approximately 3 times the retracted length of cable. Repeated extension beyond this upper limit length may result in permanent loss of coil memory.

Straight Cable before coiled Length E	Length A	Length B	Length C	Length D	Length F
3.076M <sup>+35MM</sup> / <sub>-30MM</sub>	0.3M	0.6M <sup>+35MM</sup> / <sub>-15MM</sub>	0.9M	1.2M <sup>+35MM</sup> / <sub>-20MM</sub>	0.15M
4.926M <sup>+35MM</sup> / <sub>-30MM</sub>	0.5M	0.8M <sup>+35MM</sup> / <sub>-15MM</sub>	1.5M	1.8M <sup>+35MM</sup> / <sub>-20MM</sub>	0.15M
7.239M±50MM	0.75M	1.05M <sup>+35MM</sup> / <sub>-20MM</sub>	2.25M	2.55M <sup>+35MM</sup> / <sub>-30MM</sub>	0.15M

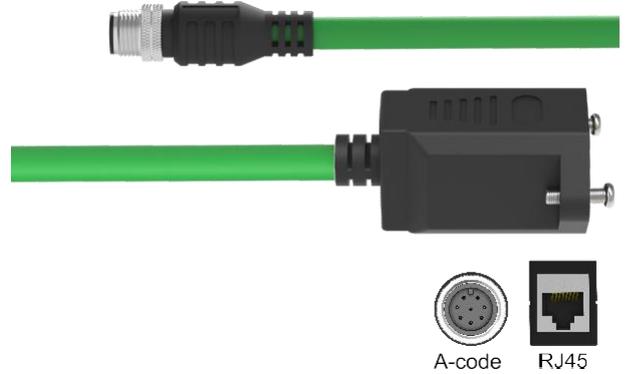
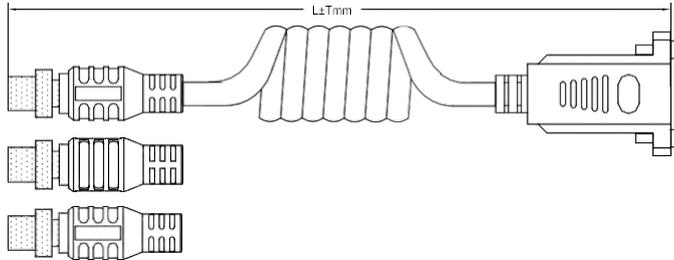
**ORDERING LENGTH:**  
**MAX OPERATING LENGTH D**  
**ORDERING PART NO. LENGTH B (COILED)**

ELII-5040065-001= 0.6 Meter  
ELII-5040065-002= 0.8 Meter  
ELII-5040065-003= 1.05 Meter



**Overview**

- M12 Male A to RJ45 Female A PUR Cable
- Head A: IP66K, IP67; Head B: IP20
- Cable: SF/UTP 4\*[26AWG(30/0.08±0.008BC)+Non-woven fabric]+PP PORE+AL/MYLAR+BRAID(16\*9/0.10TC)+Non-woven fabric OD:Ø7.2±0.2MM PUR JACKET.



**Technical data**

**Side A**

Head A: Connection	M12
Head A: Angle cable outlet	0°
Head A: Gender	Male
Head A: Coding	A
Head A: No. of poles	8
Head A: LED	No
Head A: Width across flats	SW13
Head A: Tightening torque	0.6 Nm
Head A: Knurled nut material	Zinc-pressure die casting, surface Ni
Head A: Body color	Black
Labeling sleeve side A	Yes
O-Ring:	N/A

**Side B**

Head B: Connection	RJ45
Head B: Angle cable outlet	0°
Head B: Gender	Female
Head B: Coding	N/A
Head B: No. of poles	8
Head B: LED	No
Head B: Body color	Black
Labeling sleeve side B	Yes

**Cables**

Shielded	Yes
Conductor structure	30 × 0.08 mm
AWG	26
External sheath: Material	PUR
External sheath: Color	/
Cable diameter	7.2±0.2mm
Wire cross section	40.7mm <sup>2</sup>

**Electrical data**

Operating voltage	max.60VDC
Nominal voltage	300 V
Contact resistance	max. 30 mOhm
Operating current per contact	max. 2 A

**Mechanical data**

Head A: Degree of protection	IP66K, IP67
Head B: Degree of protection	IP20
Bending radius (mobile)	min.15 x outer diameter
Bending radius (fixed)	min.8 x outer diameter
Torsion supported	

**Environmental conditions**

Temperature range (mobile)	-25°C+70°C
Temperature range (fixed)	-25°C+80°C
Cable: Temperature range (fixed)	-40°C+80°C
Dragchain capable	Yes
Head A: Chemical resistance	No
Head A: Flame resistance	HB (UL 94)
Head A: Oil resistance	ASTM 1 oil, mineral oils, limited to hydraulic oils
Head A: Acid and alkali resistant	No



**Technical data**

**Environmental conditions**

Head A: Pollution degree	3
Head B: Chemical resistance	No
Head B: Flame resistance	HB (UL94)
Head B: Pollution degree	3

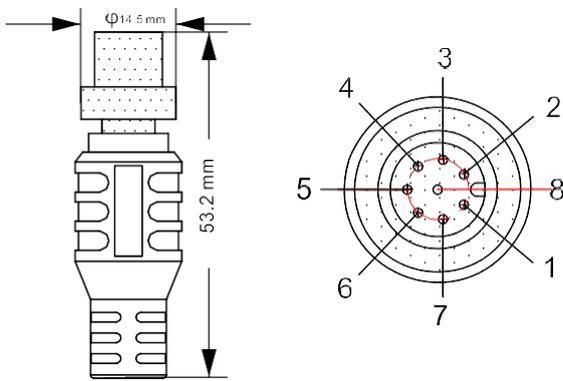
**Environmental conditions**

Cable: Silicone-free	Yes
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**Side A**

**Technical drawing**

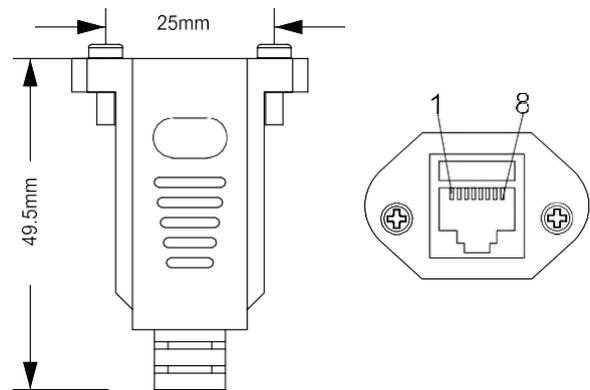
Coding



**Side B**

**Technical drawing**

Coding



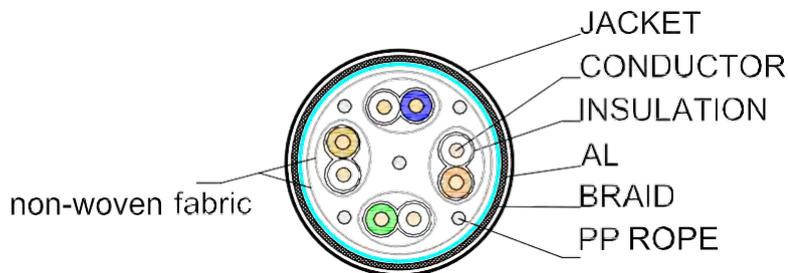
**Connection diagram**

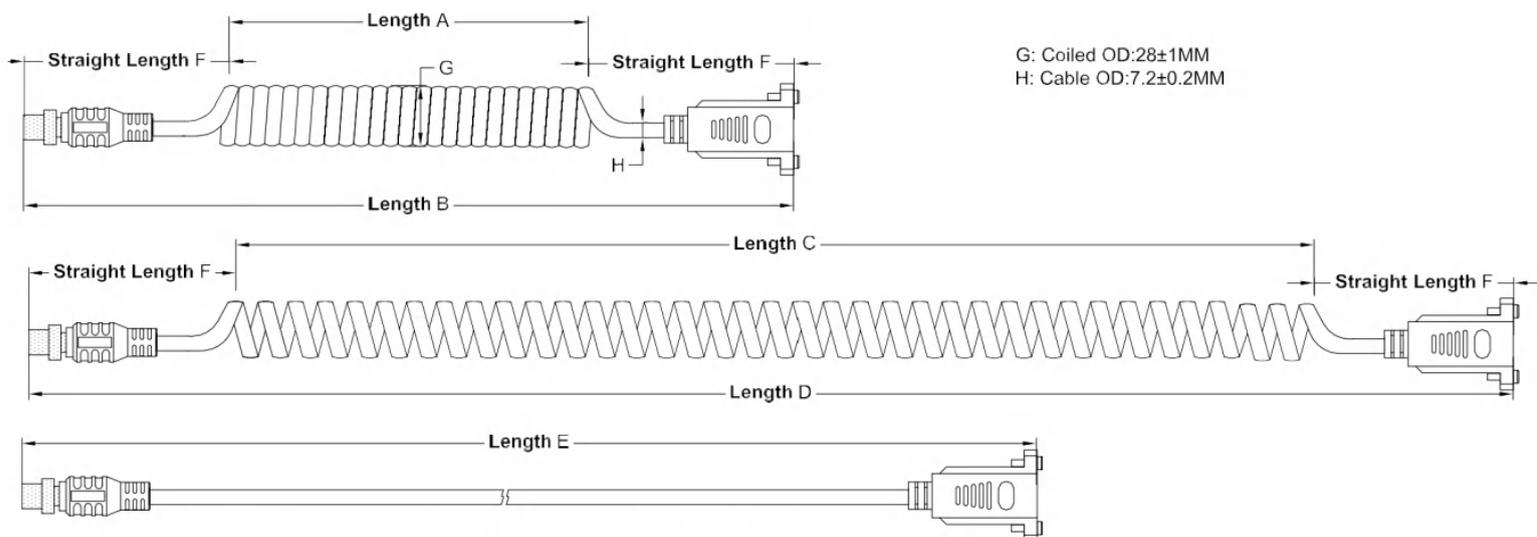
SIDE A

SIDE B

6	—	1	WHITE/ORANGE
4	—	2	ORANGE
5	—	3	WHITE/GREEN
7	—	4	BLUE
1	—	5	WHITE/BLUE
8	—	6	GREEN
2	—	7	WHITE/BROWN
3	—	8	BROWN
S	—	S	SHIELDED

**Sectional view**





NOTED: Coiled cable has a useful extension range of approximately 3 times the retracted length of cable.  
 Repeated extension beyond this upper limit length may result in permanent loss of coil memory.

Straight Cable before coiled Length E	Length A	Length B	Length C	Length D	Length F
3.076M <sup>+35MM</sup> / <sub>-30MM</sub>	0.3M	0.6M <sup>+35MM</sup> / <sub>-15MM</sub>	0.9M	1.2M <sup>+35MM</sup> / <sub>-20MM</sub>	0.15M
4.926M <sup>+35MM</sup> / <sub>-30MM</sub>	0.5M	0.8M <sup>+35MM</sup> / <sub>-15MM</sub>	1.5M	1.8M <sup>+35MM</sup> / <sub>-20MM</sub>	0.15M
7.239M±50MM	0.75M	1.05M <sup>+35MM</sup> / <sub>-20MM</sub>	2.25M	2.55M <sup>+35MM</sup> / <sub>-30MM</sub>	0.15M

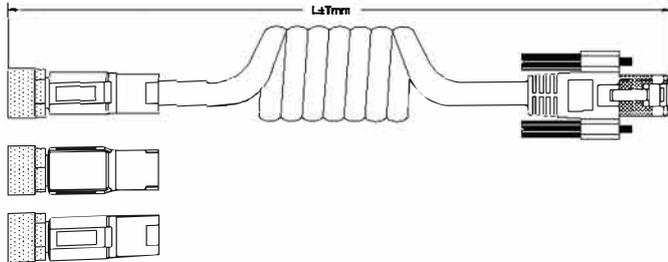
**ORDERING LENGTH:**  
**MAX OPERATING LENGTH D**  
**ORDERING PART NO. LENGTH B (COILED)**

**ELII-5040066-001= 0.6 Meter**  
**ELII-5040066-002= 0.8 Meter**  
**ELII-5040066-003= 1.05 Meter**



**Overview**

- M12 Female A to RJ45 Male A PUR Cable
- Head A: IP66K, IP67; Head B: IP20
- Cable: SF/UTP 4\*[26AWG(30/0.08±0.008BC)+Non-woven fabric]+PP PORE+AL/MYLAR+BRAID(16\*9/0.10TC)+Non-woven fabric OD:Ø7.2±0.2MM PUR JACKET.



**Technical data**

**Side A**

Head A: Connection	M12
Head A: Angle cable outlet	0°
Head A: Gender	Female
Head A: Coding	A
Head A: No. of poles	8
Head A: LED	No
Head A: Width across flats	SW13
Head A: Tightening torque	0.6 Nm
Head A: Knurled nut material	Zinc-pressure die casting, surface Ni
Head A: Body color	Black
Labeling sleeve side A	Yes
O-Ring:	Silica gel

**Side B**

Head B: Connection	RJ45
Head B: Angle cable outlet	0°
Head B: Gender	Male
Head B: Coding	N/A
Head B: No. of poles	8
Head B: LED	No
Head B: Body color	Black
Labeling sleeve side B	Yes

**Cables**

Shielded	Yes
Conductor structure	30 × 0.08 mm
AWG	26
External sheath: Material	PUR
External sheath: Color	/
Cable diameter	7.2±0.2mm
Wire cross section	40.7mm <sup>2</sup>

**Electrical data**

Operating voltage	max. 60VDC
Nominal voltage	300 V
Contact resistance	max. 30 mOhm
Operating current per contact	max. 2 A

**Mechanical data**

Head A: Degree of protection	IP66K, IP67
Head B: Degree of protection	IP20
Bending radius (mobile)	min. 15 x outer diameter
Bending radius (fixed)	min. 8 x outer diameter
Torsion supported	

**Environmental conditions**

Temperature range (mobile)	-25°C+70°C
Temperature range (fixed)	-25°C+80°C
Cable: Temperature range (fixed)	-40°C+80°C
Dragchain capable	Yes
Head A: Chemical resistance	No
Head A: Flame resistance	HB (UL 94)
Head A: Oil resistance	ASTM 1 oil, mineral oils, limited to hydraulic oils
Head A: Acid and alkali resistant	No



**Technical data**

**Environmental conditions**

Head A: Pollution degree	3
Head B: Chemical resistance	No
Head B: Flame resistance	HB (UL94)
Head B: Pollution degree	3

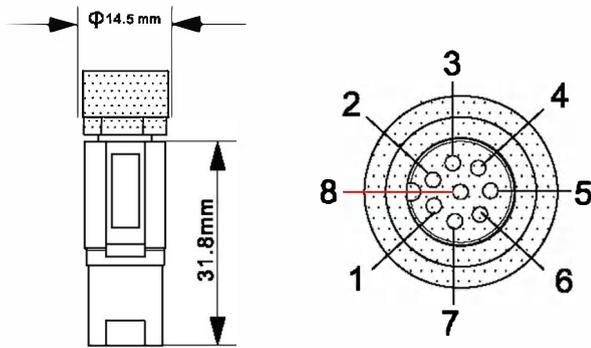
**Environmental conditions**

Cable: Silicone-free	Yes
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**Side A**

**Technical drawing**

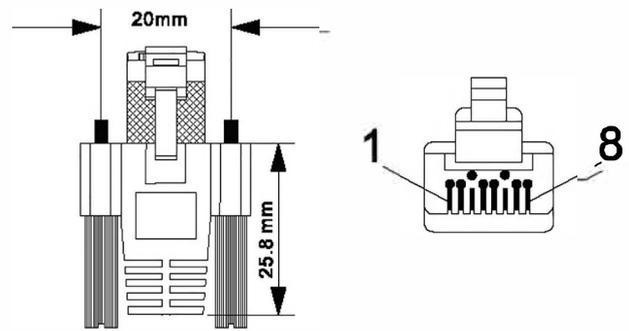
**Coding**



**Side B**

**Technical drawing**

**Coding**



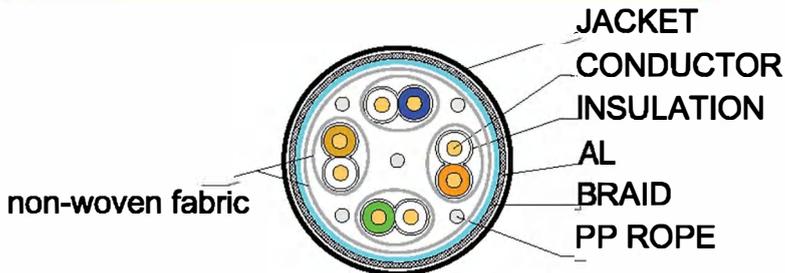
**Connection diagram**

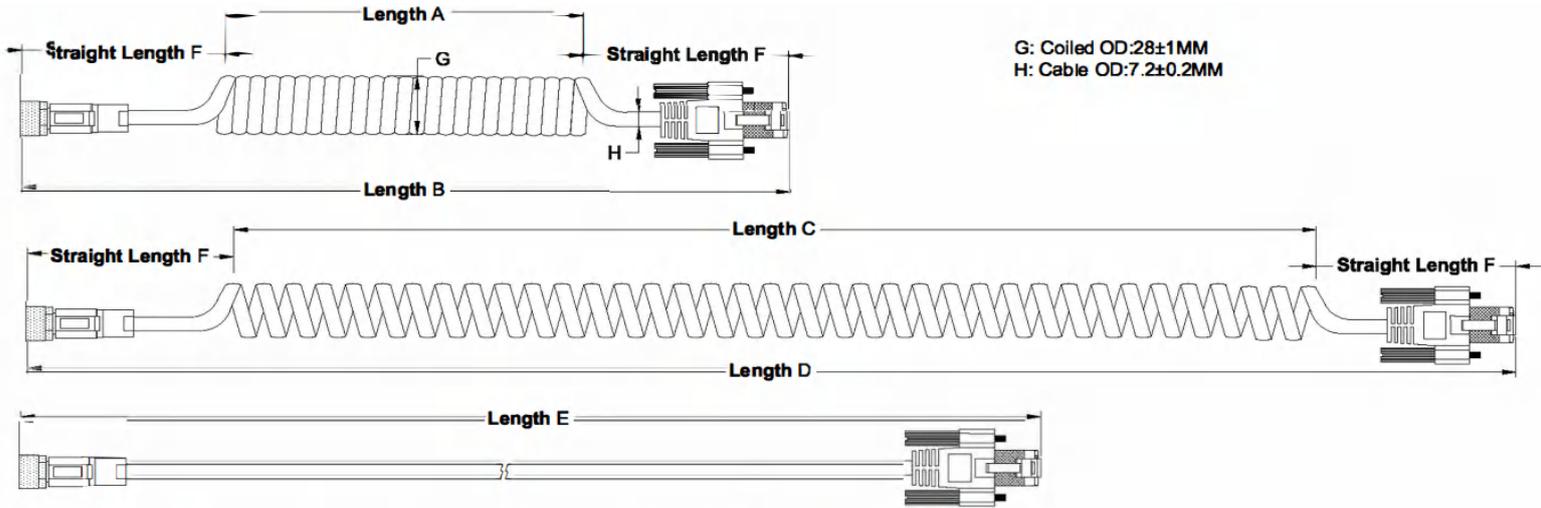
**SIDE A**

**SIDE B**

6	1	WHITE/ORANGE
4	2	ORANGE
5	3	WHITE/GREEN
7	4	BLUE
1	5	WHITE/BLUE
8	6	GREEN
2	7	WHITE/BROWN
3	8	BROWN
S	S	SHIELDED

**Sectional view**





NOTED: Coiled cable has a useful extension range of approximately 3 times the retracted length of cable. Repeated extension beyond this upper limit length may result in permanent loss of coil memory.

Straight Cable before coiled Length E	Length A	Length B	Length C	Length D	Length F
3.076M <sup>+35MM</sup> / <sub>-30MM</sub>	0.3M	0.6M <sup>+35MM</sup> / <sub>-15MM</sub>	0.9M	1.2M <sup>+35MM</sup> / <sub>-20MM</sub>	0.15M
4.926M <sup>+35MM</sup> / <sub>-30MM</sub>	0.5M	0.8M <sup>+35MM</sup> / <sub>-15MM</sub>	1.5M	1.8M <sup>+35MM</sup> / <sub>-20MM</sub>	0.15M
7.239M±50MM	0.75M	1.05M <sup>+35MM</sup> / <sub>-20MM</sub>	2.25M	2.55M <sup>+35MM</sup> / <sub>-30MM</sub>	0.15M

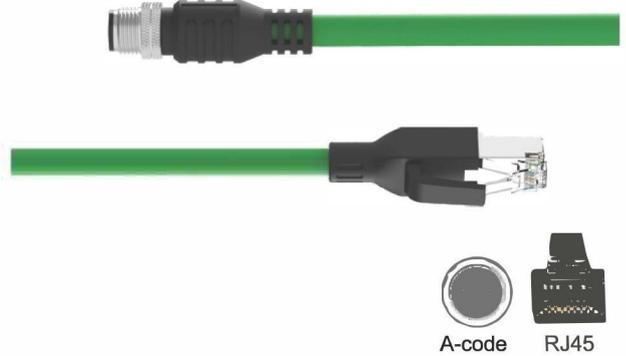
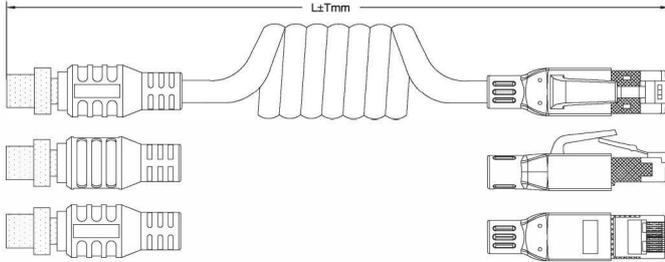
ORDERING LENGTH:  
MAX OPERATING LENGTH D  
ORDERING PART NO. LENGTH B (COILED)

ELII-5040067-001=0.6Meter  
ELII-5040067-002=0.8Meter  
ELII-5040067-003 = 1.05 Meter



**Overview**

- M12 Male A to RJ45 Male A PUR Cable
- Head A: IP66K, IP67; Head B: IP20
- Cable: SF/UTP 4\*[26AWG(30/0.08±0.008BC)+Non-woven fabric]+PP PORE+AL/MYLAR+BRAID(16\*9/0.10TC)+Non-woven fabric OD:Ø7.2±0.2MM PUR JACKET.



**Technical data**

Side A	
Head A: Connection	M12
Head A: Angle cable outlet	0°
Head A: Gender	Male
Head A: Coding	A
Head A: No. of poles	8
Head A: LED	No
Head A: Width across flats	SW13
Head A: Tightening torque	0.6 Nm
Head A: Knurled nut material	Zinc-pressure die casting, surface Ni
Head A: Body color	Black
Labeling sleeve side A	Yes
O-Ring:	N/A

Side B	
Head B: Connection	RJ45
Head B: Angle cable outlet	0°
Head B: Gender	Male
Head B: Coding	N/A
Head B: No. of poles	8
Head B: LED	No
Head B: Body color	Black
Labeling sleeve side B	Yes

Electrical data	
Operating voltage	max.60VDC
Nominal voltage	300 V
Contact resistance	max. 30 mOhm
Operating current per contact	max. 2 A

Mechanical data	
Head A: Degree of protection	IP66K, IP67
Head B: Degree of protection	IP20
Bending radius (mobile)	min.15 x outer diameter
Bending radius (fixed)	min.8 x outer diameter
Torsion supported	

Environmental conditions	
Temperature range (mobile)	-25°C+70°C
Temperature range (fixed)	-25°C+80°C
Cable: Temperature range (fixed)	-40°C+80°C
Dragchain capable	Yes
Head A: Chemical resistance	No
Head A: Flame resistance	HB (UL 94)
Head A: Oil resistance	ASTM 1 oil, mineral oils, limited to hydraulic oils
Head A: Acid and alkali resistant	No

Cables	
Shielded	Yes
Conductor structure	30 × 0.08 mm
AWG	26
External sheath: Material	PUR
External sheath: Color	/
Cable diameter	7.2±0.2mm
Wire cross section	40.7mm <sup>2</sup>



Technical data

Environmental conditions

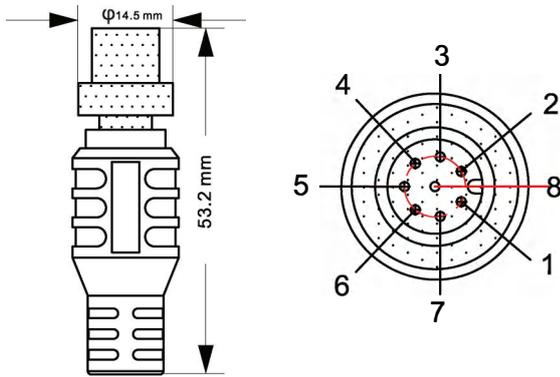
Head A: Pollution degree	3
Head B: Chemical resistance	No
Head B: Flame resistance	HB (UL94)
Head B: Pollution degree	3

Environmental conditions

Cable: Silicone-free	Yes
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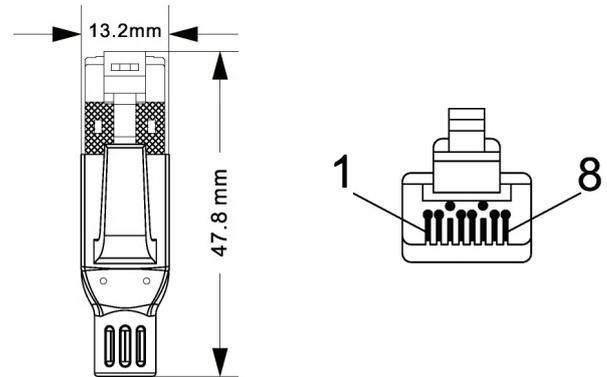
Side A

Technical drawing Coding



Side B

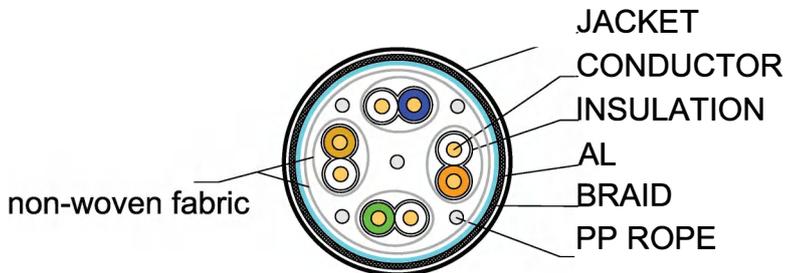
Technical drawing Coding

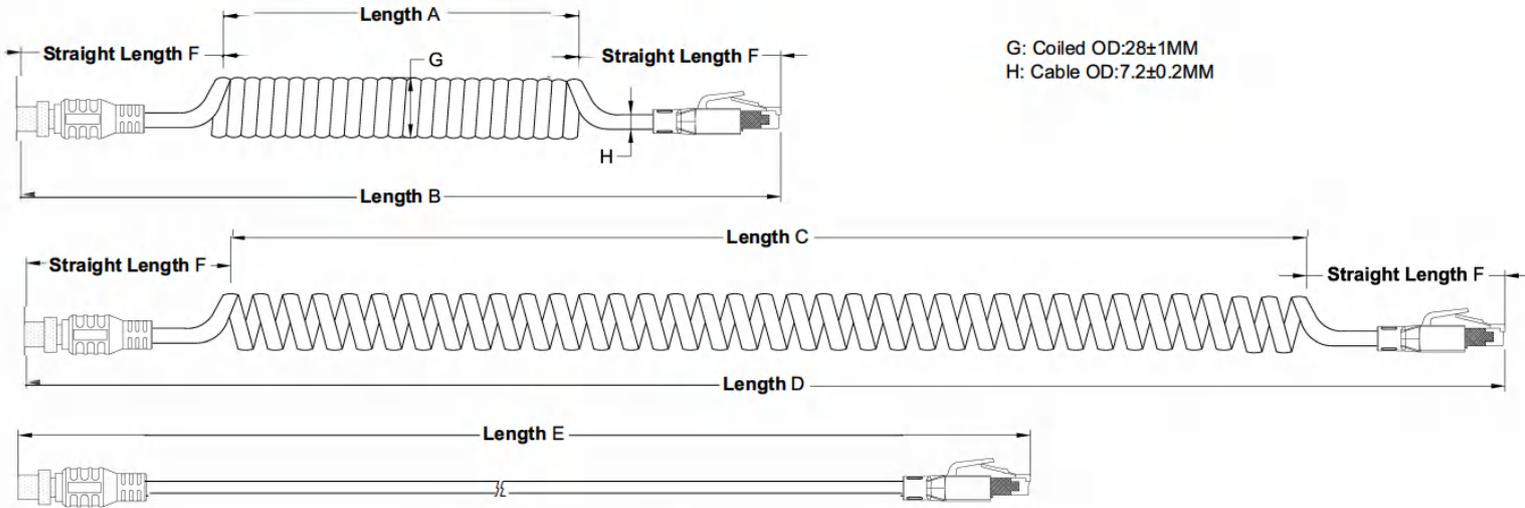


Color coding

SIDE A	SIDE B
6 ——— 1	WHITE/ORANGE
4 ——— 2	ORANGE
5 ——— 3	WHITE/GREEN
7 ——— 4	BLUE
1 ——— 5	WHITE/BLUE
8 ——— 6	GREEN
2 ——— 7	WHITE/BROWN
3 ——— 8	BROWN
S	S SHIELDED

Construction





G: Coiled OD:28±1MM  
H: Cable OD:7.2±0.2MM

NOTED: Coiled cable has a useful extension range of approximately 3 times the retracted length of cable. Repeated extension beyond this upper limit length may result in permanent loss of coil memory.

Straight Cable before coiled Length E	Length A	Length B	Length C	Length D	Length F
3.076M <sup>+35MM</sup> <sub>-30MM</sub>	0.3M	0.6M <sup>+35MM</sup> <sub>-15MM</sub>	0.9M	1.2M <sup>+35MM</sup> <sub>-20MM</sub>	0.15M
4.926M <sup>+35MM</sup> <sub>-30MM</sub>	0.5M	0.8M <sup>+35MM</sup> <sub>-15MM</sub>	1.5M	1.8M <sup>+35MM</sup> <sub>-20MM</sub>	0.15M
7.239M±50MM	0.75M	1.05M <sup>+35MM</sup> <sub>-20MM</sub>	2.25M	2.55M <sup>+35MM</sup> <sub>-30MM</sub>	0.15M

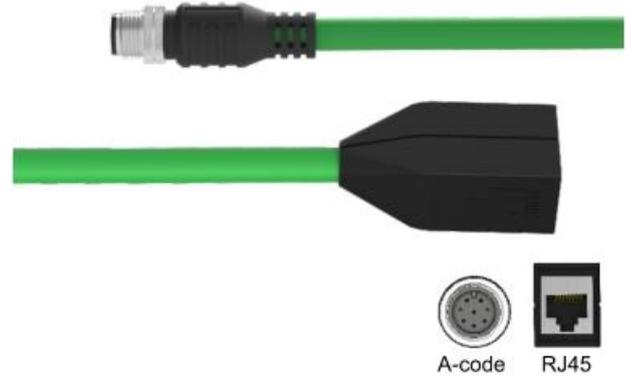
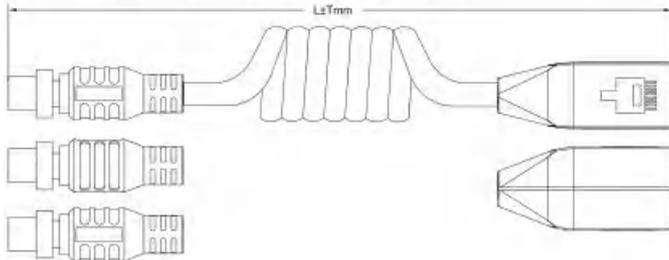
ORDERING LENGTH :  
MAX OPERATION LENGTH D  
ORDERING PART NO. LENGTH B (COILED)

ELII-5040068-001=0.6Meter  
ELII-5040068-002=0.8Meter  
ELII-5040068-003=1.05 Meter



## Overview

- M12 Male A to RJ45 Female A PUR Cable
- Head A: IP66K, IP67; Head B: IP20
- Cable: SF/UTP 4\*[26AWG(30/0.08±0.008BC)+Non-woven fabric]+PP PORE+AL/MYLAR+BRAID(16\*9/0.10TC)+Non-woven fabric OD:Ø7.2±0.2MM PUR JACKET.



## Technical data

### Side A

Head A Connection	M12
Head A Angle cable outlet	0°
Head A Gender	Male
Head A Coding	A
Head A: No. of poles	8
Head A: LED	No
Head A: Width across flats	SW13
Head A: Tightening torque	0.6 Nm
Head A: Knurled nut material	Zinc-pressure die casting, surface Ni
Head A: Body color	Black
Labeling sleeve side A	Yes
O-Ring:	N/A

### Side B

Head B: Connection	RJ45
Head B: Angle cable outlet	0°
Head B: Gender	Female
Head B: Coding	N/A
Head B: No. of poles	8
Head B: LED	No
Head B: Body color	Black
Labeling sleeve side B	Yes

### Electrical data

Operating voltage	max.60VDC
Nominal voltage	300 V
Contact resistance	max. 30 mOhm
Operating current per contact	max. 2 A

### Mechanical data

Head A: Degree of protection	IP66K, IP67
Head B: Degree of protection	IP20
Bending radius (mobile)	min.15 x outer diameter
Bending radius (fixed)	min.8 x outer diameter
Torsion supported	

### Environmental conditions

Temperature range (mobile)	-25°C+70°C
Temperature range (fixed)	-25°C+80°C
Cable: Temperature range (fixed)	-40°C+80°C
Dragchain capable	Yes
Head A: Chemical resistance	No
Head A: Flame resistance	HB (UL 94)
Head A: Oil resistance	ASTM 1 oil, mineral oils, limited to hydraulic oils
Head A: Acid and alkali resistant	No

## Cables

Shielded	Yes
Conductor structure	30 × 0.08 mm
AWG	26
External sheath: Material	PUR
External sheath: Color	/
Cable diameter	7.2±0.2mm
Wire cross section	40.7mm <sup>2</sup>



**Technical data**

**Environmental conditions**

Head A: Pollution degree	3
Head B: Chemical resistance	No
Head B: Flame resistance	HB (UL94)
Head B: Pollution degree	3

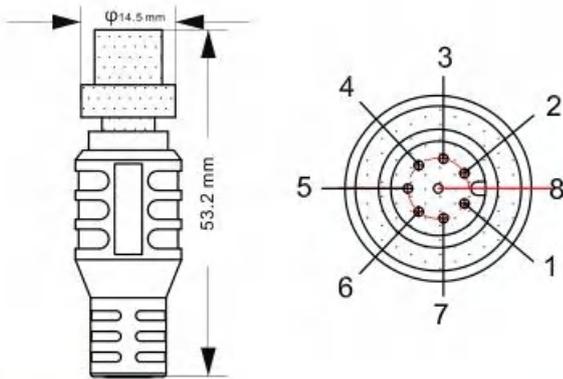
**Environmental conditions**

Cable: Silicone-free	Yes
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**Side A**

**Technical drawing**

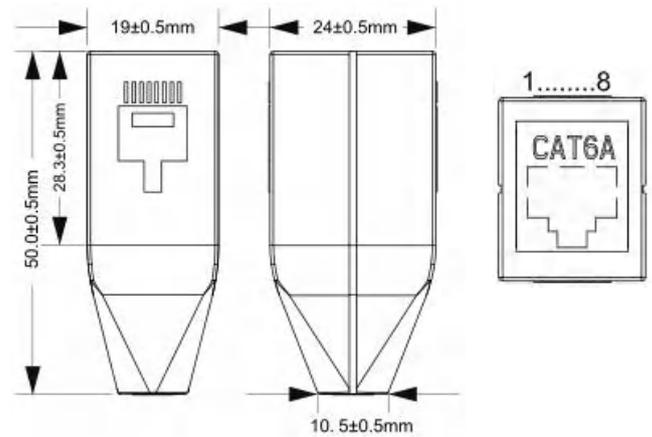
**Coding**



**Side B**

**Technical drawing**

**Coding**



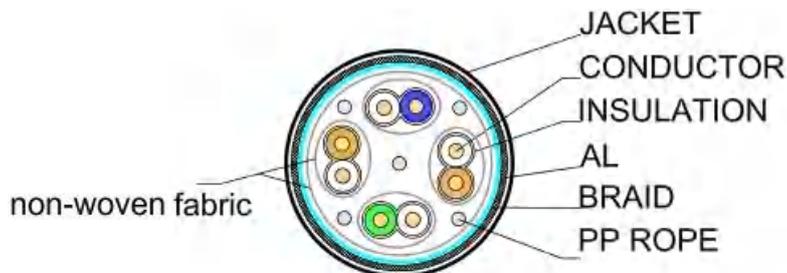
**Connection diagram**

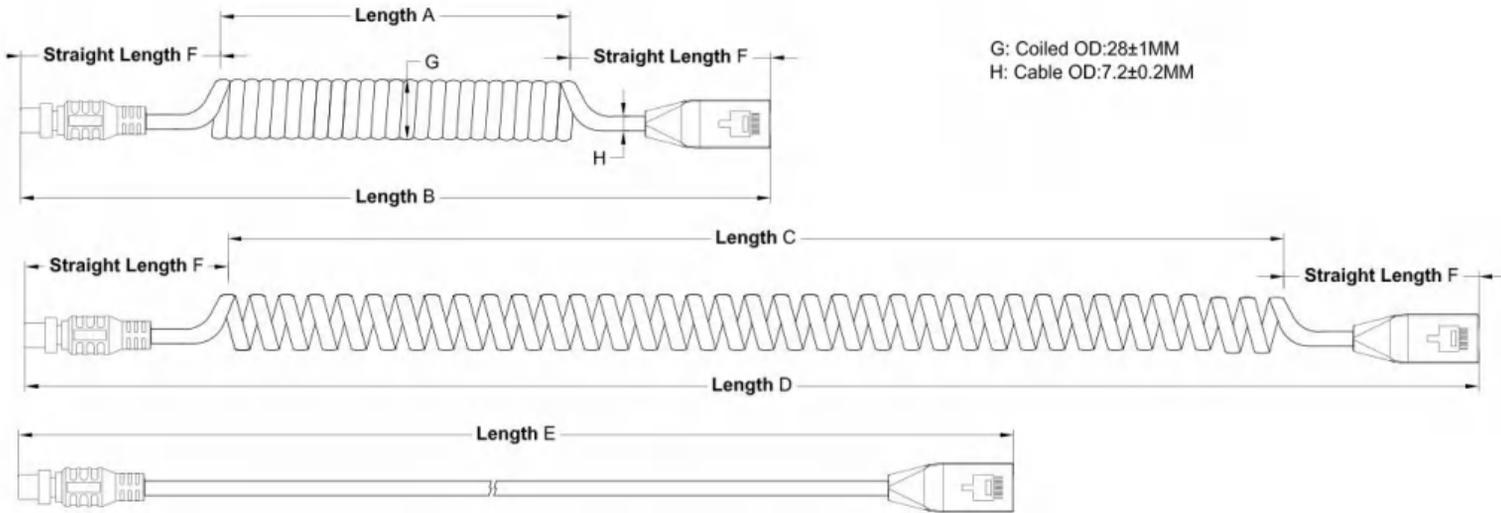
**SIDE A**

**SIDE B**

6	—	—	—	1	WHITE/ORANGE
4	—	—	—	2	ORANGE
5	—	—	—	3	WHITE/GREEN
7	—	—	—	4	BLUE
1	—	—	—	5	WHITE/BLUE
8	—	—	—	6	GREEN
2	—	—	—	7	WHITE/BROWN
3	—	—	—	8	BROWN
S	—	—	—	S	SHIELDED

**Sectional view**





G: Coiled OD:28±1MM  
H: Cable OD:7.2±0.2MM

NOTED Coiled cable has a useful extension range of approximately 3 times the retracted length of cable. Repeated extension beyond this upper limit length may result in permanent loss of coil memory.

Straight Cable before coiled Length E	Length A	Length B	Length C	Length D	Length F
3.076M <sup>+35MM</sup> / <sub>-30MM</sub>	0.3M	0.6M <sup>+35MM</sup> / <sub>-15MM</sub>	0.9M	1.2M <sup>+35MM</sup> / <sub>-20MM</sub>	0.15M
4.926M <sup>+35MM</sup> / <sub>-30MM</sub>	0.5M	0.8M <sup>+35MM</sup> / <sub>-15MM</sub>	1.5M	1.8M <sup>+35MM</sup> / <sub>-20MM</sub>	0.15M
7.239M±50MM	0.75M	1.05M <sup>+35MM</sup> / <sub>-20MM</sub>	2.25M	2.55M <sup>+35MM</sup> / <sub>-30MM</sub>	0.15M

**ORDERING LENGTH:  
MAX OPERATING LENGTH D  
ORDERING PART NO. LENGTH B (COILED)**

ELII-5040069-001= 0.6 Meter  
ELII-5040069-002= 0.8 Meter  
ELII-5040069-003= 1.05 Meter

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[sales@electronic-links.com](mailto:sales@electronic-links.com)

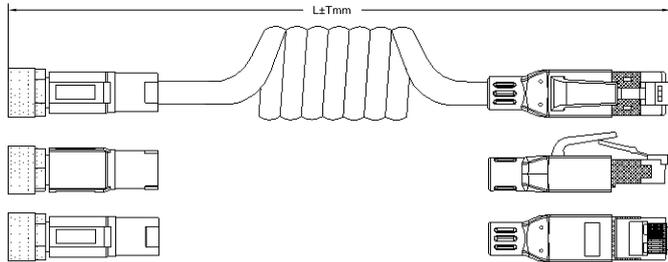
Ethernet Industrial Cable for IIoT  
**M12-A (Female) to RJ45 (Male) 8Pin  
 PUR Spiral Cable Assembly**

Article Number: M2UFFM8AR6B---51021103



**Overview**

- M12 Female A to RJ45 Male A PUR Cable
- Head A: IP66K, IP67; Head B: IP20
- Cable: SF/UTP 4\*[26AWG(30/0.08±0.008BC)+Non-woven fabric]+PP PORE+AL/MYLAR+BRAID(16\*9/0.10TC)+Non-woven fabric OD:Ø7.2±0.2MM PUR JACKET.



**Technical data**

Side A	
Head A: Connection	M12
Head A: Angle cable outlet	0°
Head A: Gender	Female
Head A: Coding	A
Head A: No. of poles	8
Head A: LED	No
Head A: Width across flats	SW13
Head A: Tightening torque	0.6 Nm
Head A: Knurled nut material	Zinc-pressure die casting, surface Ni
Head A: Body color	Black
Labeling sleeve side A	Yes
O-Ring:	Silica gel

Side B	
Head B: Connection	RJ45
Head B: Angle cable outlet	0°
Head B: Gender	Male
Head B: Coding	N/A
Head B: No. of poles	8
Head B: LED	No
Head B: Body color	Black
Labeling sleeve side B	Yes

Cables	
Shielded	Yes
Conductor structure	30 × 0.08 mm
AWG	26
External sheath: Material	PUR
External sheath: Color	/
Cable diameter	7.2±0.2mm
Wire cross section	40.7mm <sup>2</sup>

Electrical data	
Operating voltage	max.60VDC
Nominal voltage	300 V
Contact resistance	max. 30 mOhm
Operating current per contact	max. 2 A

Mechanical data	
Head A: Degree of protection	IP66K, IP67
Head B: Degree of protection	IP20
Bending radius (mobile)	min.15 x outer diameter
Bending radius (fixed)	min.8 x outer diameter
Torsion supported	

Environmental conditions	
Temperature range (mobile)	-25°C+70°C
Temperature range (fixed)	-25°C+80°C
Cable: Temperature range (fixed)	-40°C+80°C
Dragchain capable	Yes
Head A: Chemical resistance	No
Head A: Flame resistance	HB (UL 94)
Head A: Oil resistance	ASTM 1 oil, mineral oils, limited to hydraulic oils
Head A: Acid and alkali resistant	No

Technical data

Environmental conditions

Head A: Pollution degree	3
Head B: Chemical resistance	No
Head B: Flame resistance	HB (UL94)
Head B: Pollution degree	3

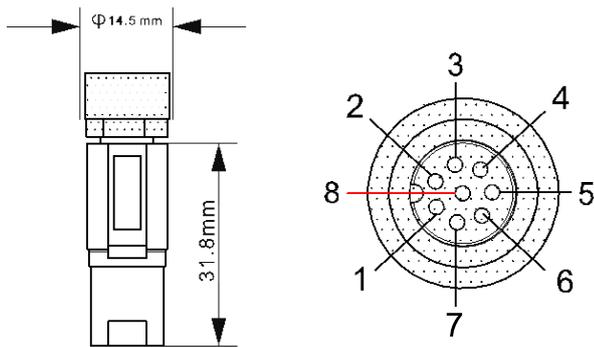
Environmental conditions

Cable: Silicone-free	Yes
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Side A

Technical drawing

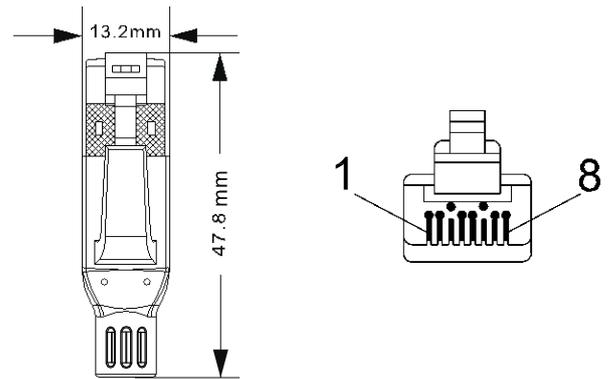
Coding



Side B

Technical drawing

Coding



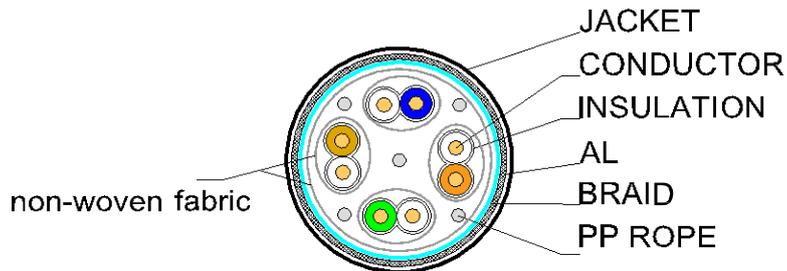
Connection diagram

SIDE A

SIDE B

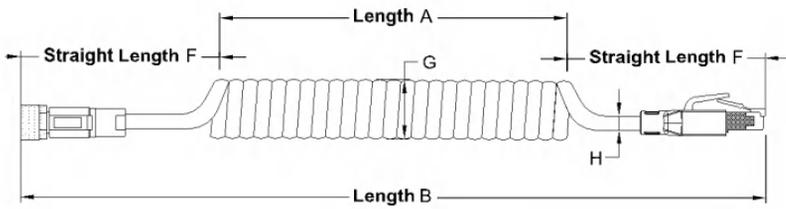
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4	2	ORANGE
5	3	WHITE/GREEN
7	4	BLUE
1	5	WHITE/BLUE
8	6	GREEN
2	7	WHITE/BROWN
3	8	BROWN
S	S	SHIELDED

Sectional view

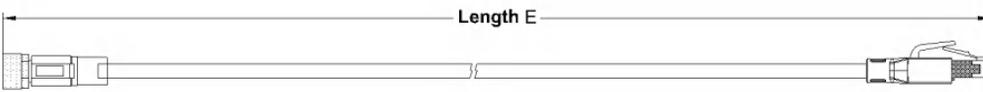
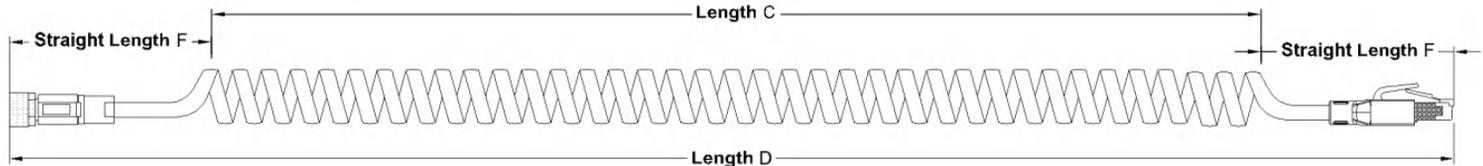


Ethernet Industrial Cable for IIoT  
**M12-A (Female) to RJ45 (Male) 8Pin  
 PUR Spiral Cable Assembly**

Article Number: M2UFFM8AR6B---51021103



G: Coiled OD: 28±1MM  
 H: Cable OD: 7.2±0.2MM



NOTED: Coiled cable has a useful extension range of approximately 3 times the retracted length of cable. Repeated extension beyond this upper limit length may result in permanent loss of coil memory.

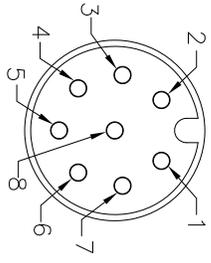
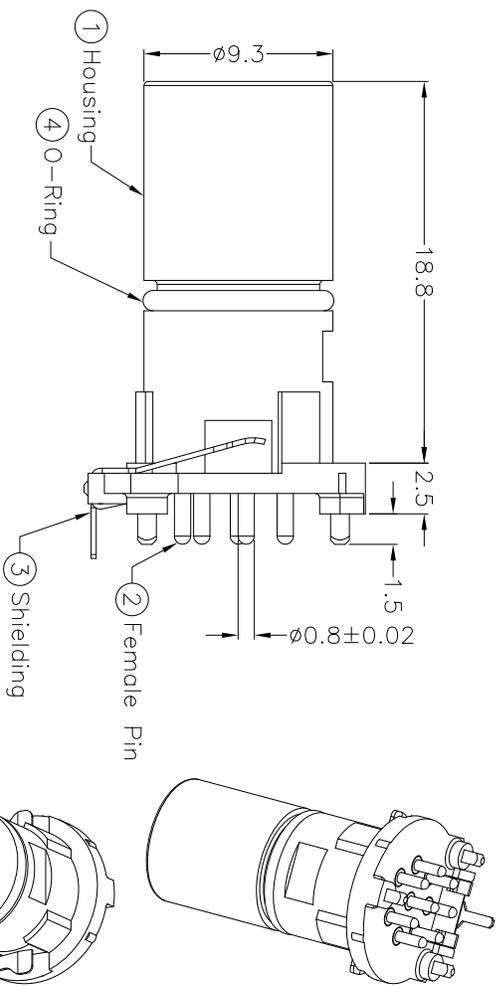
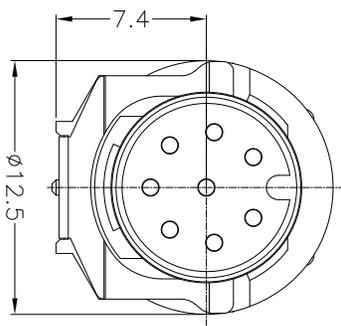
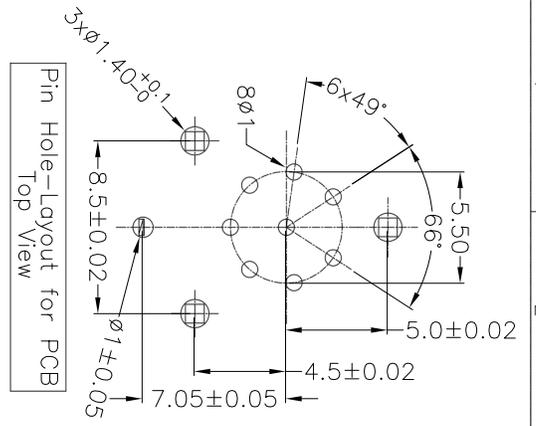
**ORDERING LENGTH:**  
**MAX OPERATING LENGTH D**  
**ORDERING PART NO. LENGTH B (COILED)**

**ELII-5040070-001= 0.6 Meter**  
**ELII-5040070-002= 0.8 Meter**  
**ELII-5040070-003= 1.05 Meter**

Straight Cable before coiled Length E	Length A	Length B	Length C	Length D	Length F
3.076M <sup>+35MM</sup> / <sub>-30MM</sub>	0.3M	0.6M <sup>+35MM</sup> / <sub>-15MM</sub>	0.9M	1.2M <sup>+35MM</sup> / <sub>-20MM</sub>	0.15M
4.926M <sup>+35MM</sup> / <sub>-30MM</sub>	0.5M	0.8M <sup>+35MM</sup> / <sub>-15MM</sub>	1.5M	1.8M <sup>+35MM</sup> / <sub>-20MM</sub>	0.15M
7.239M±50MM	0.75M	1.05M <sup>+35MM</sup> / <sub>-20MM</sub>	2.25M	2.55M <sup>+35MM</sup> / <sub>-30MM</sub>	0.15M

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Conn.  
Pin Assignment  
Front View

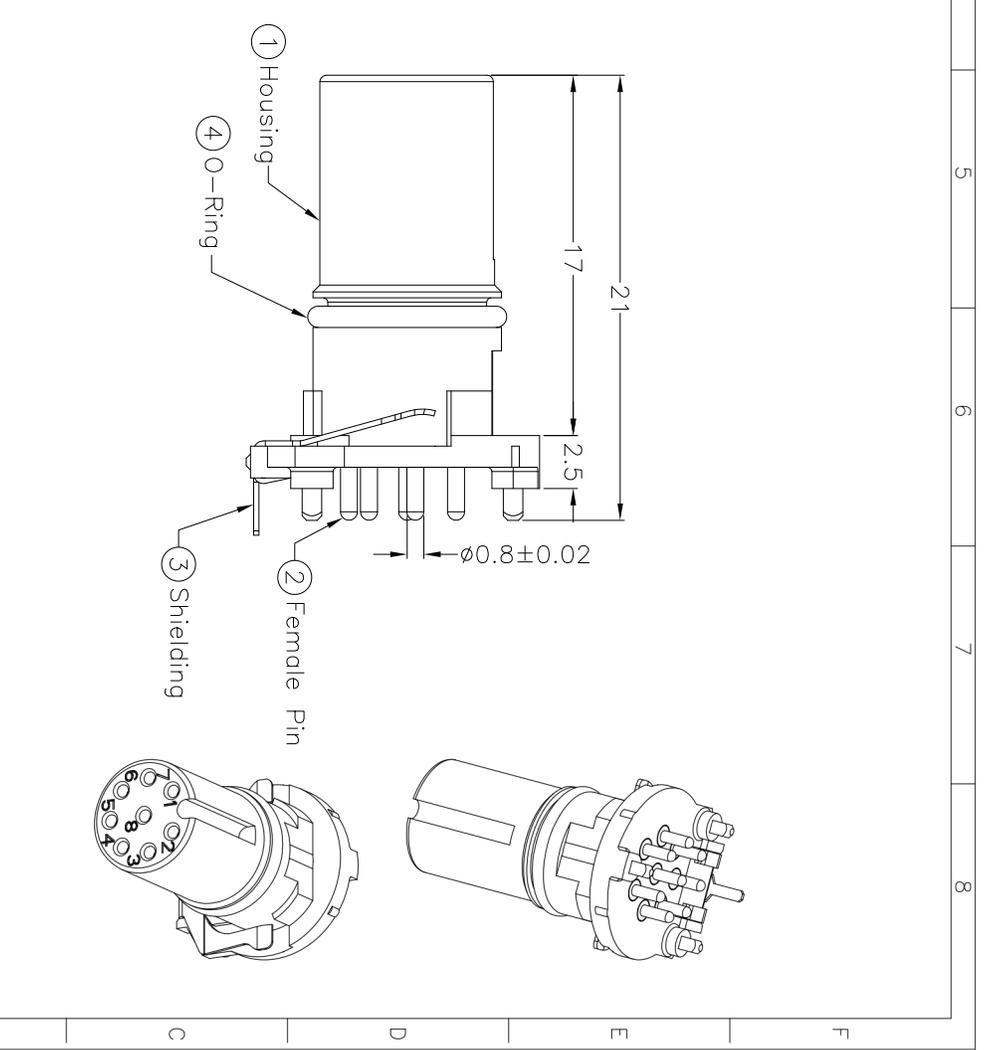
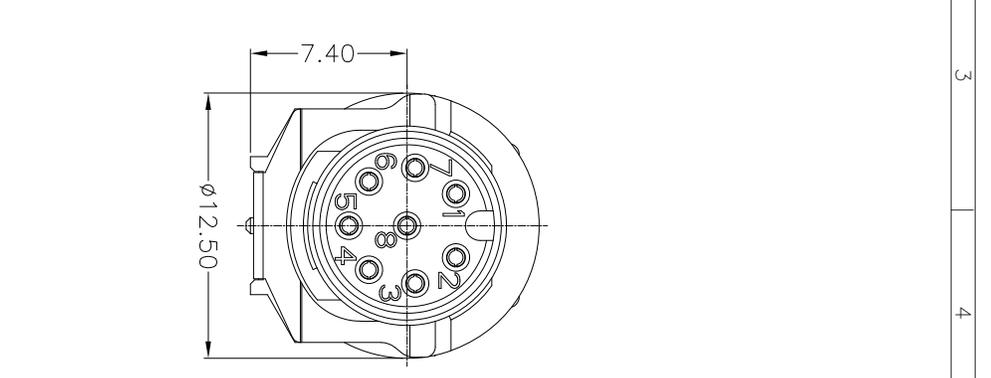
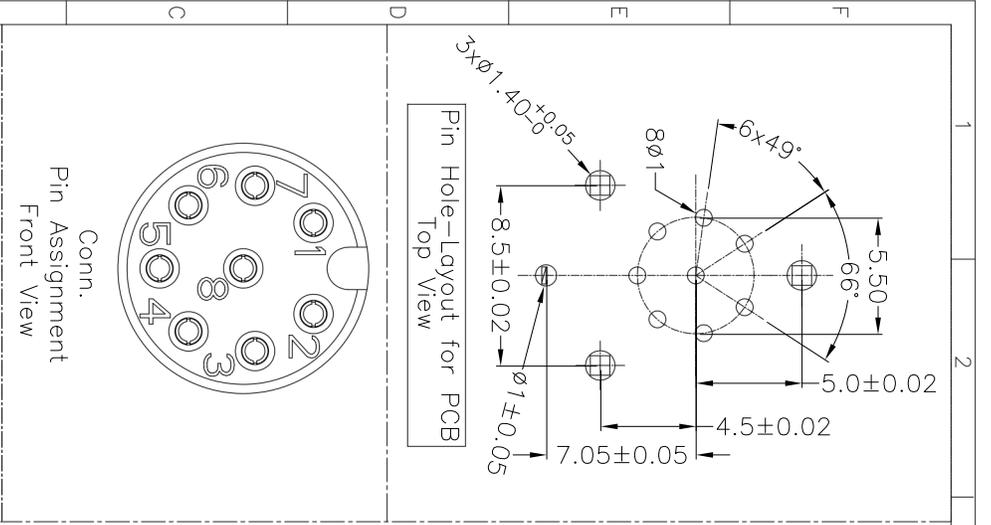
- Note:
- Material:
- ① Housing: Nylon+GF, Black.
  - ② Male Pin: Copper Alloy, Gold Plated.
  - ③ Shielding: Copper Alloy, Nickel Plated.
  - ④ O-Ring: Silicon, Gray.

Electrical Characteristics:

- \* Current rating: 2A
- \* Voltage rating: 30Va.c./d.c.

		THIS DOCUMENT SHALL NOT BE REPRODUCED, NOR SHALL THE INFORMATION CONTAINED HEREIN BE USED OR DISCLOSED TO OTHERS EXCEPT AS AUTHORIZED IN WRITING BY ELECTRONIC LINKS INTERNATIONAL, INC.	
		DESIGNED BY: SDR	26/Feb/26
CHECKED BY: XXX	DD/MM/YY	APPROVED BY: XXX	DD/MM/YY
PART NO. EL11-12A08-00PX-LDS-02		TITLE: M12 8PIN MALE, STRAIGHT, SHIELDED, CONTACT INSERT ONLY	
SIZE C	REV LEVEL A	LINEAR X.X	±0.1
SCALE NONE	SHEET 1	X.XXX	±0.05
		X.XXX	±0.025
		X.XXXX	±0.0125
EDGE/CORNER BREAKS		OUTSIDE MAX.	0.2
		INSIDE MAX.	0.5
			0.15





- Note:
- Material:
- ① Housing: Nylon+GF, Black.
  - ② Female Pin: Copper Alloy, Gold Plated.
  - ③ Shielding: Copper Alloy, Nickel Plated.
  - ④ O-Ring: Silicon, Gray.

Electrical Characteristics:

- \* Current rating: 2A
- \* Voltage rating: 30V a.c./d.c.

**ElectronicLinks inc**

THIS DOCUMENT SHALL NOT BE REPRODUCED, NOR SHALL THE INFORMATION CONTAINED HEREIN BE USED OR DISCLOSED TO OTHERS EXCEPT AS AUTHORIZED IN WRITING BY ELECTRONIC LINKS INTERNATIONAL, INC.

DESIGNED BY: SDR      26/Feb/26

CHECKED BY: XXX      DD/MM/YY

APPROVED BY: XXX      DD/MM/YY

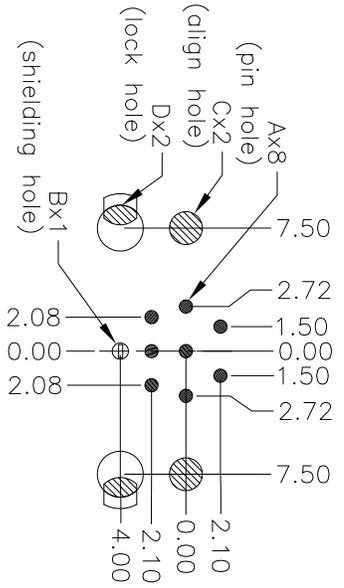
EDGE / CORNER BREAKS	ANGLES ±	
	OUTSIDE MAX.	INSIDE MAX.
	0.2°	0.5
		0.15

SIZE	REV LEVEL	LINEAR
C	A	X.X ±0.1
		X.XX ±0.05
		X.XXX ±0.025
		X.XXXX ±0.0125

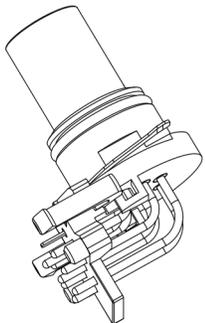
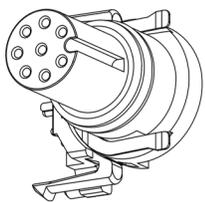
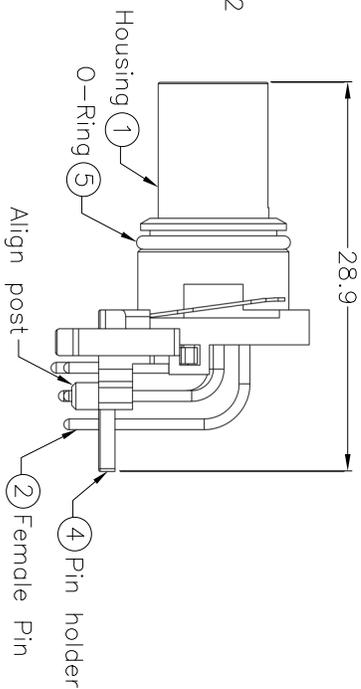
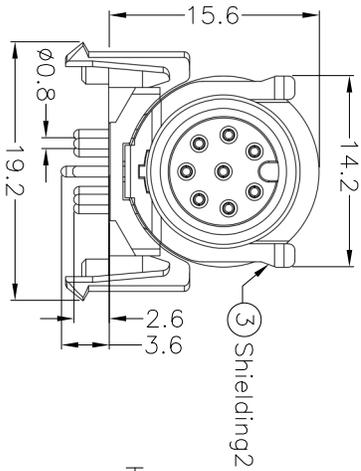
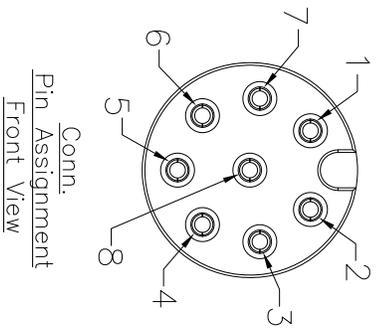
SCALE NONE      SHEET 1

PART NO. 12A08-00SX-LDS-02

TITLE: M12 8PIN FEMALE, STRAIGHT, SHIELDED, CONTACT INSERT ONLY



Ax8:  $\phi 1.0 \pm 0.05$   
 Bx1:  $\phi 1.0 \pm 0.05$   
 Cx2:  $\phi 2.05 \pm 0.05$   
 Dx2:  $\phi 2.8 \pm 0.05$



- Note:
- Material:
- ① Housing: Nylon+GF, Black.
  - ② Female Pin: Copper Alloy, Gold Plated.
  - ③ Shielding: Copper Alloy, Nickel Plated.
  - ④ Pin holder: LCP, Black.
  - ⑤ O-Ring: Silicon, UL 94 V-0, Gray.

Electrical Characteristics:

- \* Current rating: 2A
- \* Voltage rating: 30V a.c./d.c.

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DESIGNED BY:	SDR	02/Mar/26
CHECKED BY:	XXX	DD/MM/YY
APPROVED BY:	XXX	DD/MM/YY

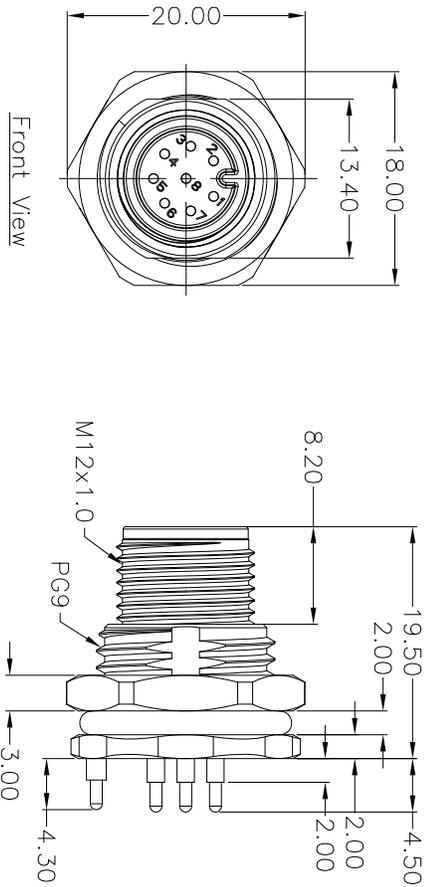
EDGE/ CORNER BREAKS	ANGLES ±	
	OUTSIDE MAX.	INSIDE MAX.
	0.5	0.15

SIZE	REV LEVEL	LINEAR
C	A	XX XXX XXXX XXXXX

SCALE NONE	SHEET	LINEAR
NONE	1	±0.1 ±0.05 ±0.025 ±0.0125

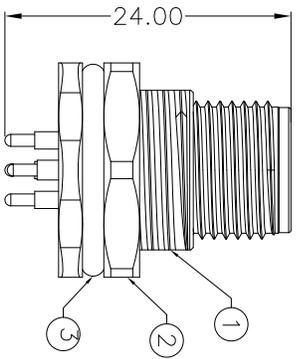
PART NO. ELI1-12A08-00SX-RDS-01

TITLE: M12 8PIN FEMALE FOR RIGHT ANGLE

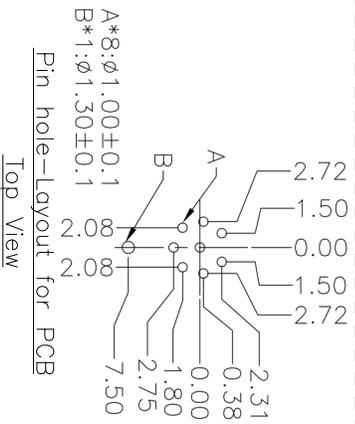


Front View

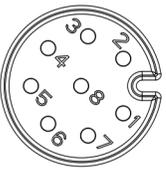
Right View



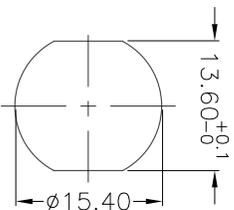
Bottom View



Pin hole-Layout for PCB  
Top View



Pin Assignments  
Front View



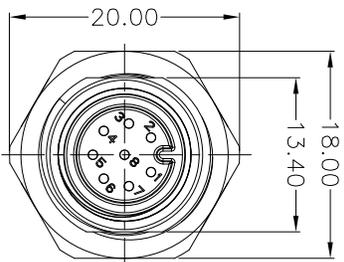
Panel Cut-out

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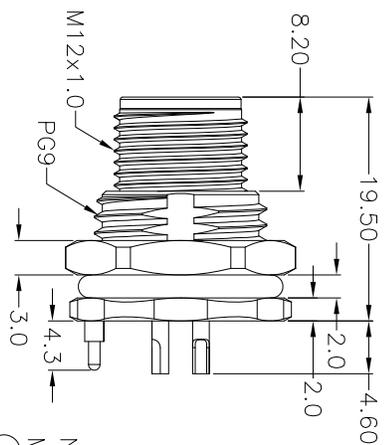
EDGES/ CORNER BREAKS		ANGLES ±	
OUTSIDE MAX.	INSIDE MAX.	0.2°	0.5°
0.15	0.15		
SIZE C	REV LEVEL A	LINEAR ±0.1	
SCALE NONE	SHEET 1	X.XX ±0.05	
		X.XXX ±0.025	
		X.XXXX ±0.0125	
PART NO. ELI1-12A08-P09F-LDS-A2		TITLE: M12 A-CODE 8PIN MALE PANEL TYPR	

- Note:  
 Material:  
 ① Connector:  
 \* Waterproof Rate: IP67  
 \* Housing: Nylon+GF,Black.  
 \* Male Pin: Copper Alloy,Gold Plated.  
 \* Shield: Zinc Alloy, Nickel Plated.  
 ② Screw Nut: Copper Alloy, Nickel Plated.  
 ③ O-Ring: Silicone, Black.

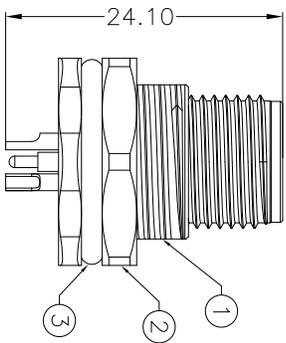
- Recommendation:  
 \* For Panel Thickness Max 4.5mm.  
 \* Nut Torque: 6-8 Kgf.cm.  
 Electrical Characteristics:  
 \* Current rating: 2A  
 \* Voltage rating: 30V.a.c./d.c.



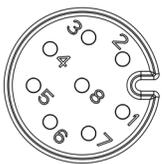
Front View  
for all pins.



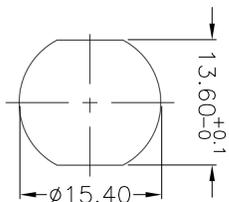
Right View



Bottom View



Pin Assignments  
Front View



Panel Cut-out

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APPROVED BY: XXX DD/MM/YY

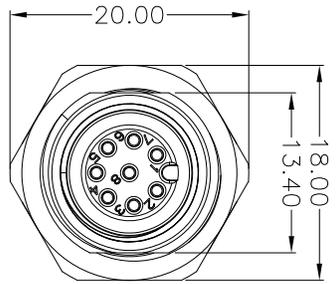
EDGE/ CORNER BREAKS	ANGLES ±	
	OUTSIDE MAX.	0.2'
INSIDE MAX.	0.5	
0.15		
SIZE	REV LEVEL	LINER
C	A	XX
SCALE NONE	SHEET	XXX
1	1	XXX
		±0.1
		±0.05
		±0.025
		±0.0125

PART NO. ELI1-12A08-P09F-LSS-A2

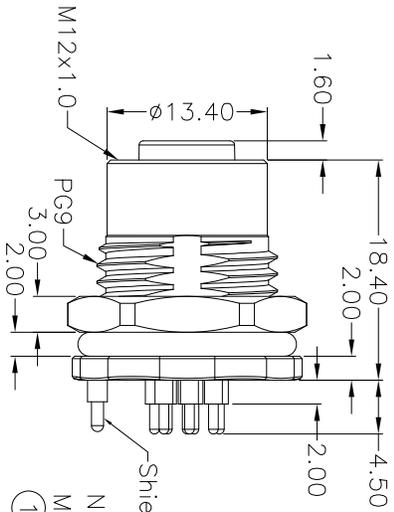
TITLE: M12 A-CODE 8PIN MALE TYPE

- Note:  
① Connector:  
\* Waterproof Rate: IP67  
\* Housing: Nylon+GF,Black.  
\* Male Pin: Copper Alloy,Gold Plated.  
\* Shield: Zinc Alloy, Nickel Plated.  
② Screw Nut: Copper Alloy, Nickel Plated.  
③ O-Ring: Silicone, Black.

Recommendation:  
\* For Panel Thickness Max 4.5mm.  
\* Nut Torque: 6-8 Kgf.cm.  
Electrical Characteristics:  
\* Current rating: 2A  
\* Voltage rating: 30Vd.c./d.c.



Front View  
for all pins.



Right View

Note:  
Shielding Pin

Material:

① Connector:

\* Waterproof Rate: IP67

\* Housing: Nylon+GF,Black.

\* Female Pin: Copper Alloy,Gold Plated.

\* Shield: Zinc Alloy, Nickel Plated.

② Screw Nut: Copper Alloy, Nickel Plated.

③ O-Ring: Silicone, Black.

④ O-Ring: Silicone, Black.

Recommendation:

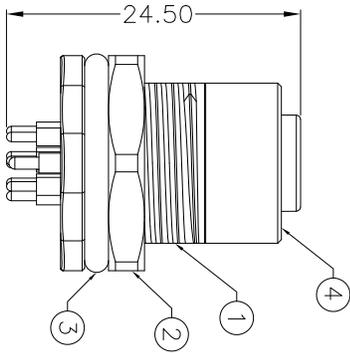
\* For Panel Thickness Max 4.5mm.

\* Nut Torque: 6-8 Kgf.cm.

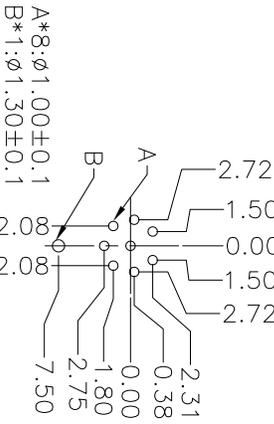
Electrical Characteristics:

\* Current rating: 2A

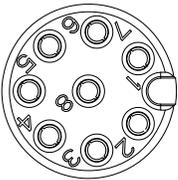
\* Voltage rating: 30V<sub>a.c.</sub>/d.c.



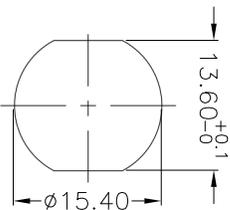
Bottom View



Pin hole—Layout for PCB  
Top View



Pin Assignments  
Front View



Panel Cut-out

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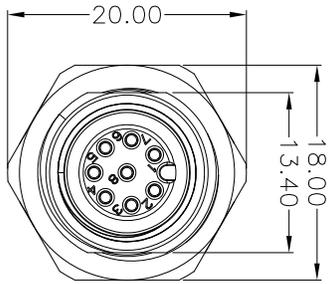
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APPROVED BY:	XXX	DD/MM/YY

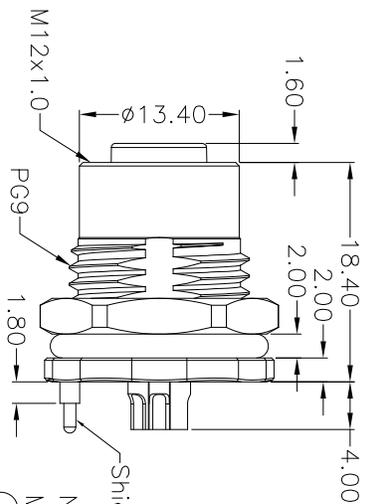
EDGE/ CORNER BREAKS	ANGLES ±	
	OUTSIDE MAX.	0.2°
	0.5	
	0.15	

SIZE	REV LEVEL	LINEAR
C	A	X.X ±0.1
SCALE NONE	SHEET 1	X.XX ±0.05
		X.XXX ±0.025
		X.XXXX ±0.0125

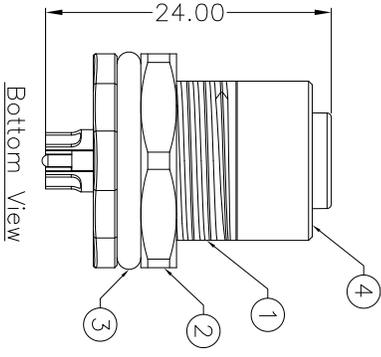
PART NO. ELI1-12A08-S09F-LDS-A2  
TITLE: M12 A-CODE 8PIN FEMALE PANEL TYPE



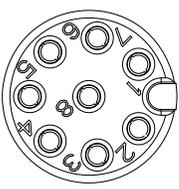
Front View  
for all pins.



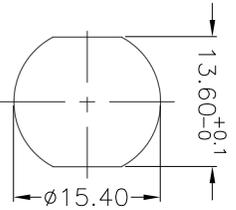
Right View



Bottom View



Pin Assignments  
Front View



Panel Cut-out

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CHECKED BY:	XXX	DD/MM/YY
APPROVED BY:	XXX	DD/MM/YY

- Note:  
Material:  
① Connector:  
\* Waterproof Rate: IP67  
\* Housing: Nylon+GF, Black.  
\* Female Pin: Copper Alloy, Gold Plated.  
\* Shield: Zinc Alloy, Nickel Plated.  
② Screw Nut: Copper Alloy, Nickel Plated.  
③ O-Ring: Silicone, Black.  
④ O-Ring: Silicone, Black.

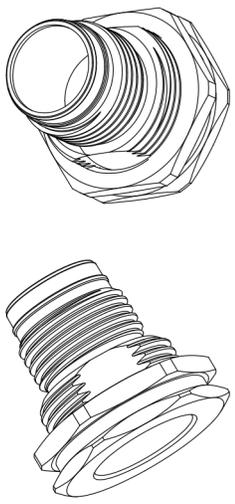
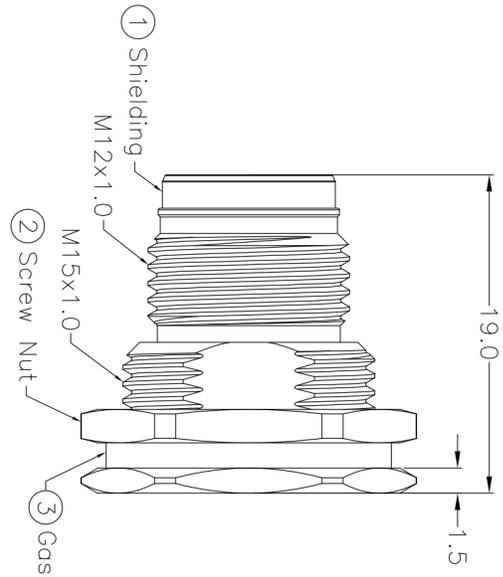
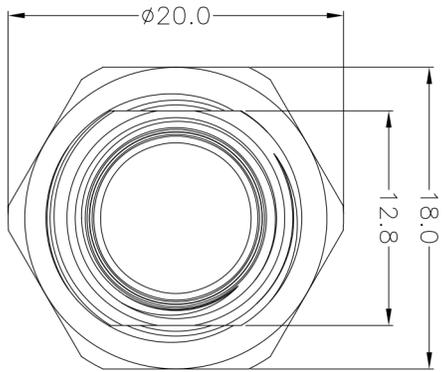
Recommendation:  
\* For Panel Thickness Max 4.5mm.  
\* Nut Torque: 6-8 Kgf.cm.  
Electrical Characteristics:  
\* Current rating: 2A  
\* Voltage rating: 30Va.c./d.c.

EDGE/ CORNER	BREAKS	ANGLES ±	
		OUTSIDE MAX.	INSIDE MAX.
C	A	0.5	0.15

SIZE	REV LEVEL	LINEAR
C	A	X.X ±0.1 X.XX ±0.05 X.XXX ±0.025 X.XXXX ±0.0125

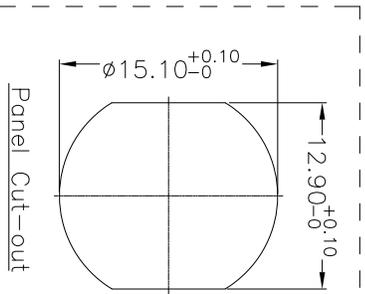
SCALE NONE	SHEET 1	X.XXXX
------------	---------	--------

PART NO.	ELLI-12A08-S09F-LSS-A2
TITLE:	M12 A-CODE 8PIN FEMALE PANEL TYPE



Note:  
 Material:  
 ① Shielding: Copper Alloy, Nickel Plated.  
 ② Screw Nut: Copper Alloy, Nickel Plated.  
 ③ Gasket: Silicone, Black Grey.

Recommendation:  
 \* For Panel Thickness Max 3.0mm.  
 \* Nut Torque: 6-8 Kgf.cm.



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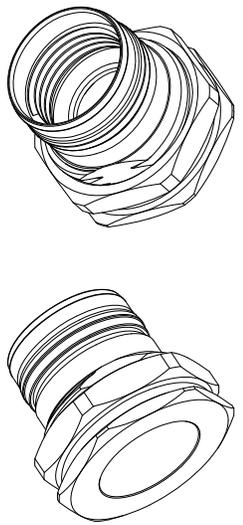
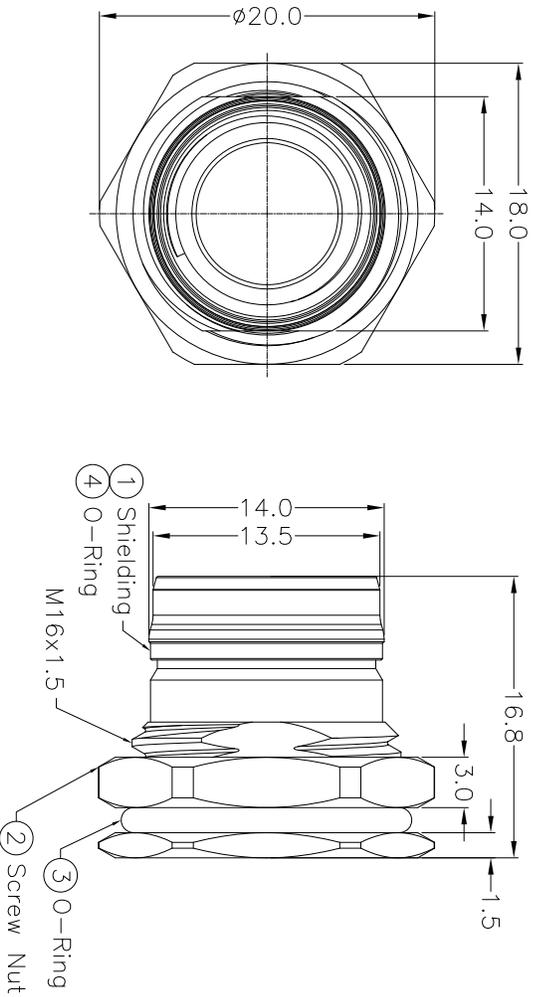
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DESIGNED BY:	SDR	02/Mar/26
CHECKED BY:	XXX	DD/MM/YY
APPROVED BY:	XXX	DD/MM/YY

EDGE/ CORNER BREAKS	ANGLES ±	
	OUTSIDE MAX.	0.2°
INSIDE MAX. <td>0.5</td> <td></td>	0.5	
SIZE <td>REV LEVEL <td>LINEAR</td> </td>	REV LEVEL <td>LINEAR</td>	LINEAR
SCALE NONE <td>A</td> <td>±0.1 X.XX ±0.05 X.XXX ±0.025 X.XXXX ±0.0125</td>	A	±0.1 X.XX ±0.05 X.XXX ±0.025 X.XXXX ±0.0125

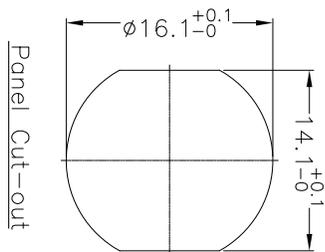
PART NO. ELI-12000-P15F-P00-00

TITLE: M12 PUSH PULL MALE SHIELDING FOR FRONT MOUNT (M15x1)



Note:  
Material:  
① Shielding: Copper Alloy, Nickel Plated.  
② Screw Nut: Copper Alloy, Nickel Plated.  
③ O-Ring: Silicone, Black Grey.  
④ O-Ring: Silicone, Black Grey.

Recommendation:  
\* For Panel Thickness Max 2.0mm.  
\* Nut Torque: 6-8 Kgf.cm.



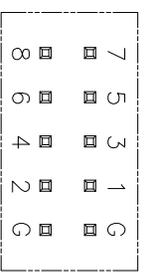
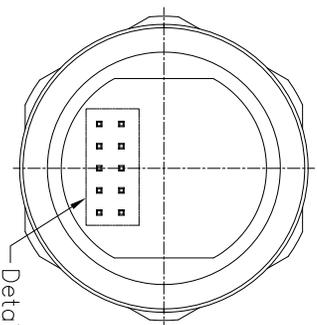
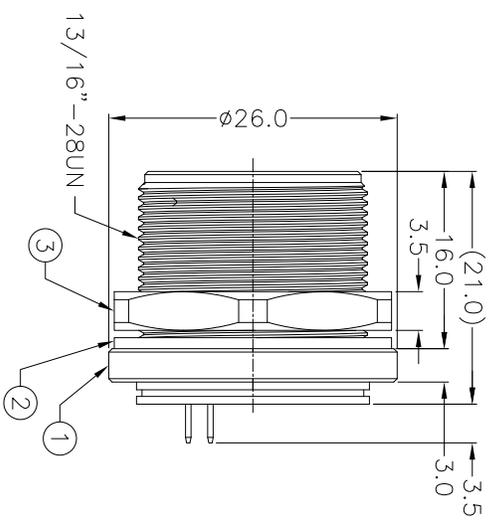
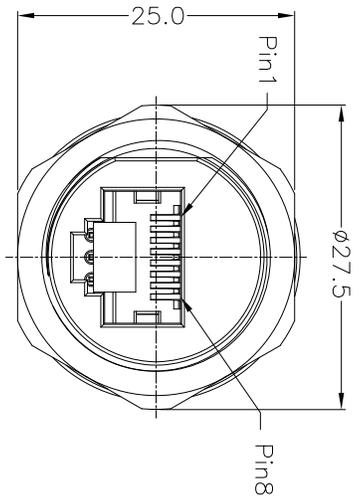
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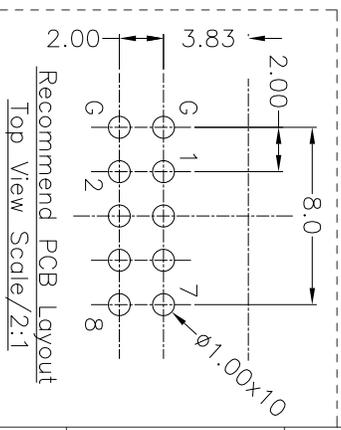
DESIGNED BY:	SDR	02/Mar/26
CHECKED BY:	XXX	DD/MM/YY
APPROVED BY:	XXX	DD/MM/YY

EDGE/ CORNER BREAKS	ANGLES ±		0.2°
	OUTSIDE MAX.	INSIDE MAX.	0.5
SIZE	REV LEVEL	LINEAR	±0.1
SCALE NONE	SHEET 1	X.XX	±0.05
		X.XXX	±0.025
		X.XXXX	±0.0125
PART NO.	ELI-12000-S16F-P00-00		

TITLE: M12 PUSH PULL FEMALE SHIELDING FOR FRONT MOUNT (M16x1.5)

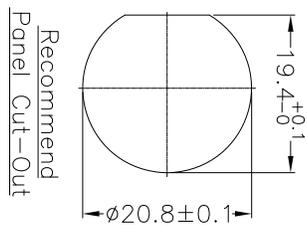


Detail "A"  
Scale/2:1



Recommend PCB Layout  
Top View Scale/2:1

- Note:
- \* IP Grade: IP67
  - \* RJ45 Jack Panel Connector
  - ① \* Housing: Nylon+GF,Black
  - Terminal: Copper Alloy,Gold Plated
  - Shielding: Zinc Alloy,Nickel Plated
  - Ground: Copper Alloy,Tin Plated
  - ② \* Screw Nut: Copper Alloy,Nickel Plated
  - ③ \* Gasket: Silicone,Grey
  - \* Recommendation:
  - For Panel Thickness Max.: 4mm
  - Nut Torque: 8~12kgf.cm
  - \* Electrical Characteristics:
  - Rated current: 1.5A
  - Rated voltage: 125V



Recommend  
Panel Cut-Out

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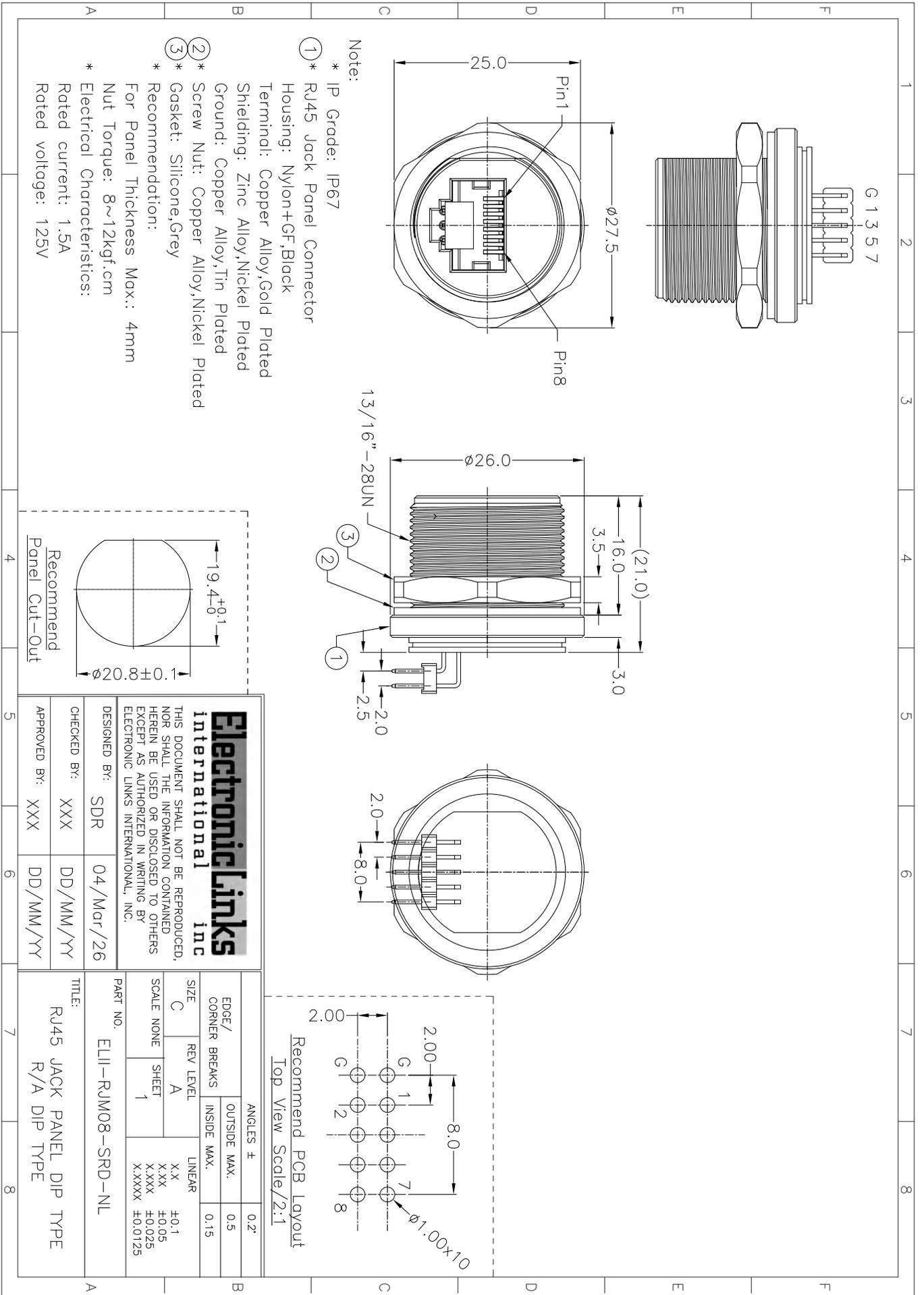
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APPROVED BY:	XXX	DD/MM/YY

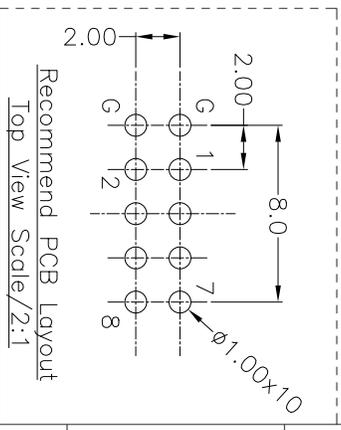
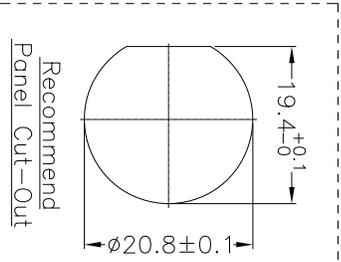
EDGE/ CORNER BREAKS		ANGLES ±	
SIZE	REV LEVEL	OUTSIDE MAX.	INSIDE MAX.
C	A	0.5	0.15
SCALE NONE	SHEET 1	LINEAR	±0.1
			±0.05
			±0.025
			±0.0125

PART NO. ELLI-RJM08-SLD-NL

TITLE: RJ45 JACK PANEL DIP TYPE



Note:  
 \* IP Grade: IP67  
 (1) \* RJ45 Jack Panel Connector  
 Housing: Nylon+GF,Black  
 Terminal: Copper Alloy,Gold Plated  
 Shielding: Zinc Alloy,Nickel Plated  
 Ground: Copper Alloy,Tin Plated  
 (2) \* Screw Nut: Copper Alloy,Nickel Plated  
 (3) \* Gasket: Silicone,Grey  
 \* Recommendation:  
 For Panel Thickness Max.: 4mm  
 Nut Torque: 8~12kgf.cm  
 \* Electrical Characteristics:  
 Rated current: 1.5A  
 Rated voltage: 125V



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		CHECKED BY: XXXX	DD/MM/YY	TITLE: RJ45 JACK PANEL DIP TYPE
APPROVED BY: XXXX	DD/MM/YY	R/A DIP TYPE		
EDGES/ CORNER BREAKS SIZE C SCALE NONE SHEET 1		ANGLES ± OUTSIDE MAX. INSIDE MAX.	REV LEVEL A LINEAR X.XX X.XXX X.XXX X.XXXX	0.2° 0.5 0.15 ±0.1 ±0.05 ±0.025 ±0.0125

**Editor's Contact:**

Francesco Liburdi

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Tel. Taiwan: + 886 9083 112860

[fliburdi@electronic-links.com](mailto:fliburdi@electronic-links.com)

**M12-A code 8: PCB & solder cup male & female, shielded and unshielded. R/A and straight, shielded are with screw locking and push pull locking**  
**RJ45 : PCB female**



**DESCRIPTION**

- Female straight (insert)
- Male straight (insert)
- Male r/a pcb (insert)
- Female r/a pcb (insert)
- Male straight pcb
- Female straight pcb
- Male solder cup
- Female solder cup
- Female straight pcb RJ45
- Female r/a pcb RJ45
- Male shield shell for male insert
- Female shield shell for female insert

**PART NUMBER**

- ELII-12A08-00SX-LDS-02
- ELII-12A08-00PX-LDS-02
- ELII-12A08-00PX-RDS-01
- ELII-12A08-00SX-RDS-01
- ELII-12A08-P09F-LDS-A2
- ELII-12A08-S09F-LDS-A2
- ELII-12A08-P09F-LSS-A2
- ELII-12A08-S09F-LSS-A2
- ELII-RJM08-SLD-NL
- ELII-RJM08-SRD-NL
- ELII-12000-P15F-P00-00
- ELII-12000-S16F-P00-00

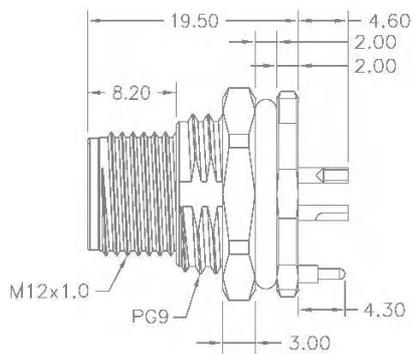
**OTHER CONFIGURATIONS AVAILABLE, CONTACT [sales@electronic-links.com](mailto:sales@electronic-links.com)**

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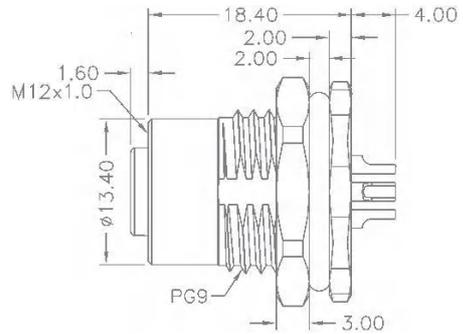


**One-Pieces**  
**Front Mount (Solder)**

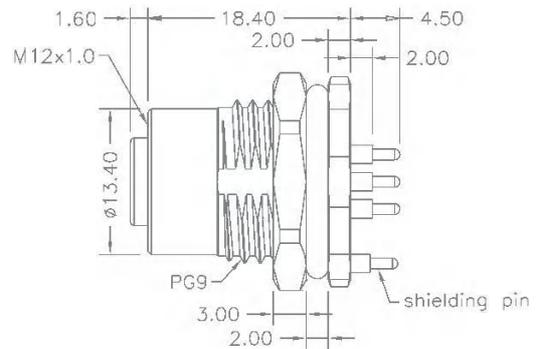
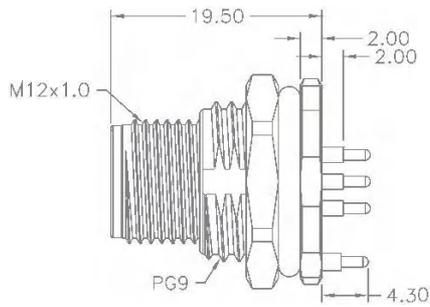
Male



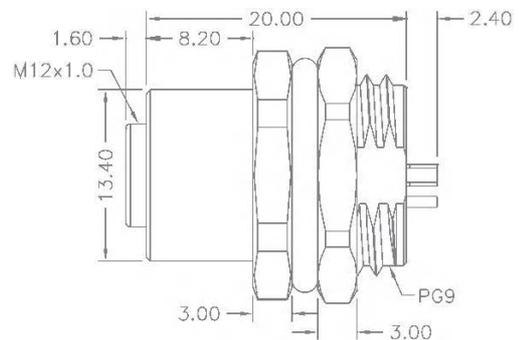
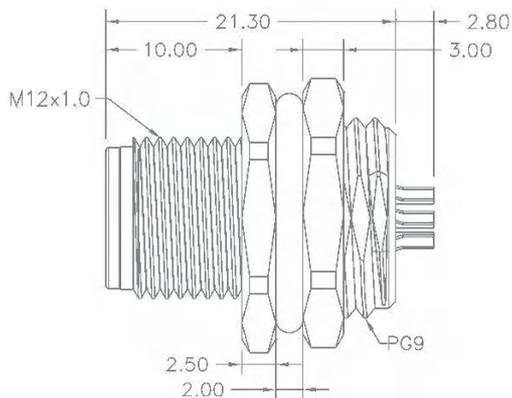
Female



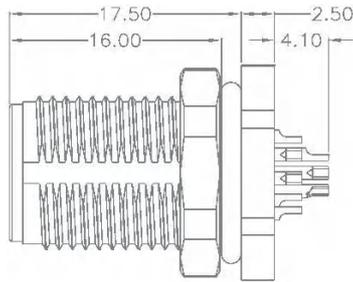
**Front Mount (Dip)**



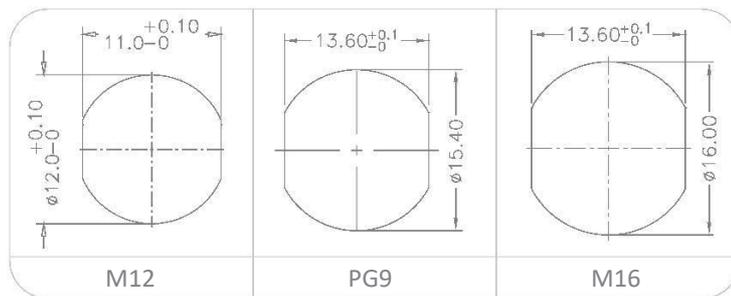
**Rear Mount (Solder)**



## One-Pieces



## Panel Cut-Out



## Technical Characteristics

- Shell material : Brass / Zinc
- Housing material : Nylon PA66
- Molding material : PVC / TPU
- Contact : Copper Alloy
- Applicable temperature :  $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$
- Insulation resistance :  $\geq 100\text{m}\Omega$
- Contact resistance :  $\leq 5\text{m}\Omega$
- Protection level : IP67
- Mating and Unmating force :  $\geq 500$

## Electrical Features

Female Key View						
Male Key View						
Code Type	A-Code					
Pin Way	3PIN	4PIN	5PIN	8PIN	12PIN	17PIN
Rated Current	4A		2A		1.5A	
Rated Voltage	250V a.c./d.c.		60V a.c./d.c.	30V a.c./d.c.		

Female Key View				
Male Key View				
Code Type	B-Code	D-Code	X-Code	Y-Code
Pin Way	5PIN	4PIN	8PIN	8PIN
Rated Current	4A		0.5A	6A/0.5A
Rated Voltage	60V a.c./d.c.	250V a.c./d.c.	60V a.c./d.c.	50V a.c./d.c.

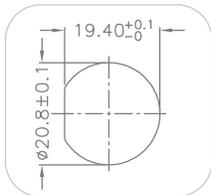
Female Key View				
Male Key View				
Code Type	S-Code	T-Code	K-Code	L-Code
Pin Way	4PIN	4PIN	5PIN	5PIN
Rated Current	12A	4A	12A	12A
Rated Voltage	630V a.c./d.c.	63V a.c./d.c.	630V a.c./d.c.	63V a.c./d.c.

# Electronic Links international inc

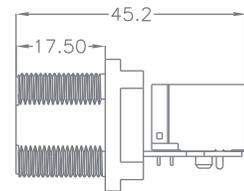
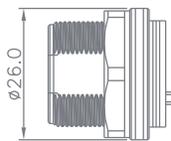
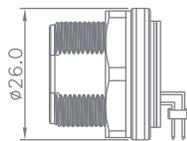
## Technical Characteristics

- Shell material : Brass / Zinc / PA66
- Housing material : Nylon PA66
- Molding material : PVC / TPU
- Contact : Copper Alloy
- Insulation resistance: DC500V  $\pm$  10%
- Current Rating: 1.5A
- Recommend AWG: 24~26AWG
- Protection level: IP67
- Panel Mount Connector: 40°C~+105°C
- Cable End Connector: 40°C~+85°C

### PANEL CUT – OUT



### PANEL SIGNAL



[www.electronic-links.com](http://www.electronic-links.com)

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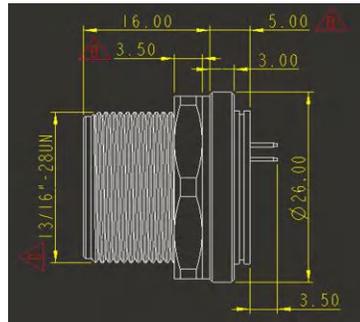
Tel. Italy: + 39.348.6578677

Tel. Taiwan: + 886 9083 112860

[fliburdi@electronic-links.com](mailto:fliburdi@electronic-links.com)

**IP67, RJ45, panel-mount metal PCB connector (with a sealed mating cable) is typically used anywhere standard Ethernet is needed but the environment is wet, dusty, or rough: industrial automation & robotics, outdoor networking, transportation, security & surveillance, etc.**

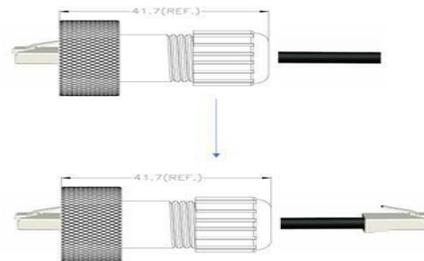
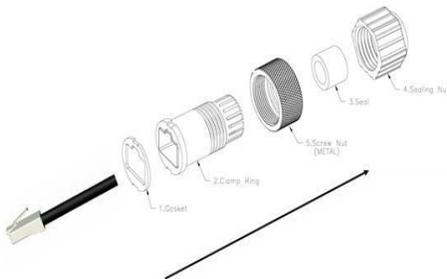
- **IP67 RJ45 FEMALE PANEL MOUNT METAL WITH STRAIGHT TAILS PCB**  
**P/N: ELII-RJM08-C20F-SLD-00**
- **IP67 RJ45 MALE METAL MATING TO ELII-RJM08-C20F-SLD-00**  
**P/N: ELII-RJM00-SASP-S00**
- **IP67 METAL CUP FOR THE FEMALE PANEL MOUNT CONNECTOR**  
**P/N: ELII-CAPS0-CCXM-RC0-00**



**ELII-RJM08-C20F-SLD-00**



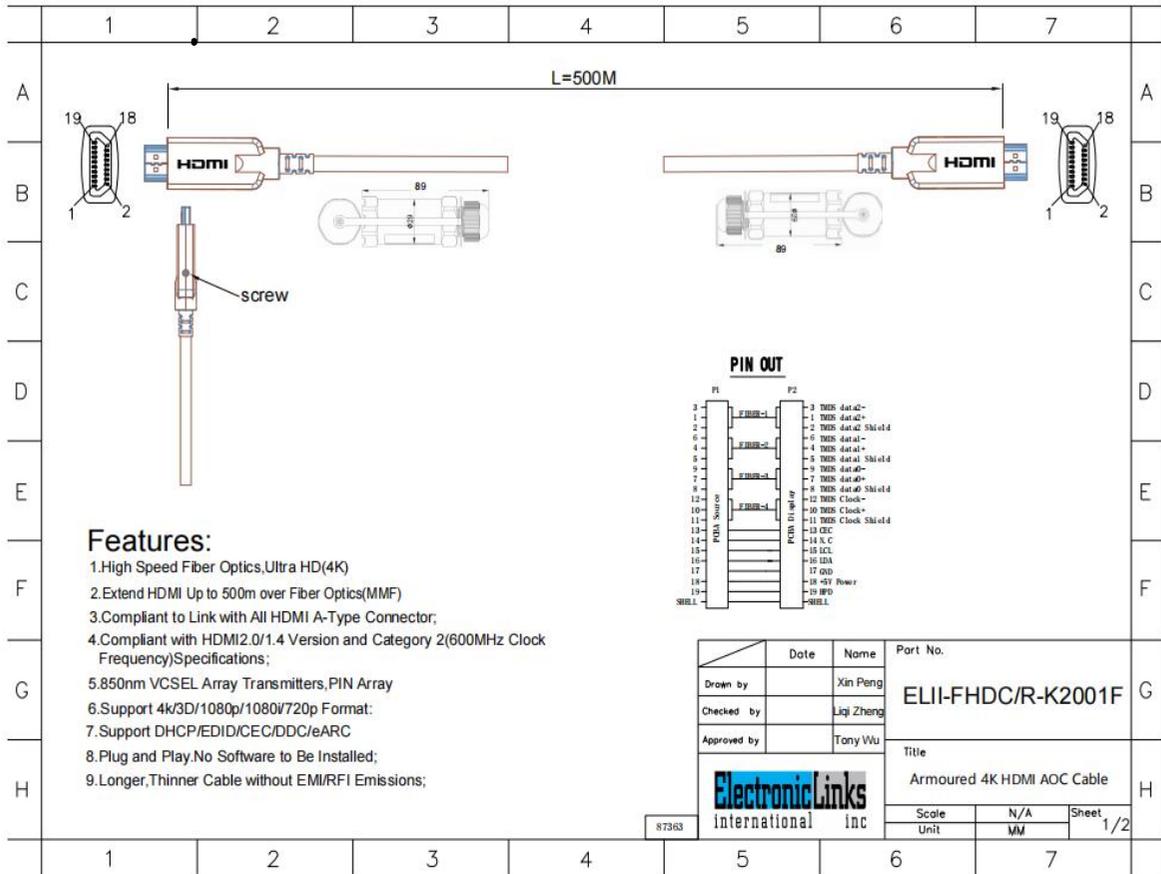
**ELII-CAPS0-CCXM-RC0-00**



**ELII-RJM00-SASP-S00**

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# ELII-FHDCR-K2001F



SPECIFICATION:		(2C*30#+DA)+3C*28#+2C*24#+Optical Fibber x 4C+FILLER+Armored		CONSTRUCTION D.W.G	
ITEM		SPECIFICATION			
CONDUCTOR	AWG	30AWG	28AWG		
	MATERIAL	TINNED COPPER	TINNED COPPER		
	COND.SIZE	7/0.127mm	7/0.20mm		
	MIN.AVG.THICK	0.45mm	0.15mm		
INSULATION	MATERIAL	FM-PE	PP		
	O.D	1.30±0.05mm	0.90±0.05mm		
	N.O.	2C	3C		
DRAIN	MATERIAL	TINNED COPPER			
	SIZE	7/0.10mm			
ALMYLAR	COVERAGE	100%			
	OVERLAP	25% MIN			
	Cond.Size	OM3/150			
	Diameter	1.0±0.05mm			
Glass Optical	Color of jacket	WHITE			
	N.O.	4C			
ALMYLAR	COVERAGE	100%			
	OVERLAP	25% MIN			
	MIN.AVG.THICK	0.40mm			
JACKET	MATERIAL	TPU/60P			
	COLOUR	GREY			
	O.D	6.00±0.15mm			
				COLOUR CODE:	
				2C+DA: 1. pink 2. white	
				3C: 1. yellow 2. orange 3. blue	
				2C: 1. black 2. red	
				MARKING	
				REMARK	
ELECTRICAL CHARACTERISTICS		PHYSICAL PROPERTIES		PART NO. ELII-FHDCR/C-K2001F	
1.Rating: Temp 80°C				APPROVED	Tony Wu
2. Conductor Resistance: at 20°C MAX				CHECKED	Liqi Zheng
30AWG: 381Ω/km; 28AWG: 239Ω/km;				DRAWING	Xin Peng
24AWG: 94.2Ω/km;				CUSTOMER	
3. Insulation Resistance: 10MΩ/Km min at 20°C				REV	A/0
				DATE	2020/11/23

# ELII-FHDCR-K2001F



Carton Details

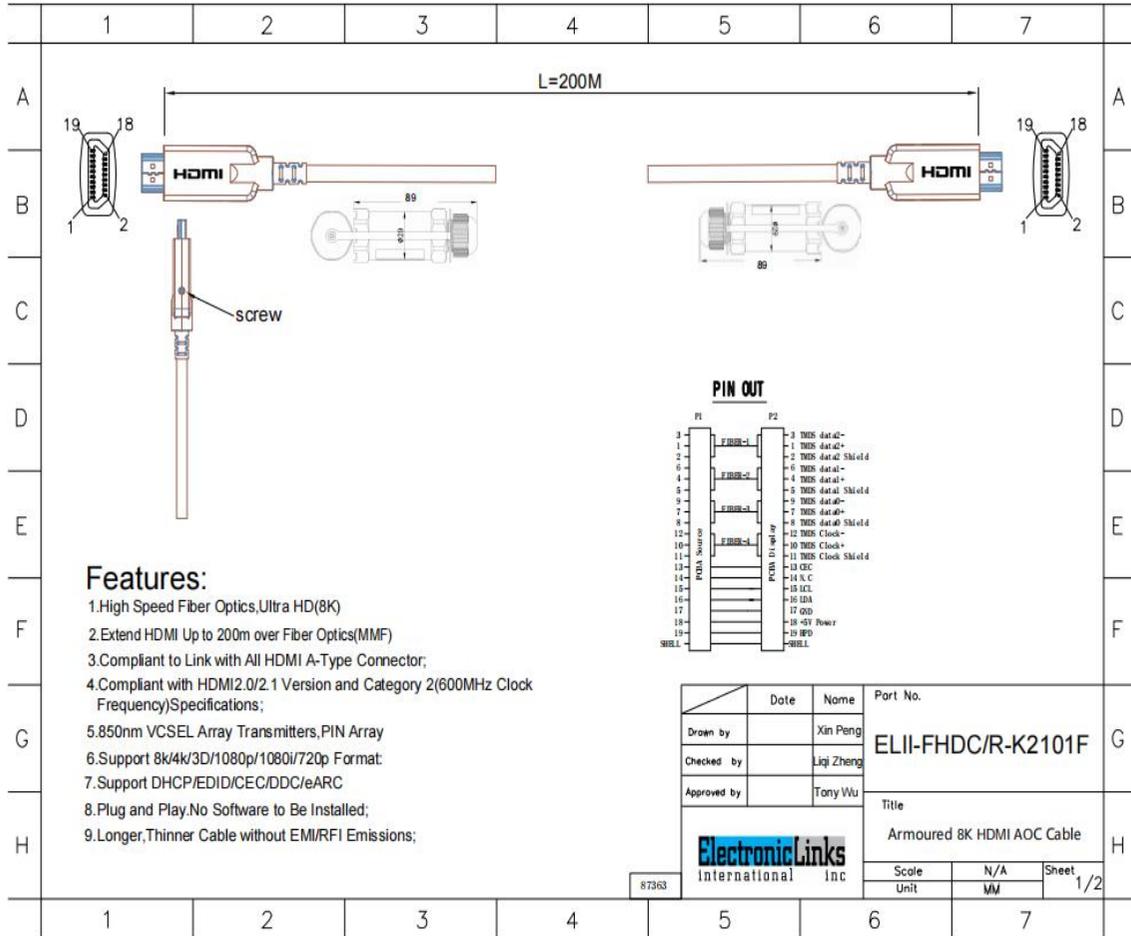
P/N	Cable Length	Quantity (Carton)	Measurement (Carton)	N. W. (Carton)	G.W. (Carton)
PCD380	300M	1PC	400*310*510mm	23.8kg	24.3kg

Date		Name		Part No.	
Drawn by		Xin Peng		ELII-FHDR-K2001F	
Checked by		Liqi Zheng		Title	
Approved by		Tony Wu		Armoured 4K HDMI AOC Cable	
Scale		N/A		Sheet	
Unit		MM		2/2	



187363

# ELII-FHDC-R-K210F



SPECIFICATION: (2C*30#+DA)+3C*28#+2C*24#+Optical Fibber x 4C+FILLER+Armored				CONSTRUCTION D.W.G		
ITEM	SPECIFICATION					
CONDUCTOR	AWG	30AWG	28AWG			24AWG
	MATERIAL	TINNED COPPER	TINNED COPPER			TINNED COPPER
	COND.SIZE	7/0.10 mm	7/0.127 mm			7/0.20 mm
	MIN.AVG.THICK	0.45 mm	0.10 mm			0.15 mm
INSULATION	MATERIAL	FM-PE	PP			PP
	O. D	1.30±0.05 mm	0.62±0.05 mm			0.90±0.05 mm
	N.O.	2C	3C			2C
DRAIN	MATERIAL	TINNED COPPER				
	SIZE	7/0.10 mm				
ALMYLAR	COVERAGE	100%				
	OVERLAP	25% MIN				
	Cond.Size	OM3/150				
Glass Optical	Diameter	1.0±0.05 mm				
	Color of jacket	WHITE				
	N.O.	4C				
ALMYLAR	COVERAGE	100%				
	OVERLAP	25% MIN				
	MIN.AVG.THICK	0.40 mm				
JACKET	MATERIAL	TPU/60P				
	COLOUR	GREY				
	O. D	6.00±0.15 mm				
ELECTRICAL CHARACTERISTICS				PHYSICAL PROPERTIES		
1.Rating: Temp 80°C						
2. Conductor Resistance: at 20°C MAX						
30AWG: 381Ω/km; 28AWG: 239Ω/km;						
24AWG: 94.2Ω/km;						
3. Insulation Resistance: 10MΩ/Km min at 20°C						
				COLOUR CODE:		
				2C+DA: 1. pink 2. white		
				3C: 1. yellow 2. orange 3. blue		
				2C: 1. black 2. red		
				MARKING		
				REMARK		
		PART NO.	ELII-FHDC/R-K2101F			
APPROVED	Tony Wu		CUSTOMER			
CHECKED	Liqi Zheng		REV	A/0		
DRAWING	Xin Peng		DATE	2020/11/23		

# ELII-FHDR-K210F

	1	2	3	4	5	6	7																																			
A								A																																		
B								B																																		
C								C																																		
D								D																																		
E	<p>Carton Details</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>P/N</th> <th>Cable Length</th> <th>Quantity (Carton)</th> <th>Measurement (Carton)</th> <th>N.W. (Carton)</th> <th>G.W. (Carton)</th> </tr> </thead> <tbody> <tr> <td>PCD380</td> <td>200M</td> <td>1pcs</td> <td>400*310*510mm</td> <td>15.8kg</td> <td>16.2kg</td> </tr> </tbody> </table>							P/N	Cable Length	Quantity (Carton)	Measurement (Carton)	N.W. (Carton)	G.W. (Carton)	PCD380	200M	1pcs	400*310*510mm	15.8kg	16.2kg	E																						
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G	G																																									
H	H																																									
1	2	3	4	5	6	7	8																																			

MIL-DTL-38999 to RJ45  
Shell size 15 with logo

**ElectronicLinks**  
international inc



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[fliburdi@electronic-links.com](mailto:fliburdi@electronic-links.com)

**SMI SOLUTIONS USING PLASTIC OPTICAL CABLE (POF)**

**GENERAL OFFERING**

1. In accordance with IEEE 1394b-2002 and IEC 61754-21 standard
2. Speed to 200 MBd
3. Distance to 100 meters
4. RoHS
5. Socket: thru hole and SMT
6. Adapter
7. Cable Plug to Plug, and Plug to open



**TYPICAL APPLICATIONS:**

1. Automation
2. Industrial
3. Medical
4. Avionics
5. Home networking

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# Long Haul Cable Solution



Long haul cables connect two distant devices. To enable machine vision more widely adapted to the on-site conditions.

## Long Haul Cables Apply Widely in Different Scenarios

- ▶ Machine vision detection equipment setting for automatic factory
- ▶ Centralized control room
- ▶ Big size monitor / parts inspection
- ▶ Hawk-eye in large sports field
- ▶ Handheld device for bug size parts inspection
- ▶ Large smart agricultural machinery
- ▶ Sites require customized long distance cable setting



## E.L.I.I. Provides a Complete Range of Long Haul Cables for Devices with Different Interfaces



### 1. GigE 、CoaXpress Cables

In general, high-quality GigE or CoaXpress cables can support long haul solutions. E.L.I.I. GigE solution is up 80 meters, CXP-6 is up to 40 meters, and CXP-12 is up to 30 meters.

### 2. USB Active Cable: ACC, AOC

USB cables optimize the signal through repeater to extend the transmission distance. E.L.I.I. USB ACC is up to 15 meters, USB AOC is up to 30 meters.

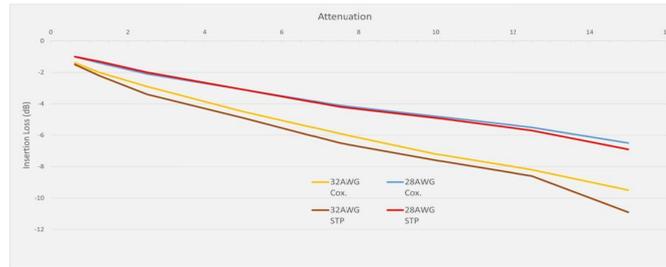
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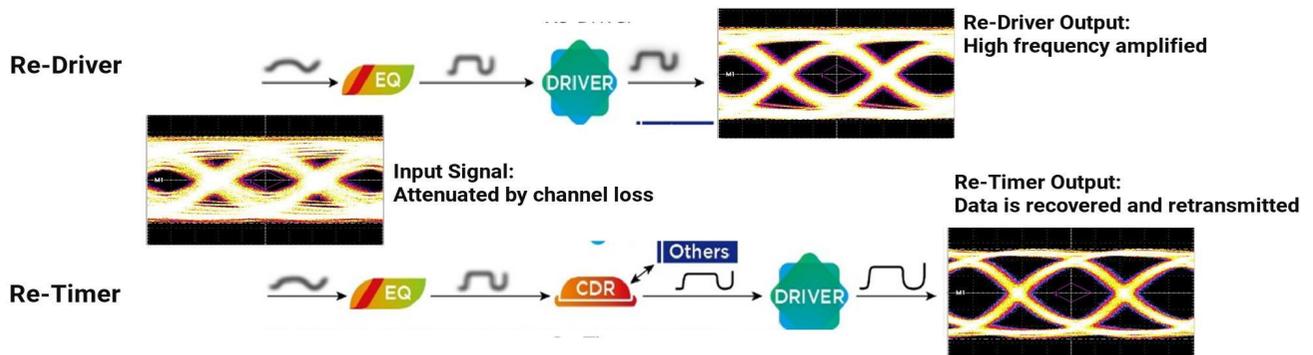
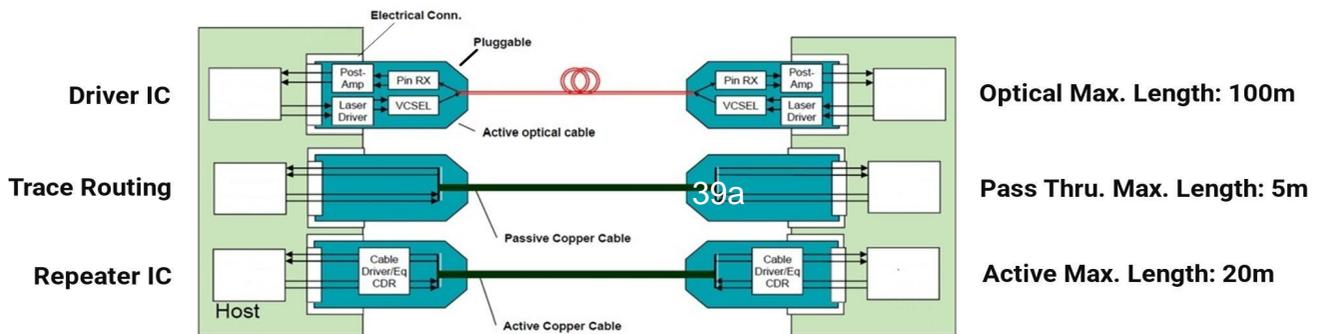
# Long Haul Cable Solution

## Principles for Long Haul Cable Solution

### 1. Conductor 's gauge and cable structure affect the signal attenuation degree



### 2. Chip architecture affects the quality of long distance transmission signal



## E.L.I.I. Long Haul Cables Advantages

- ▶ Complete range of product lines for one-stop solution.
- ▶ Our R&D team has capability to design circuit boards and provides customized solutions.
- ▶ Products can be applied in industrial environment.
- ▶ Cables transmission is stable and does not attenuate due to length.
- ▶ All products are 100% tested before shipment to provide guaranteed quality.

more information please refer to:  
[electronic-links.com](http://electronic-links.com)



# Electronic Links

international inc



**...connecting...**