



JNPS-0827C

製品仕様書
Product Specification

3M 印
1.27mm ピッチ
フラットケーブル用コネクタ
4列 PCB コネクタ 34XX シリーズ
34XX-0000 PR、3721-0000 PR
(日本国内専用型番)

3M Brand
Connector for
1.27mm Pitch Flat Cable
4 Row PCB Connector 34XX Series
34XX-0005 PR, 3721-0005 PR
(Worldwide Numbering)

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1. FUNCTION

This connector is one of board mount connectors designed for IDC (Insulation Displacement Connector) connection with 1.27mm pitch flat cable. This connector has 4 rows of plural U-elements at topside and 4 rows of contact tails at bottom side. Then, this connector has the function of electrical connection between cable and PC board.

2. COMPATIBLE OBJECTS

2-1 WIRE ACCOMODATION

28 AWG Stranded *corresponding with UL Style 2651

2-2 COMPATIBLE BOARD

Thickness: 1.6mm \pm 0.2mm

Through hole diameter: ϕ 0.8mm \pm 0.1mm

* Refer to the drawing 3U-0010-2261-6.

3. RELATED SPECIFICATION DRAWINGS

See the drawings described in JNPD-0827.

4. RELATED TEST STANDARDS

MIL-STD-202

JEIDA-38-1984

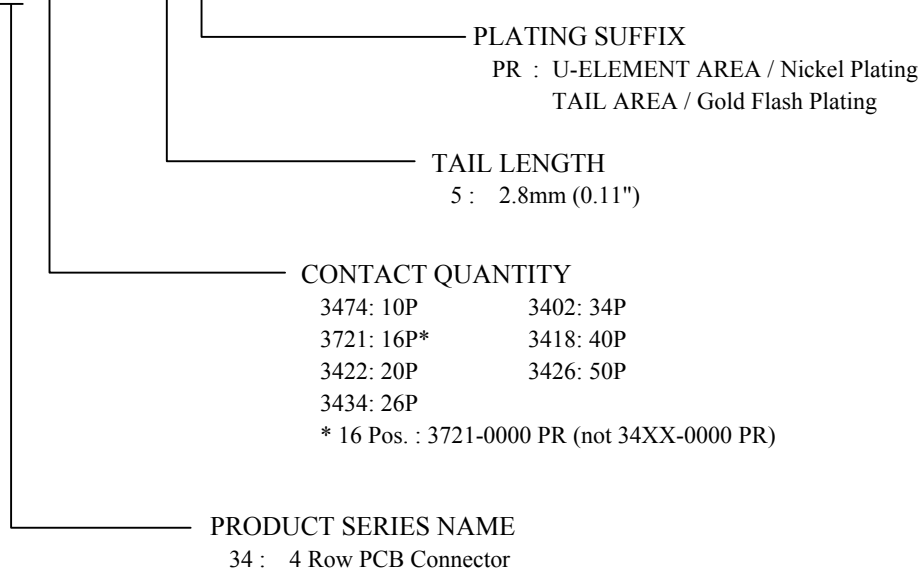
JIS C 0050

JNTM-0039, JNTM-0040

*JNTM: Test Method Standard of Sumitomo 3M for Electronic and Electrical Component Parts.

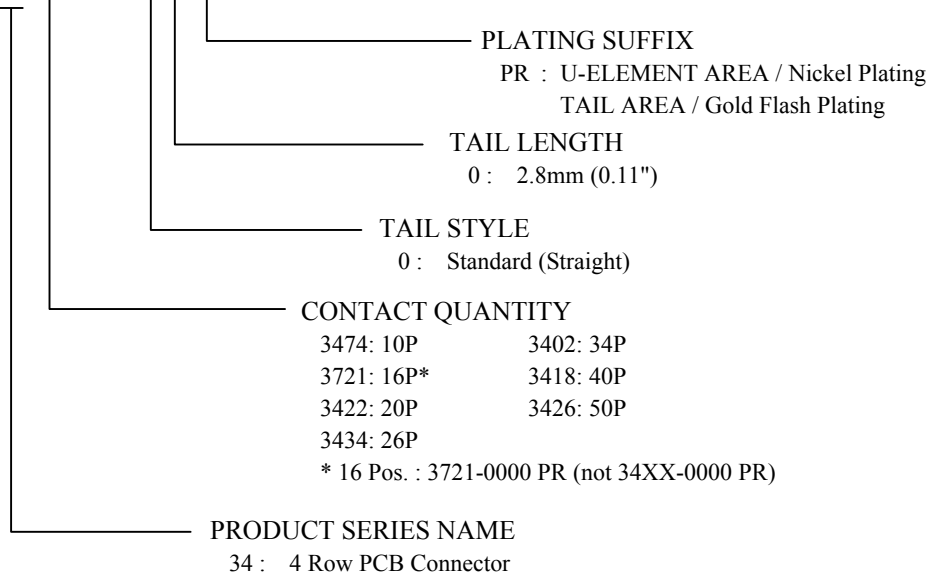
5. APPLICATION

PRODUCT NUMBER INFORMATION (Worldwide Numbering)

34XX - 000 5 PR

(Note) These products have two kinds of numbering, Japanese Special Numbering and Worldwide Numbering. Japanese Special Numbering is used in Japanese specification and Worldwide Numbering is used in English specification.

Reference : PRODUCT NUMBER INFORMATION (Japanese Special Numbering)

34XX - 00 0 0 PR

6. QUALITY PERFORMANCE

6-1 RATING

ITEM	RATING
CURRENT VOLTAGE TEMPERATURE	1.0A Max. AC: 250V Max. / DC: 300V Max. -55°C ~ 105°C

6-2 PHYSICAL SPECIFICATIONS

* The value in () is reference.

TEST DESCRIPTION	REQUIREMENT	TEST CONDITION	RELATED STANDARD
VIBRATION	Electrical discontinuity: Less than 1 μ s	Sweep Freq.: 10~55Hz, Amplitude: 1.52mm(or 98 m/s ²), Sweep Cycle: 1min., Sweep time: 2 hours Sweep in each direction: (X,Y,Z)	MIL-STD- 202F 101A
MECHANICAL SHOCK	Electrical discontinuity: Less than 1 μ s	490 m/s ² , 11ms, Half sine shock pulse. 3 times / X,Y,Z directions (Total 18 times)	MIL-STD- 202E 213B
SOLDERABILITY	Wetting: 95% Min. or Zero cross time: 3 seconds Max.	Solder: Sn-3Ag-0.5Cu - Wetting Measurement: 245°C, 3 seconds - Wetting Balance Method: 245°C	JNTM-0039 JIS C 0050
SOLDERING HEAT RESISTANCE	Connector should not have any defect portions after test.	Dip soldering: 260°C, 10 seconds, 2 times or 263°C, 5 seconds, 2 times * without Pre-heating Soldering Iron: Dependence on soldering conditions. * It need the evaluation under actual conditions.	JNTM-0040

6-3 ELECTRICAL SPECIFICATIONS

TEST DESCRIPTION	REQUIREMENT	TEST CONDITION	RELATED STANDARD
DIELECTRIC WITHSTANDING VOLTAGE	No appearance of arcing and break down. Leak current: 1mA Max.	Impressed voltage is AC 1000V rms. between adjacent two contacts for one minute.	_____
INSULATION RESISTANCE	1000MΩ Min.	Impressed voltage is DC 500V between adjacent two contacts for one minute.	_____
CONTACT RESISTANCE	- Initial / 25 mΩ Max. - Change of contact resistance after environmental tests / 20 mΩ Max.	Contact resistance is measured at Short Circuit. Current: 1.5mA Open Circuit Voltage: 20mV by 4 terminal method. * Measurement values include the resistance of contact pins as conductive material. * Refer to Table 1 regarding the conditions of each environmental test.	See Table 1.

Table 1: ENVIROMENTAL TEST

ITEM	TEST CONDITION	RELATED STANDARD
MOISTURE	-10 ~ 65°C, Relative Humidity 95% / 10 cycles	MIL-STD-202F106D
SALT SPRAY	NaCl 5% solution, 35°C / 48 hours	MIL-STD-202F101D
THERMAL SHOCK	-55°C→25°C→85°C→25°C / 5 cycles	MIL-STD-202F107G
HUMIDITY (STEADY STATE)	40°C, Relative Humidity 95% / 96 hours	MIL-STD-202F103B
THERMAL LIFE	Steady Current: Current Rating × 110%, 85°C / 1000 hours	_____
H ₂ S GAS	3 ± 1 ppm, 40°C, Relative Humidity 70 ~ 80% / 96 hours	JEIDA-38-1984

7. PLATING SPEC INDICATION ON CONNECTOR

The first letter, in stamped 3 letters on the connector body for lot numbering, identified the following plating specs.

N XX or n XX: PR plating

* XX : two alphabet letters

8. PACKAGE & IDENTIFICATION

These products are packed with plastic tray and carton box for transit.
Carton box are identified by part number, quantity, maker name and lot number.

9. STORAGE

This products shall be stored in a room, ambient temperature 5 ~ 35°C, and ambient humidity 40 ~ 70%.