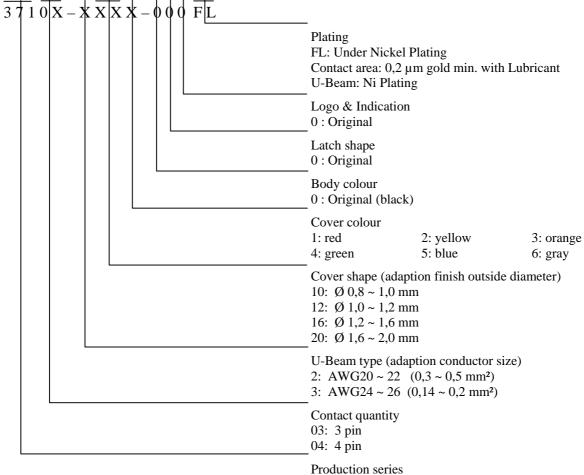
Product Information



Mini Clamp Wiremount Plug Connector

Numbering System



371: Mini Clamp Wiremount Plug Connector

The instrument identification combination which it can supply

AWG20~22 (0.3~0.5mm ²)	AWG24~26 (0.14~0.2mm ²)
3710X-2206-000 FL (gray cover: Ø 1.6~2.0)	3710X-3163-000 FL (orange cover: Ø 1.2~1.6)
3710X-2165-000 FL (blue cover: Ø 1.2~1.6)	3710X-3122-000 FL (yellow cover: Ø 1.0~1.2)
3710X-2124-000 FL (green cover: Ø 1.0~1.2)	3710X-3101-000 FL (red cover: Ø 0.8~1.0)

RATING

Item	Rating		
Current	3,0 A max		
Voltage	32V (AC/DC) max	32V (AC/DC) max	
Temperature	- 20°C bis + 85°C (Current 1A)		
_	-20° C bis $+75^{\circ}$ C (Current 2A)		
	-20° C bis $+60^{\circ}$ C (Current 3A)		
	without dew drop / a drop of water		
Flame resisting grade	UL 94 V - 0		



COMPATIBLE OBJECT

1. Compatible connectors

3M Brand : 372XX-62X3-00X XX :Mini-Clamp board mount socket connector. 3M Brand : 3730X-XXXX-0X0 XX :Mini-Clamp wire mount socket connector.

2. Compatible cable

Conductor cross sectional area AWG20 26 0.14 0.5mm2 Conductor material Tin plating annealed copper wire, High strength copper alloy wire, Copper alloy wire Conductor structure Stranded wire, Tin overcoat wire, Solid wire Conductor construction AWG20(0.5sq) 19/0.20 20/0.18 21/0.18 AWG22(0.3sq) 1/0.643 7/0.254 12/0.18 17/0.16 3/20/0.08 60/0.08 AWG24(0.2sq) 7/0.20 11/0.16 40/0.08 AWG25(0.18sq) 7/0.18 36/0.08 37/0.08 7/13/0.05 AWG26(0.14sq) 7/0.16 30/0.08 7/11/0.05

Isolation material Heat-resistant vinyl, Half rigid vinyl, Cure PE, ETFE, Isolation outside diameter 0.8 2.0

Above adaptation electric wire is an extract from evaluation electric wire and doesnot evaluate all combinations. Detailed information please ask the sales person incharge.

This connector recommend electric wire witch is stranded wire of pitch equal to orless than 20 times of conductor outside diameter prescribed with section A4-2-4-3in "Insulated conductors for power-operated electronic devices" by CSA standardC22.2No.16-1980 There is the thing which even pitch more than this conforms to.Detailed information please ask the sales person in charge.

On flat cable, IDC is possible by tearing it up if it is welding cable. In addition, with flat cable of pushing out molding, IDC is possible by dividing quality of insulation with cutters equally. Not being shown electric wire.

If it is electric wire of seven twisting on AWG 28, it is almost meets. Detailed information please ask the sales person in charge.

Please ask the sales person in charge on junction of shielding wire.

3. Recommendation tool

IDC by prier

To use base plate (10986, 3771) together in 3M hand press machine (10985, 3640, 3335), and platen (3442-1A), Can make IDC which height adjusts for 3 with height gauge (3436-1A).

4. An instruction manual

ER-077 Mini-Clamp connector IDC sequence of operation book

5. Caution of operation

Please use it for do not add force to IDC part (don't pull electric wire). Demolition at having pulled electric wire changes by thickness of electric wire. Please install it so that connected load more than 10 N is not added per wire. Please don't IDC without jig (for example, dukes / finger).

Note A breaking strength ability value at having pulled it to the direction that electric wire passed through. Above numeric value is changed by combination of connector and electric wire. It mentions typical numeric value example here.

Example 1) At the time of combination with UL1723, AWG22 (1/0.643), finish contour f 1.36, FEP isolation outer bark electric wire made in Showa Electric Wire & Cable Co.,Ltd. and 37104-2165-000 FL made in 3M

An average of 84.7 N (the fewest 78.5N)



Example 2) At the time of combination with UL1007, AWG24 (11/0.16), finish contour f 1.49, Heat-resistant vinyl isolation outer bark electric wire made in Showa Electric Wire & Cable Co.,Ltd. and 37104-3163-000 FL made in 3M

An average of 46.6 N (the fewest 35.9N).

Example 3) At the time of combination with IR-1, 0.14SQ (7/0.16), finish contour f 1.34, Cure PE isolation outer bark electric wire made in Showa Electric Wire & Cable Co.,Ltd. and 37104-3163-000 FL made in 3M

An average of 23.0N (the fewest 18.8N).

Quality Performance

Unit Characteristics

TEST	REQUIREMENT	TEST CONDITION	RELATED STD.
DESCRIPTION			Reference
Dielectric with-	No appearance of arcing	Impressed voltage is AC 1000V rms between	MIL-202F-301
standing voltage	and break down.	two adjacent contacts for 1 minutes.	
	Leak current : 1mA MAX		
Insulation	1000M MIN	Impressed voltage is DC500V between two	MIL-202F-302
Resistance		adjacent contacts for 1minutes.	

Mating characteristic

It depends on combination with the Mini-Clamp connector series 372XX & 37304 series

It depends on combination with the Mini-Clamp connector series 572XX & 57504 series			
TEST	REQUIREMENT	TEST CONDITION	RELATED STD.
DESCRIPTION			Reference
Insertion & Withdrawal Force (Initial)	Insertion 2N/pin MAX. Withdrawal 0.5N/pin MIN.	Tensile speed : 5mm/min. Spec. value is estimated by one contact pin.	
Retention Force of Latch	58.8N MIN.	Tensile speed: 25mm/min.	
Vibration	Electrical properties shall be stable after test. Discontinuity 1 sec. Max.	Tested during vibration test together (See table 1)	MIL-202F-201 A
Shock	Electrical properties shall be stable after test. Discontinuity 1 sec. Max.	50G , 11 m sec , 3 cycles, 3 directions (X,Y,Z)	MIL-202F-213 B

Electrical Specifications

TEST	REQUIREMENT	TEST CONDITION	RELATED STD.
DESCRIPTION			Reference
Electrical	Electrical properties shall	Tested during Vibration test together	Refer TABLE-2
Continuity	be state under test.		
	Discontinuity 1 sec		
	MAX.		
Contact Resistance	The initial readings are in	The low-signal level contact resistance shall be	
	milli-ohms. 20m MAX.	tested with circuit current of 1mA and open	
		circuit voltage of 20 mV maximum. The	
		termination resistance includes bulk resistance	
		of contact, and resistance of solder joints of	
		connectors to circuit boards.	

Tel.: 02131 / 14 2040 Fax.: 02131 / 14 2065 E-Mail: 3minterconnects.de



Electrical Specifications

Contact Resistance	After evaluation tests	FL type	Refer TABLE-2
	readings are the change in	- 3M SEQUENCE 1 Mating(50	
	resistance from the initial	cycles) Moisture Salt splay	
	reading in milli-ohms.	- 3M SEQUENCE 2 Thermal	
	± 25 m MAX.	shock Humidity Vibration	
		- 3M SEQUENCE 3 Temperature life	
		-H2S GAS SEQUENCE Mating (50	
		cycles) H2S gas	
		-Durability Mating (500 cycles)	

Environmental Tests

ITEM	TEST CONDITION		RELATED STD.
			Reference
Moisture	-10 to 65°C, 95%RH / 10 cycles	-10 to 65°C, 95%RH / 10 cycles	
Salt spray	Salt solution : 5% (NaCl) Temperature : 35		MIL-202F-101 D
	Duration: 48 hours	Duration: 48 hours	
Thermal shock	$-55^{\circ}C => 25^{\circ}C => 85^{\circ}C => 25^{\circ}C / 5$ cycles		MIL-202F-107 G
Humidity	Temperature range : 40	Relative humidity : 95%RH	MIL-202F-103 B
(Steady state	Duration: 96 hours	-	
Temperature Life	Temperature : 85°C	Current : 1A	MIL-202F-108 A
	Duration: 1000 hours		
H ₂ S gas	H_2S gas : $3\pm$ PPM	Temperature : 40	JEIDA-34-1984
	Humidity: 70~80%RH	Duration: 96 hours	
Vibration	Sweep freq.: 10~55Hz, amplitude: 1.52mm (or 10G)		MIL-202F-213 B
	Sweep cycle: 1 min, sweep time: 2 hours		
	Sweep directions: X, Y, Z		

STORAGE CONCITION

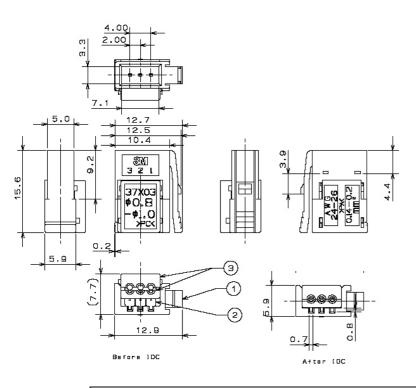
-22 degrees to 55 degrees, Relative humidity 5-95%, Without dewdrop and a drop of water.

PACKAGE & IDENTIFICATION

It puts it in plastic tray, and this article is shipped with form packed with carton more. Carton box is identified of 1) part number, 2) quantity, and 3) maker name and 4) lot number.

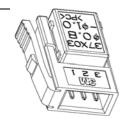


Wiremount Plug 3 position

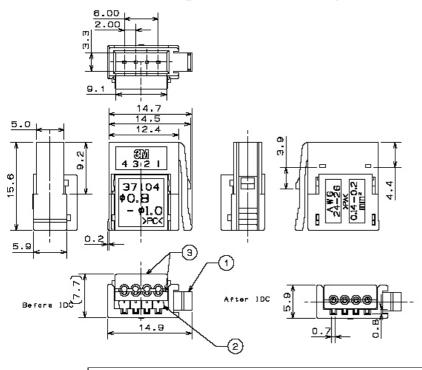


37103-3101-000 FL	rot
37103-3122-000 FL	Gelb
37103-3163-000 FL	Orange
37103-2124-000 FL	grün
37103-2165-000 FL	Blau
37103-2206-000 FL	grau

Wiremount Plug 4 position







37104-3101-000 FL	rot
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