

# LP-20

WATERPROOF CONNECTOR

## INTRODUCTION

LP-20 Series connector is widely used in variety of challenging environments due to its high precision, high quality automatic insertion, self-locking devices and waterproof, In LED screen ,audio visual equipment, medical equipment, industrial control, testing and measurement equipment, AV system and others.



Male plug



female connector



Female socket

- 1: With multi-core design to fit with different industrial needs.
- 2: Alloy metal socket is with fully electromagnetic and radio frequency interference protection
- 3: With Gold-plated contact , Stronger corrosion resistance and conductivity,
- 4: PBT materials shell, stable electrical performance, pressure-resisting, high temperature resistance, anti-explosion, anti-corrosive
- 5: 2/3/4/5/7pin for power, 9/12pin for signal, power and signal can be compatible match
- 6: IP65/IP67 when mated.
- 7: Current rating: 5A/12A/20A rms
- 8: Please indicate if you need the protection level more high.



Female socket



Protective cover



Unique CNLINKO design



Gold-plating copper



Groove female design



Unique design reinforce lock



ORDER INFORMATION  
PRODUCT NUMBER  
**LP-20** WATERPROOF CONNECTOR



LP-20 MALE PLUG AND FEMALE SOCKET



LP-20 FEMALE PLUG AND MALE SOCKET



PICTURE AND PART NO.

Male plug&  
Female socket



LP-20-C02PE-01-001 male plug



LP-20-C03PE-01-001 male plug



LP-20-C04PE-01-001 male plug



LP-20-J02PP-01-001 Female connector



LP-20-J03PP-01-001 Female connector



LP-20-J04PP-01-001 Female connector



LP-20-J02SX-01-001 female socket ( flange )



LP-20-J03SX-01-004 female socket ( flange )



LP-20-J04SX-01-001 female socket ( flange )

Female plug&  
Male socket



LP-20-J02PE-01-001 female plug



LP-20-J03PE-01-001 female plug



LP-20-J04PE-01-001 female plug



LP-20-C02PP-01-001 Male connector



LP-20-C03PP-01-001 Male connector



LP-20-C04PP-01-001 Male connector



LP-20-C02SX-01-001 male socket ( flange )



LP-20-C03SX-01-004 male socket ( flange )



LP-20-C04SX-01-001 male socket ( flange )



|                                      |   |        |        |
|--------------------------------------|---|--------|--------|
| Cable specification                  | 2.5m m <sup>2</sup> ~ 4m m <sup>2</sup> / 14 ~ 12 AWG             |        |        |
| Diameter range                       | Φ8mm ~ Φ12mm  |        |        |
| Contact diameter × number            | Φ2.7×2  | Φ2.7×3 | Φ2.7×4 |
| Rated Current (A)                    | 20A   |        |        |
| Operating voltage (AC.V.rms)         | 500V  |        |        |
| Contact resistance                   | <1mΩ  |        |        |
| Temperature rise                     | 20A contact temperature below 30°C 25A.....40°C↓ , 30A.....50°C↓. |        |        |
| Withstanding Voltage (AC.V) 1 minute | 2500V   |        |        |
| Insulation resistance                | > 500MΩ   |        |        |
| Protection level                     | IP65/IP67   |        |        |
| Durability                           | ≥500times   |        |        |
| Working temperature                  | -40°C ~ 80°C  |        |        |
| Connecting mode                      | Easy locking type   |        |        |
| Assembly wire                        | Soldering/Crimping  |        |        |

MATERIALS

|                          |                                       |
|--------------------------|---------------------------------------|
| Housing&insulation parts | high-performance engineering plastics |
| Hardware                 | zinc alloy (pearl hard chrome)        |
| cooper pins              | copper alloy (gold-plated 4U)         |
| waterproof cover         | Silica gel                            |
| Flammability rating      | UL94-V0                               |

| 5Pin  | 7Pin  | 9Pin   | 12Pin   |
|---|---|--|---|
| <br>LP-20-C05PE-01-001<br>male plug                | <br>LP-20-C07PE-01-001<br>male plug                | <br>LP-20-C09PE-01-001<br>male plug                | <br>LP-20-C12PE-01-001<br>male plug                |
| <br>LP-20-J05PP-01-001<br>Female connector         | <br>LP-20-J07PP-01-001<br>Female connector         | <br>LP-20-J09PP-01-001<br>Female connector         | <br>LP-20-J12PP-01-001<br>Female connector         |
| <br>LP-20-J05SX-01-001<br>female socket ( flange ) | <br>LP-20-J07SX-01-001<br>female socket ( flange ) | <br>LP-20-J09SX-01-004<br>female socket ( flange ) | <br>LP-20-J12SX-01-001<br>female socket ( flange ) |
| <br>LP-20-J05PE-01-001<br>female plug              | <br>LP-20-J07PE-01-001<br>female plug              | <br>LP-20-J09PE-01-001<br>female plug              | <br>LP-20-J12PE-01-001<br>female plug              |
| <br>LP-20-C05PP-01-001<br>Male connector           | <br>LP-20-C07PP-01-001<br>Male connector           | <br>LP-20-C09PP-01-001<br>Male connector           | <br>LP-20-C12PP-01-001<br>Male connector           |
| <br>LP-20-C05SX-01-001<br>male socket ( flange ) | <br>LP-20-C07SX-01-001<br>male socket ( flange ) | <br>LP-20-C09SX-01-004<br>male socket ( flange ) | <br>LP-20-C12SX-01-001<br>male socket ( flange ) |
|    |    |    |    |
| 1.0m <sup>2</sup> ~ 1.5m <sup>2</sup> / 18 ~ 16 AWG<br>Φ7mm ~ Φ9mm  |   | 0.15m <sup>2</sup> ~ 0.2m <sup>2</sup> / 26-24 AWG<br>Φ5.5mm ~ Φ7mm  |   |
| Φ1.8×5  |   | Φ1.0×9   |   |
| Φ1.8×7  |   | Φ1.0×12  |   |
| 12A   |   | 5A   |   |
| 500V  |   | 400V   |   |
| <2.5mΩ  |   | <5mΩ   |   |
| 12A.....30°C I , 15A.....40°C I , 20A.....50°C I.   |   | /  |   |
| 2500V   |   | 1500V  |   |
| > 500MΩ   |   |  |   |
| IP65/IP67   |   |  |   |
| ≥500times   |   |  |   |
| -40°C ~ 80°C  |   |  |   |
| Easy locking type   |   |  |   |
| Soldering/Crimping  |   |  |   |
| high-performance engineering plastics   |   |  |   |
| zinc alloy (pearl hard chrome)  |   |  |   |
| copper alloy (gold-plated 4U)   |   |  |   |
| Silica gel  |   |  |   |
| UL94-V0   |   |  |   |

## CONNECTION SCHEMES



## DIMENSION FIGURE

