

YM-20 INTRODUCTION

WATERPROOF CONNECTOR

YM-20 series connectors, using high-end injection molding PBT material, ensuring stable performance, multi-core design of the product, while meeting the needs of a number of power and signal equipment, the central shell distinctive logo, highlighting the latest design cnlinko.



Male plug



Female socket

- 1: Multi-core design styles (2-12 cores), in line with the diversity of industrial demand, signal and power compatible match
- 2: PBT material of the protective housing, with characters of fire safety, compression, anti-explosion and anti-deformation
- 3: Gold-plated contacts, high-strength corrosion resistance and electrical conductivity, effective response to temperature changes in current
- 4: 1/4 Quick bayonet coupling, simple operation, easy installation
- 5: Dustproof cover design under off-working condition
- 6: 5A/12A/20A rms current rating
- 7: Protection level:IP65/IP67






Symbol of locked plug



Gold plated copper pins

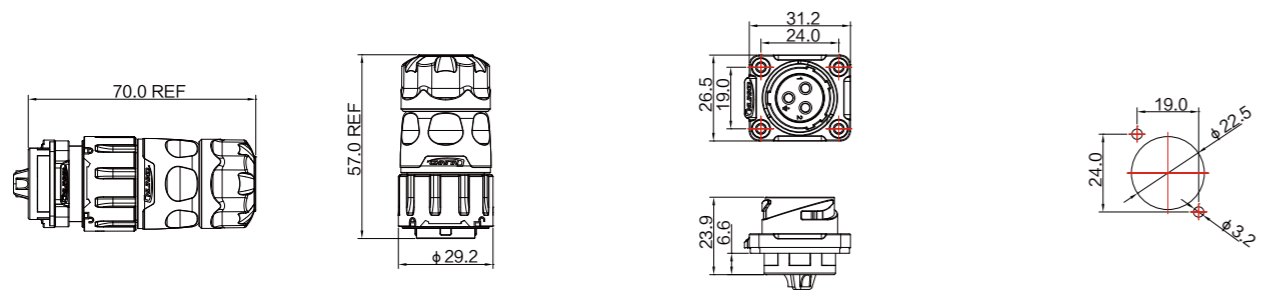
YM-20 SERIES SPECIFICATIONS SHEET

PINS		2PINS	3PINS	4PINS	5PINS	7PINS	9PINS	12PINS
PICTURE AND PART NO.	Male plug & Female socket	 YM-20-C02PE-01-001 male plug	 YM-20-C03PE-01-001 male plug	 YM-20-C04PE-01-001 male plug	 YM-20-C05PE-01-001 male plug	 YM-20-C07PE-01-001 male plug	 YM-20-C09PE-01-001 male plug	 YM-20-C12PE-01-001 male plug
		 YM-20-J02SX-01-001 female socket	 YM-20-J03SX-01-001 female socket	 YM-20-J04SX-01-001 female socket	 YM-20-J05SX-01-001 female socket	 YM-20-J07SX-01-001 female socket	 YM-20-J09SX-01-001 female socket	 YM-20-J12SX-01-001 female socket
	Female plug & Male socket	 YM-20-J02PE-01-001 female plug	 YM-20-J03PE-01-001 female plug	 YM-20-J04PE-01-001 female plug	 YM-20-J05PE-01-001 female plug	 YM-20-J07PE-01-001 female plug	 YM-20-J09PE-01-001 female plug	 YM-20-J12PE-01-001 female plug
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Cable specification	2.5m ² ~ 4m ² /14-12AWG			1.0m ² ~ 1.5m ² /18 ~ 16 AWG		0.15m ² ~ 0.2m ² /26-24 AWG		
Diameter range	Φ8mm ~ Φ12mm			Φ7mm ~ Φ9mm		Φ5.5mm ~ Φ7mm		
Contact diameter × number	Φ2.7×2	Φ2.7×3	Φ2.7×4	Φ1.8×5	Φ1.8×7	Φ1.0×9	Φ1.0×12	
Rated Current (A)	20A			12A		5A		
Operating voltage (AC.V.rms)	500V			500V		400V		
Contact resistance	<1mΩ			<2.5mΩ		<5mΩ		
Temperature rise	(20A contact temperature below 30°C), 25A.....40°C↓, 30A.....50°C↓.			12A.....30°C↓, 15A.....40°C↓, 20A.....50°C↓.		/		
Withstanding Voltage (AC.V) 1 minute	2500V			2500V		1500V		
Insulation resistance	> 500MΩ			> 500MΩ		> 500MΩ		
Protection level	IP65/IP67			IP65/IP67		IP65/IP67		
Durability	≥500 times			≥500 times		≥500 times		
Working temperature	-40°C ~ 80°C			-40°C ~ 80°C		-40°C ~ 80°C		
Connecting mode	1/4 bayonet connect			1/4 bayonet connect		1/4 bayonet connect		
Assembly wire	Soldering/Crimping			Soldering/Crimping		Soldering/Crimping		
MATERIALS								
Housing&insulation parts	High-performance engineering plastics			High-performance engineering plastics		High-performance engineering plastics		
Hardware	Zinc alloy (pearl hard chrome)			Zinc alloy (pearl hard chrome)		Zinc alloy (pearl hard chrome)		
Cooper pins	Copper alloy (gold-plated 4U)			Copper alloy (gold-plated 4U)		Copper alloy (gold-plated 4U)		
Waterproof cover	Silica gel			Silica gel		Silica gel		
Flammability rating	UL94-V0			UL94-V0		UL94-V0		

CONNECTION SCHEMES



DIMENSION FIGURE



Dimensions figure

PE clamping cable plug
(dimensions figure)

SX socket (dimensions figure)

Installation hole figure