

註 欣 股 份 有 限 公 司 CHANT SINCERE CO., LTD.

# M8/M12 www.coxoc.com.tw



註 欣 股 份 有 限 公 司 CHANT SINCERE CO., LTD.

## **Contents**

About Chant Sincere	P.1
Quality System	P.3
Competencies & Technology	P.5
M12 Series	P.7
M12 Connector	
M12 Cable	
M8 Series	P.21
M8 A-Code 8Pin Male Cable Assembly	



# **About Chant Sincere**



Chant Sincere Co., Ltd. was set up in 1985., With the management concept of "Honest, Innovative, Quaity, Longterm" to design and manufacture connector and cable. Keep developing new innovative products and integrating vertically from R&D, tooling, assembly and quality control to meet the demands (quality/cost/delivery) from customers. Chant Sincere Co., Ltd. has been constructing various of product families to provide a total solution to customers.

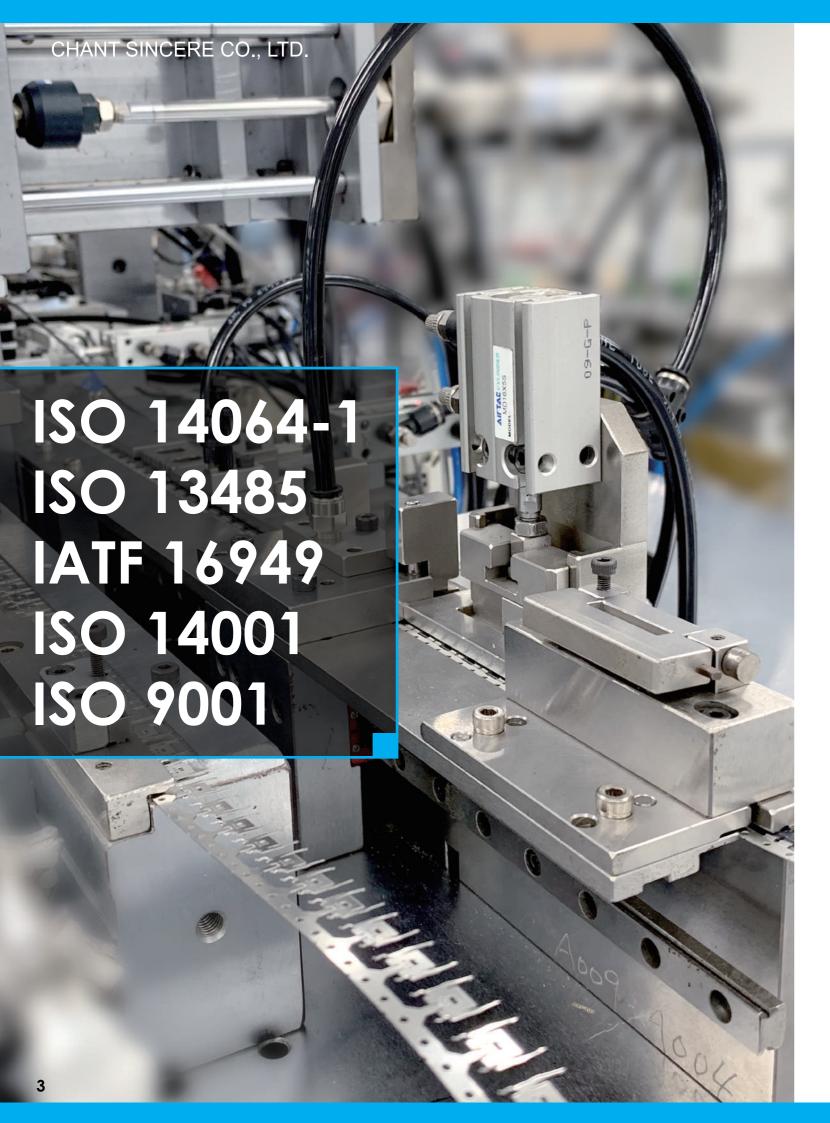
The connector and cable products are widely used in many different application, such as Computing, Industrial & Automation, Telecommunication, Automotive, Waterproof, Consumer and Medical Industry.

Chant Sincere won the "National Bedrock Award" & "Small Giant Award" from Taiwan Connector maker competition and got many "Best Supplier Awards" from Global customers. We are focusing on improving our design and manufacture technology, and we have been applying for a lot of international patents for our products including I/O connector, Board to Board Connector, Waterproof Connector, Industrial Connector, Automotive Connector, Memory Card Connector and Adaptor, High Speed connector/cable (USB3.1), Audio & Vidio connector and cable (HDMI,Display Port)...etc.

Chant Sincere Co., Ltd. has been growing up as a global professional manufacturer for connector and cable.

### The Core Competence of Chant Sincere Co., Ltd. including.

- Over 38 Years Manufacture Experience
- ODM/OEM Capability
- Vertical Integration (Design, Tooling, Manufacturing, Test)
- Automation Capability
- Precise Tooling Center
- Wide Range of Product Line
- Systematic Testing Process
- Customized Capability
- Quality System (ISO,IATF)
- National Awards Rising Sun Awards/Best Supplier Awards









# **Quality Systems**

COXOC Quality Assurance department meets our customers' quality requirements by practicing continual improvement in our quality assurance processes and increasing customers' satisfaction in the quality of our products.

The effectiveness of COXOC QA operation is certified by well-known organizations such as ISO9001 Quality Assurance Management System, ISO 14001 Environmental Management System, ISO/IATF 16949 for Automobile Industry Quality Management System, and ISO13485 Medical Devices Quality Management System, COXOC integrated supply chain and devoted staff has enabled us to build a solid foundation and core capability to better serve our customers. It is COXOC principal to always meet and exceed customer expectation by providing superior products and services. COXOC ultimate goal is to create value for our customers by building collaborative and mutually beneficial relationships.

CHANT SINCERE CO., LTD. CHANT SINCERE CO., LTD.

### **Competencies & Technology**

The R&D Center at Chant Sincere leads the industry in research, design, and manufacturing of numerous key parts. This center has successfully developed for both wired and wireless solutions for computer peripherals, communication systems, and automobiles/industrial/medical equipment. Our solid R&D team formed a strong foundation in advance manufacturing technology and superior quality control that also enabled high value adding service for customers.

USB type C connectors is an example of the fruits of our research. This miniature and unidirectional interface provides many useful functions such as lighting data transfer rate up to 10 Gbits/s, DP ALT Mode high-definition video signal support, and brilliant 100W charging capability. Chant Sincere advanced the research further into higher specs such as USB 3.2 and USB 4.0 and offers customized solution for various of industrial applications. We delivered comprehensive solutions in bridging the diverse need for new interface and solve on-going product design issues for customers.

QSFP-DD is an ultra-fast interface that transmit data at 400Gbps speed. At this speed, stringent requirement for signal integrity and operating temperature is inviable which imposed huge challenges for the industry. At Chant Sincere, we implemented comprehensive computational software, state of art measuring equipment and eminent R&D capability to aid the solution delivering process. The analysis process includes simulation under CST MSW (Time Domain Simulation), ANSYS HFSS (Frequency Domain Simulation) for signal integrity as well as real-time measurement using test boards and PNA (up to 43.5GHz) to deliver quality reports for signal integrity (S-parameter, Gain compression, conversion gain/loss, noise level). We further performed simulation of its operating temperature using Icepak (Heat transfer and fluid flow simulator). This enabled the performance optimization for heat dissipation solution. With the above R&D skills we successfully delivered the desired professional service within the shortest time frame for our customers.





### M12 Application

• M8/M12 Connector System fills the needs for sensor connection in industrial machinery and factory automation. The M8/M12 standard is also ideal for applications environmental protection is required. The M8/M12 Connector system provides a future-proof interface that supports higher-bandwidth needs, meeting the requirements of up to 10GB/s.

### **Application**

- Industrial machinery
- Factory automation
- I/O boxes
- Sensors
- Switches

### **Product Characteristics**

- Compact and reliable environmentally protected connection
- Signal and terminated cable assemblies of over-molded construction
- Supports higher-bandwidth needs up to 10GB/s

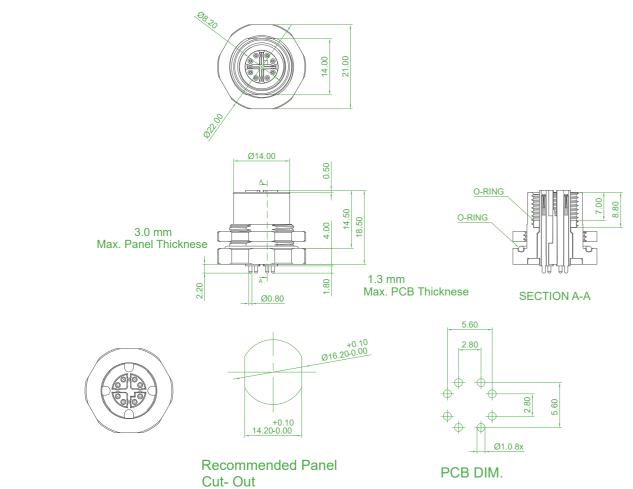
M12

### M12 X-Code Female Panel





### Drawing



### Specification

	Description	M12 X-Code Panel Female Connector
	Part no.	649EE08FDDD2NEA3
	Insulator	Thermosetting Polymer
Material	Contact	Copper Alloy
	Metal Part	Copper Alloy
Contact Plating	Under Plate	50u" ~ 200u" Nickel
Contact Flating	Contact Area	30u" Selective Gold
	Operation Voltage	48 VAC(RMS)
	Current Rating	0.5 Amps Max.
Floatrical	Contact Resistance	5 M Ohms Max.
Electrical	Insulation Resistance	100 M Ohm Min @500 VDC
	Dielectric Withstanding Voltage	500 VAC/ Minutes
	Temperature Range	-40°C to +70°C

### ■ M12 Connector -

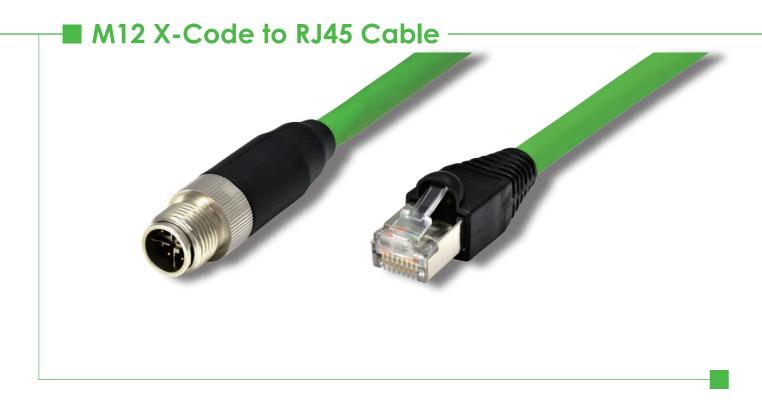
Application Type	Contact Type	Gender	Pin Count	A-Code	D-Code	Part no.				
Cable End		Male	4	V	V					
		Male	5	V	V	649AFXXMSTD1NXA3				
	Solder		4	V	V					
		Female	5	V	V	649AFXXFSTD1NXA3				
			8	V		649AE08FSSD1NAA3				
Cable End		Male	4	V	V	649IEXXMSND1NXA3				
	IDC	iviale	5	V	V	049IEAAWISIND IIVAAS				
	IDC	Female	4	V	V	649IEXXFSND1NXA3				
		remale	5	V	V	049IEAAFSINDTINAAS				
Through Panel	Solder		4	V	V	649AEXXMSSD2NXA3				
		Solder	Solder	Solder	Solder	Male	5	V	V	048ALXAWOODZWAAO
									8	V
Front Mount / Through Panel		Div		4	V					
			Din	Din	Male	5	V		649EEXXMSSD2NAA3	
	Dip	Female	4	V		0405577500001444				
		remale	5	V		649EEXXFSSD2NAA3				
			2	V		649AE02FSSD2NAA3				
Panel Mount Female			3	V		649AE03FSSD2NAA3				
			4	V	V	649AE04FSSD2NXA3				
			5	V		649AE05FSSD2NAA3				
			6	V		649AE06FSSD2NAA3				
	Solder	Female		V		649AE07FSSD2NAA3				
			8	V		649AE08FSSD2NAA3				
			9	V		649AE09FSSD2NAA3				
30			10	V		649AE10FSSD2NAA3				
			11	V		649AE11FSSD2NAA3				
			12	V		649AE12FSSD2NAA3				

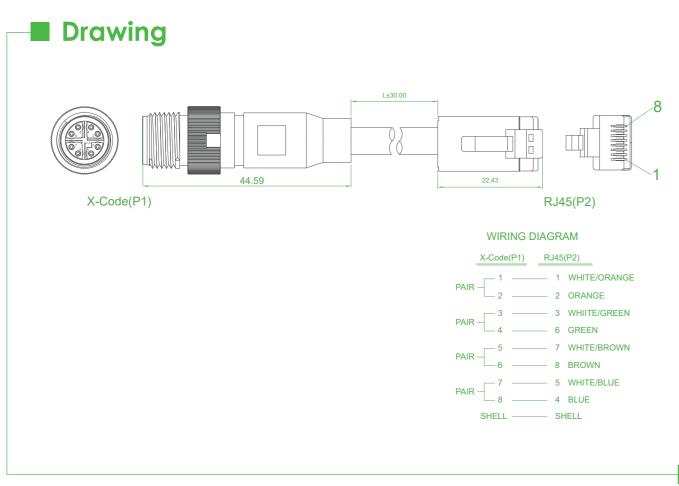
Application Type	Contact Type	Gender	Pin Count	X-Code	Part no.	
Panel Mount (PG9)	Mount (PG9)		2	V	649AE02FBBD4NEA3	
			3	V	649AE03FBBD4NEA3	
	Solder	Female	4	V	649AE04FBBD4NEA3	
			5	V	649AE05FBBD4NEA3	
			8	V	649AE08FBBD4NAA3	
Through Panel (PG9)	Dip	Female	8	V	649EE08FSSD4NAA3	
Cable End	Solder	Male	8	V	649AE08MDDD1NED3	
Cable End	Crimp	Female	8	V	649KE08FBBD1NFD3	
Cable End / Cable End(Molded)	Crimp	Male	Male 8	V	649KE08MDDD1NFA3	
	Omip	ividie			649ME08MDDD1NED3	
Cable End	IDC			8	V	649IE08MBTD1NXD3
	IDC (no cover)	iviale	0	v	049IEUOINID I D IINAD3	
Through Panel	Dip	Female	8	V	649EE08FDDD2NEA3	

### **■ M12 Connector**

Application Type	Contact Type	Gender	Pin Count	A-Code	D-Code	Part no.	
Panel Mount (PG9)			4	V	V		
	Solder	Male	5	V	V	649AEXXMSSD4NXA3	
			8	V		649AE08MSSD4NAA3	
Panel Mount (M16)			4	V	V	649AEXXMSSD3NXA3	
	Solder	Solder Male	Male	5	V	V	049ALAANIOODSNAAS
				8	V		649AE08MSSD3NAA3
Cable End			4	V	V		
Odbio Elia	Solder	Solder	Male	5	V		649AEXXMSSD5NXA3
				8	V		
				4	V	V	
		Female	5	V		649AEXXFSSD5NXA3	
			8	V			
Cable End							
	IDC	Male	4		V	649IFX4MXTD1XKD3	







### Specification

	Description	M12 X-Code to RJ45 Cable
	Part no.	CW0608EADB01EXMX
	Connector	M12 X-Code Male Connector Contact Gold Plate 30u" Over 50~220u" Nickel
Part Description	Connector	RJ45 Cat 6A Male Connector Contact Gold Plate 50u"
	Cable	10G Cat 6A 26 AWG 4 Pairs
	Shielded	FTP Aluminium / Polyester 4 Pairs
	Jacket	Material PVC
	Rated Current	0.5 Amps
Electrical	Rated Voltage	50 VAC
Electrical	Insulation Resistance	> 100 MΩ
	Degree of Protection	IP67
	Operation temp.	-25°C to +85°C

### ■ M12 Cable -

Application Type	Description	Part no.
Free End	Female, 4 \ 5 \ 8Pin, A \ D-Code, 90°	CW01AXXAXA01E1M0
Free End	Female, 4 \ 5 \ 8Pin, A \ D-Code, 180°	CW02AXXAXA01E1M0
Cable Open End	Female, 4 \ 8Pin, A \ D-Code, 180°	CW02AXXAXB02E1M0
Rear Mount Free End	Female, 4 \ 5Pin, A-Code	CW02AXAAAB0XE1M0
Free End	Male, 4 > 5Pin, A > D-Code, 90°	CW03AXXAAA01E1M0

Application Type	Description	Part no.
Free End	Male, 4 \ 5 \ 8Pin, A \ D-Code, 180°	CW04AXXAXX0XE1M0
Front / Rear Mount Free End	Male, 4 \ 5Pin, A-Code	CW04AXAAAB0XE1M0
	Male, 4Pin, A-Code to A-Code, 180°	CW0504AAXB03E1M0
	Male, 4Pin, D-Code to D-Code, 180°	CW0504DAXB03E1M0
	Male, 5 \ 8Pin, A-Code to A-Code, 180°	CW050XAAXB0XE1M0

### ■ M12 Cable -

Application Type	Description	Part no.
	Male, 8Pin, X-Code to X-Code, 180°	CW0508EADB0XE1M0
	Male, 8Pin to RJ45, X-Code, 180°	CW0608EADB0XE1M0
	Male, 4 \ 8Pin to RJ45, A-Code, 180°	CW06X8AADB03E1M0
	Male, 4Pin to RJ45, D-Code, 180°	CW0648DADB03E1M0
	Female, 12Pin to USB3.0 AM, A-Code	CW089CAACA02E1M0

Application Type	Description	Part no.
	Female, 8Pin to RJ45, X-Code	CW0908EADAX1E1M0
	Female, 4 \ 8Pin to RJ45, A-Code	CW09X8AADB03E1M0
	Female, 4Pin to RJ45, D-Code	CW0948DADB03E1M0
	M12 X-Code, Male, 8Pin to M8 A-Code, Female 4Pin	CW0J84GADA01E15M



### M8 Application

M8/M12 Connector System fills the needs for sensor connection in industrial machinery and factory automation. The M8/M12 standard is also ideal for applications environmental protection is required. The M8/M12 Connector system provides a future-proof interface that supports higher-bandwidth needs, meeting the requirements of up to 10GB/s.

### **Application**

- Industrial machinery
- Factory automation
- I/O boxes
- Sensors
- Switches

### **Product Characteristics**

- Compact and reliable environmentally protected connection
- Signal and terminated cable assemblies of over-molded construction
- Supports higher-bandwidth needs up to 10GB/s

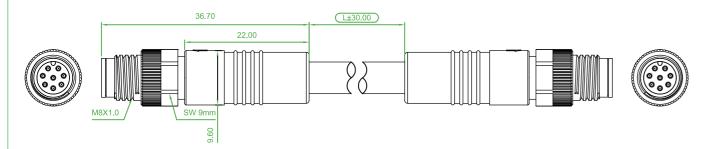


CHANT SINCERE CO., LTD. CHANT SINCERE CO., LTD.

### ■ M8 A-Code 8Pin Male Cable Assembly — Specification -



### Drawing



### WIRING DIAGRAM

A-Code(P1)		Α-	Coc	le(P2)
1 -		_	1	WHITE
2 -		_	2	BLUE
3 -		_	3	BROWN
4 -		_	4	ORANGE
5 -		_	5	BLACK
6 -		_	6	RED
7 -		_	7	YELLOW
8 -		_	8	GREEN
SHELL -		_	SH	IELL

	Description	M8 A-Code 8Pin Male Cable Assembly
	Part no.	CW1508AABB01E1M0
	Insulator	PA66 (6410G5) UL94V-0
Material	Contact	Brass
	Shell	Brass
Contact Disting	Under Plate	50u" Min Nickel
Contact Plating	Contact Area	1u" Gold
	Operation Voltage	30 VAC/DC
Floatrical	Current Rating	1.5 A
Electrical	Temperature Range	-20°C to +80°C
	Operating Degree	IP67

### M8 Cable -

Application Type	Description	Part no.
	Male, 8Pin, A-Code to A-Code	CW1508AABB01E1M0
	Female, 8Pin, A-Code to A-Code	CW1608AABB01E1M0



2022 07 rev 3



7F-2, No.188, Sec. 3, Datong Rd., Xizhi Dist., New Taipei City221, Taiwan(R.O.C.)

TEL: 886-2-8647-1251 / FAX: 886-2-8647-1842

Mail: service@coxoc.com.tw