

# Harness and connector customization

Manufacturer of high reliability industrial waterproof connectors



## Standard Harness

### Power/Data/Signal Standard Harness P153

Cnlinko's Products series	LP, YM, BD, DH, YU, YT, YF SERIES
Optional material types	Plastic type, Metal type, Plastic + Metal type

## Harness and connector customization

CNLINKO selects international high-quality wires combined with CNLINKO brand connectors, and can customize the corresponding wire harness connectors according to the different needs of customers. We can also carry out engineering design and development to provide solutions according to the needs provided by customers. Flexible and convenient customized solutions make you more worry-free.

### The Application case of Wire Harness (Power) P159

Cnlinko's Products series	LP, YM, BD, DH, EV, DZ, YA, YZ, YW, YF and scheme development products
Module type	2/3/4 Pins
Optional cut hole size	M12, M16, M20, M24, M28 and development customization
Optional material types	Plastic type, Metal type, Plastic + Metal type
Note	You can choose according to your needs

### The Application case of Wire Harness (Data) P160

Cnlinko's Products series	LP, YM, BD, DH, DZ, YU, YT and scheme development products
Module type	USB/HDMI/Type-C
Optional cut hole size	M12, M16, M20, M24, M28 and development customization
Optional material types	Plastic type, Metal type, Plastic + Metal type
Note	You can choose according to your needs

### The Application case of Wire Harness (Power+Signal) P161

Cnlinko's Products series	LP, YM, BD, DH, EV, DZ, YA, YZ, YW and scheme development products
Module type	5/6/7/8/9/10/12/14/19/24 Pins, RJ45, Optical fiber, Hybrid(2+7/2+6/3+2/3+16/4+4 Pins)
Optional cut hole size	M12, M16, M20, M24, M28 and development customization
Optional material types	Plastic type, Metal type, Plastic + Metal type
Note	You can choose according to your needs

• Check the harness and connector customization area:

Scan the QR code below to check the harness and connector customization area of CNLINKO official website. If you have any doubts, you can contact the online customer service for more detailed product information.



CNLINKO official website QR code for harness and connector customization area

Standard Harness

Series	LP Series		LP Series	
<b>Name</b>	LP16 3-pin female plug welding plastic+metal+10A national standard 90 degree triangle plug+wire L=2M(CT-04) standard wiring harness	LP16 3-pin female plug welding plastic+metal+10A national standard 180 degree triangle plug+wire L=2M(CT-08) standard wiring harness	LP16 C 3.1 Male Plug Plastic + Cable + C 3.1 Male Plug Gen2 L=1M	LP16 C 3.1 4-pin Female Socket Plastic + Cable + C 3.1 Male Plug Gen2 L=1M
<b>Current Rating(A)</b>	10	10	5	5
<b>Voltage Rating(V)</b>	250	250	20	20
<b>Part No</b>	LP16-03-FP-E-2M-007	LP16-03-FP-E-2M-010	LP16-TYPEC-MP-MP-1M-002	LP16-TYPEC-MP-FS-1M-002
<b>Illustration</b>				
<b>Name</b>	LP20 3-pin female plug welding plastic+metal+10A national standard 90 degree triangle plug+wire L=2M(CT-04) standard wiring harness	LP20 3-pin female plug welding plastic+metal+16A national standard 90 degree triangle plug+wire L=2M(CT-05) standard wiring harness	LP20 3-pin male plug plastic + metal with spacer + wire L=1M (standard harness)	LP20 3-pin plastic + metal with spacer (double male plug + wire) L=1M (standard harness)
<b>Current Rating(A)</b>	10	16	20	20
<b>Voltage Rating(V)</b>	250	250	300	300
<b>Part No</b>	LP20-03-FP-E-2M-004	LP20-03-FP-E-2M-005	LP20-03-MP-E-1M-001	LP20-03-MP-MP-1M-001
<b>Illustration</b>				
<b>Name</b>	LP24-USB3.0 Male Plug + Cable + USB3.0 Male Plug L=0.5M (Standard Harness)	LP24 Fiber Optic Plug LC-LC 2-pin Singlemode with Metal Armor L=3M (Standard Harness)	LP24 HDMI2.1 single male plug + cable + HDMI2.1 male L=1M 4K@60Hz (standard harness)	LP24 HDMI male plug (double plug + cable) L=2M 3840*2160 60HZ (standard harness)
<b>Current Rating(A)</b>	3	-	-	0.5
<b>Voltage Rating(V)</b>	5	-	-	5
<b>Part No</b>	LP24-USB3-MP-MP-0D5M-001	LP24-F0-LC-LC-3M-001	LP24-HDMI-MP-MP-1M-002	LP24-HDMI-MP-MP-2M-002A
<b>Illustration</b>				

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Standard Harness

Series	YM Series		YM Series	
Name	YM20 3-pin double male plug welding plastic+wire L=1M(180 degree covered with spacer)	YM20 3-pin double female socket with soldered plastic+wire L=1M(180 degree plastic covered with spacer)	YM20 3-pin double male plug welding plastic+wire L=1M(90 degree covered with spacer)	YM20 3-pin double female socket welding plastic+wire L=1M(90 degree covered with spacer)
Current Rating(A)	20	20	20	20
Voltage Rating(V)	300	300	300	300
Part No	YM20-03-MP-MP-1M-001	YM20-03-FS-FS-1M-001	YM20-03-MP-MP-1M-002	YM20-03-FS-FS-1M-002
Illustration				
Series	YM Series		YM Series	BD Series
Name	YM24 HDMI2.1 single male plug + cable + HDMI2.1 male L=1M 4K@60Hz (standard harness)	YM24 USB3.0 Male Plug + Cable + USB3.0 Male Plug L=1M (Standard Harness)	YM24 fiber optic single plug LC/UPC-LC/UPC two core single mode fiber optic cable with metal armor L=3M (standard harness)	BD24 HDMI male plug metal + cable + HDMI2.0 male plug L=1M 3840*2160 60HZ (standard harness)
Current Rating(A)	0.5	3	-	0.5
Voltage Rating(V)	5	5	-	5
Part No	YM24-HDMI-MP-MP-1M-003	YM24-USB3-MP-MP-1M-001	YM24-F0-LC-LC-3M-001	BD24-HDMI-MP-MP-1M-003A
Illustration				
Series	BD Series		DH Series	
Name	BD24 USB3.0 Plastic Male Plug + USB3.0 Male Plug + Cable L=1M (Standard Harness)	BD24 Fiber Optic Single Plug Metal LC/UPC-LC/UPC 2-pin Singlemode Fiber Optic Cable with metal armor L=3M (Standard Harness)	DH20 3-pin male plug welding metal + wire L=1M (standard harness)	DH20 3-pin double male plug welding metal + wire L=1M(standard harness)
Current Rating(A)	3	-	20	20
Voltage Rating(V)	5	-	300	300
Part No	BD24-USB3-MP-MP-1M-001	BD24-F0-LC-LC-3M-002	DH20-03-MP-E-1M-001	DH20-03-MP-MP-1M-001
Illustration				

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## Standard Harness

Series	DH Series		DH Series	
Name	DH24 USB3.0 Male Plug + Cable + USB3.0 Male Plug L=1M (Standard Harness)	DH24 HDMI2.1 single male plug + cable + HDMI2.1 male L=1M 4K@60Hz (standard harness)	DH24 Fiber Optic Plug LC-LC 2-pin Singlemode with Metal Armor L=3M (Standard Harness)	DH24 HDMI male plug (double plug + cable) L=1M 3840*2160 60HZ (standard harness)
Current Rating(A)	3	-	-	0.5
Voltage Rating(V)	5	-	-	5
Part No	DH24-USB3-MP-MP-1M-001	DH24-HDMI-MP-MP-1M-003	DH24-F0-LC-LC-3M-001	DH24-HDMI-MP-MP-1M-002A
Illustration				
Series	YU Series		YT Series	
Name	USB3.0 Soldering Cable SR Plug Overmolded + Male Plug + Cable L=1M (Standard Harness)	USB3.0 Solder Cable SR Socket + Male Plug L=0.3M (Standard Harness)	RJ45 Third-generation Push Button Waterproof Dual Plug + Cable(CAT5E) L=1M(Standard Harness)	RJ45-02 Second-generation Metal Dual Plug + Cord (CAT5E) L=1M (Standard Harness)
Current Rating(A)	3	3	-	-
Voltage Rating(V)	5	5	-	-
Part No	YU-USB3-MP-MP-1M-001	YU-USB3-FS-MP-0D3M-001	YT-RJ45-MP-MP-1M-001	YT-RJ45-MP-MP-1M-002
Illustration				
Series	YF Series		YF Series	
Name	YF24 3-pin dual power plug (blue IP65 left) + cable L=1M (standard harness)	YF24 3-pin dual power plug (gray IP65 right) + cable L=1M (standard harness)	HDMI2.1 AOC (dual male plug + cable length) L=1M 8K*4K@60HZ (standard harness)	
Current Rating(A)	20	20	0.5	
Voltage Rating(V)	300	300	5	
Part No	YF24-03-MP-MP-1M-001	YF24-03-MP-MP-1M-002	QT-HDMI-MP-MP-1M-001	
Illustration				

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## The Application case of Wire Harness (Power)



LP20 2/3/4 Pins

**Application: Solar photovoltaic, new energy storage**

WVDC: 500V/AC, RC: 20A | Applicable wire diameter:Φ9.0~13.0mm

Waterproof level: IP67 | Flame retardant level:VW-1/UL94V-0

Connection method:Soldering/Screwing (optional)

Wires conform to 3C, CQC, UL, VDE certification

Product advantages:It adopts spring snap-type locking connection, which has the characteristics of cold resistance, high temperature resistance and waterproof function.



BD24 2/3/4 Pins

**Application: Security equipment, communication equipment, industrial robots**

WVDC: 500V/AC, RC: 25A | Applicable wire diameter: Φ10.0~14.0mm

Waterproof level: IP67 | Flame retardant level: VW-1/UL94V-0

Structure: metal/plastic (optional) | Connection method: Welding/Screwing (optional)

Wires conform to 3C, CQC, UL, VDE certification

Product advantages:It adopts lock-type connection, which has the characteristics of cold resistance, high temperature resistance, corrosion resistance and waterproof function.



YM24 2/3/4 Pins

**Application: Ships, intelligent storage, fire fighting equipment, medical equipment, Intelligent storage**

WVDC: 500V/AC, RC: 25A | Applicable wire diameter: Φ10.0~14.0mm

Waterproof level: IP68 | Flame retardant level: VW-1/UL94V-0

Connection method:Soldering

Wires conform to 3C, CQC, UL, VDE certification

Product advantages:It adopts snap-type nut rotation and locking connection, which has the characteristics of fire resistance, explosion resistance, deformation resistance, cold resistance, high temperature resistance, corrosion resistance and waterproof function.



YF24 2/3/4 Pins

**Application: LED display, stage lighting, audio equipment**

WVDC: 500V/AC, RC: 20A | Applicable wire diameter: Φ9.0~14.0mm

Waterproof level: IP44/IP65 | Flame retardant level: VW-1/UL94V-0

Connection method:Soldering/Screwing (optional)

Wires conform to 3C, CQC, UL, VDE certification

Product advantages:It adopts unique snap button and plug-type connection, which has the characteristics of explosion resistance, deformation resistance, cold or high temperature resistance, corrosion resistance, excellent insulation performance, and dustproof and waterproof functions.



DH20 2/3/4 Pins

**Application: Industrial and mining, Mechanical, electromechanical equipment**

WVDC: 500V/AC, RC: 20A | Applicable wire diameter: Φ9.0~13.0mm

Waterproof level: IP67 | Flame retardant grade: VW-1/UL94V-0

Connection method: Welding/Screwing (optional)

Wires conform to 3C, CQC, UL, VDE certification

Product advantages:Adopt military standard three-point screw locking connection, alloy shell material, effectively reduce external high current generation, electromagnetic and signal radio frequency interference, and with waterproof function, etc.

## The Application case of Wire Harness (Data)



LP,DH,YM,YU,BD  
(USB2.0/3.0,Type-C 3.1)

**Application: Communication, testing, industrial control and automation equipment, photographic equipment**

Waterproof level: IP67 | Flame retardant level: VW-1/UL94V-0

Temperature resistance level: -40~105°C | Contact resistance: 30mΩ/Max

Withstand voltage: 100V/AC | Complies with USB Association EMI requirements

Wires comply with UL2725, UL20276 certification

The transfer rate meets the USB2.0/USB3.0/Type-C Gen1/Gen2 standard.



LP,DH,YM,YT,BD  
(RJ45)

**Application: LED display, robotics, communication and electronic equipment**

Waterproof level: IP67 | Flame retardant level: VW-1/UL94V-0

Temperature resistance level: -40~105°C

Compliant with T568A and T568B line sequence

Wires comply with UL2835 certification

The wire specification meets the transmission standard of Super Category 5, which is Cat5/Cat-5e/Cat6, multi-strand copper wire is twisted, and the signal transmission is more stable.



LP,DH,YM,BD  
(LC Optical fiber)

**Application: Communication and switch equipment, computer room**

Waterproof level: IP67 | Flame retardant level: VW-1/UL94V-0

Temperature resistance level: -40~105°C

The wire has metal armor, the material is SUS304, which is anti-pulling and bending, preventing it from being bitten by animals.

Mainly used in outdoor connection applications, the rugged PU jacket and single mode APC armored construction cable provides 1 Gigabit/s data transmission in high bandwidth applications.



LP,DH,YM,BD  
(HDMI)

**Application: Videophone, multimedia, audiovisual and monitoring equipment**

Waterproof level: IP67 | Flame retardant level: VW-1/UL94V-0

Temperature resistance level: -40~105°C

Support HDMI2.0 (4K\*2K 60Hz), HDMI2.1 | (8K\*4K 120Hz) HD video transmission

Wires meet UL certification

The HDMI 2.1 wire has metal armor, the material is SUS304, which is anti-pulling and bending, preventing it from being bitten by animals and its length up to 300M.



LP,DH,YM,BD  
(Multi-Pin 5~24 Pins)

**Application: GPS positioning system, remote monitoring, ECT,and communication equipment**



Waterproof level: IP67

Flame retardant level: VW-1/UL94V-0

Temperature resistance level: -40~105°C

Wires comply with UL, 3C certification

## The Application case of Wire Harness (Power+Signal)

 <p>LC20</p>	<p><b>Application: LED DISPLAY</b></p> <p>Power interface:Rated current 20A,Operating voltage 500V/AC,Contact resistance&lt;1mΩ</p> <p>Signal interface:Rated current 5A,Operating voltage 400V/AC,Contact resistance&lt;5mΩ</p> <p>Waterproof level: IP44   Plug and unplug durability: 1700Cycles</p> <p>Flame retardant level: VW-1/UL94V-0   Temperature resistance level: -40~105°C</p> <p>Wires comply with UL, 3C certification</p>
 <p>LP28(7+2)</p>	<p><b>Application: New energy</b></p> <p>Rated current 1.2A, working voltage 42V/AC, contact resistance &lt; 40mΩ</p> <p>Waterproof level: IP67   Plug durability:500Cycles</p> <p>Flame retardant level: VW-1/UL94V-0   Temperature resistance level: -40~85°C</p> <p>Wirecomply with UL certification</p>
 <p>DH24(4+4)</p>	<p><b>Application: Mechanical equipment</b></p> <p>Rated current 20A+5A, working voltage 400V/AC, contact resistance &lt; 5mΩ</p> <p>Waterproof level: IP67   Plug durability:1700Cycles</p> <p>Flame retardant level: VW-1/UL94V-0   Temperature resistance level: -40~85°C</p> <p>Wirecomply with UL certification</p>
 <p>LP20(2+6)</p>	<p><b>Application: Medical equipment, photographic equipment, garden machinery</b></p> <p>Rated current 25A (power) + 2A (signal),</p> <p>Working voltage 300V/AC, contact resistance &lt; 10mΩ</p> <p>Waterproof level: IP67   Temperature rise&lt;30°C</p> <p>Plug and unplug durability: 1700Cycles   Flame retardant level: VW-1/UL94V-0</p> <p>Temperature resistance level: -40~80°C   Wirecomply with UL certification</p>

For more customization requirements of application scenarios, please log in to CNLINKO's official website [www.cnlinko.com](http://www.cnlinko.com) to contact online customer service, CNLINKO can provide you with one-step professional services according to your needs Customized service.

## PROFESSIONAL CUSTOMIZED SERVICE OF WIRE HARNESS WITH WATERPROOF CONNECTOR

Cnlinko is aware of the market trend and is looking forward to the professional customized business of waterproof industrial connector wire harness. Relying on cnlinko's professional product development team and flexible, large-scale and intelligent production line production capacity, which can respond to the customized order needs of a large number of users in real time, providing users with efficient, satisfactory and professional wire harness customization services, and help more industries and more application scenarios to achieve highly compatible professional connections.



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