

ELCO
2mm Hard Metric
Connectors for Compact PCI

Compact PCI® IEC 1076-4-101 ELCO Multi-Line Module Connector

The Elco Multi-Line Module connectors, Series 8071 are 2mm 'Hard Metric' Press-fit connectors which meet the requirement of the Compact PCI® specification as set forth in IEC 1076-4-101. They are suitable for use as P1-5/J1-5 connectors in Compact PCI® bus applications. The 95 pin version is suitable for use as the P0/J0connector in the VME64 Extensions format.

Receptacles are available with 55, 95 110, 125 signal pins arranged in 5 pin rows plus shield. Plugs have 5 signal pins plus 2 ground pins per row and may be specified for front and rear sequenced mating. Coding keys are available for the 110 pin 'Type A' plug and receptacle. Shrouds for rear mating do not require spacers. The Multi-Line Module connectors use Elco's Varipin® press-fit compliant pin. The receptacle requires no special tooling for insertion, the plug requires only a simple press-in tool.

SPECIFICATIONS

Number of Signal Contacts	55, 95, 110, 125
Contact Spacing	2.0mm grid
Current Rating	1 Amp. Max
Voltage Rating	250V Max
Contact Resistance	20m ohm
Operating Temperature	-50 to +125 °C

MATERIAL/FINISH

Insulator	Plug	Polyester
	Rec.	Polyester
Contact	Plug	Phosphor Bronze
	Rec.	Phosphor Bronze
		Finish/Gold over Nickel
Shroud		Polyester

Press-Fit:

All contact are press-fit termination which requires plated through hole as follows.

P.C. Board Thickness: 1.4~4.2mm

Drilled Hole: 0.7±0.025

Copper Plate: 25~50µ

Tin-Lead Plate: 4~10µ

Plated Hole: 0.6±0.05

Sequential Mating:

Plug has 3 pin lengths available in 1.5mm increments to enable sequential mating.

Finish Code:

833/515: 500 Cycles/ 0.635um PdNi + 0.1um Gold, 1.2um Tin-Lead P/F area

840/519: 250 Cycles/ 0.38um Gold, 1.2um Tin-Lead P/F area

862/518: 50 Cycles/ 0.1um Gold, 1.2um Tin-Lead P/F area

515,519,518 are long tail version, plated in 2 mating areas for use with shroud for rear mating.

Right Angle Receptacle, Type A for Daughter Card

ORDERING CODE

27 8071 110 XXX XXX

VARIATION CODE

001 : Type A / with Code Key / without Shield

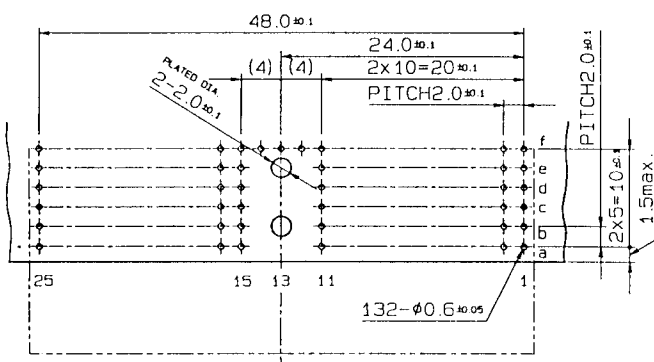
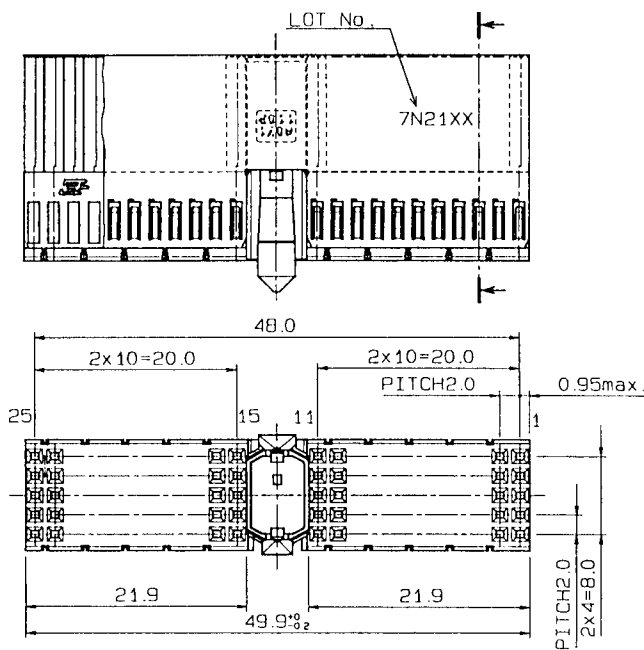
101 : Type A / with Code Key / with Shield

FINISH CODE

833 : 500 Cycles

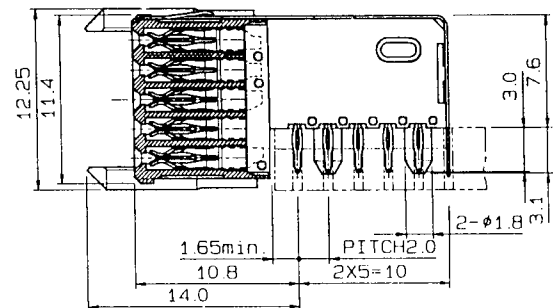
840 : 250 Cycles

862 : 50 Cycles

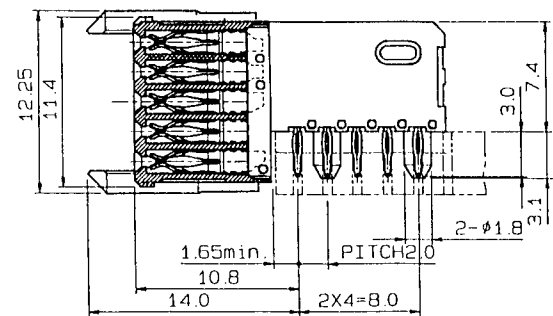


RECOMMENDED P.C. BOARD HOLE LAYOUT
(COMPONENT SIDE SHOWN)

101: with Shield



001: without Shield



Right Angle Receptacle, Type B for Daughter Card

ORDERING CODE

27 8071 XXX XXX XXX

NUMBER OF CONTACTS

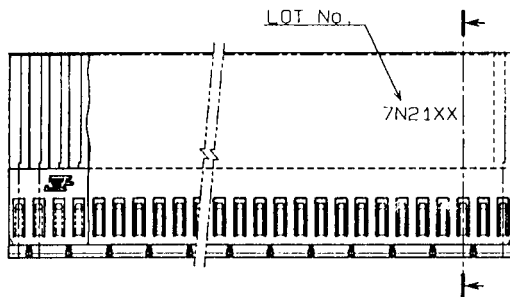
- 095 : 95 Signal Contacts
- 110 : 110 Signal Contacts
- 125 : 125 Signal Contacts

VARIATION CODE

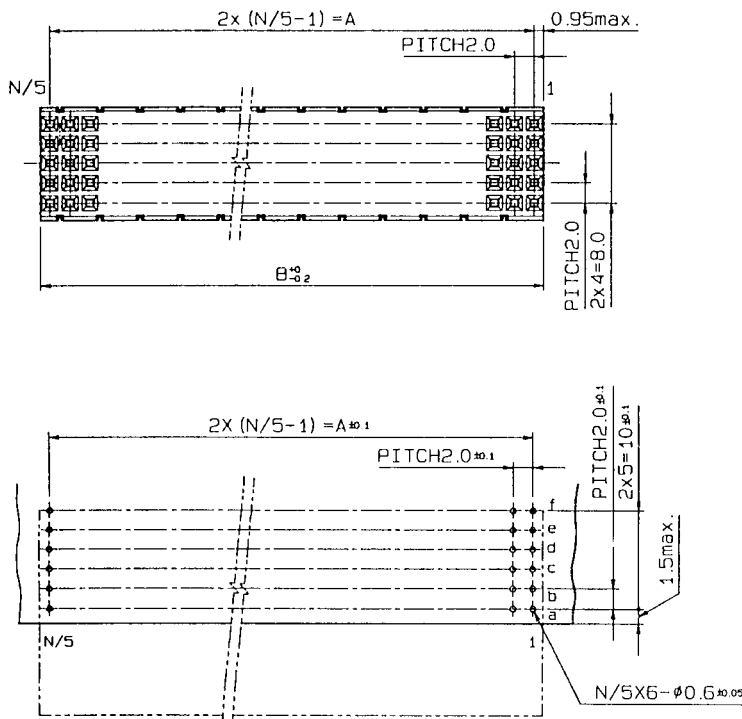
- 000 : Type B / without Code Key / without Shield
- 100 : Type B / without Code Key / with Shield

FINISH CODE

- 833 : 500 Cycles
- 840 : 250 Cycles
- 862 : 50 Cycles

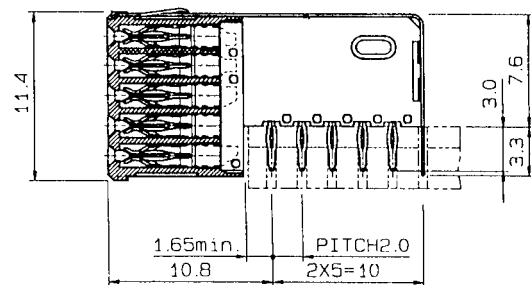


A	B
36.0	37.9
42.0	43.9
48.0	49.9

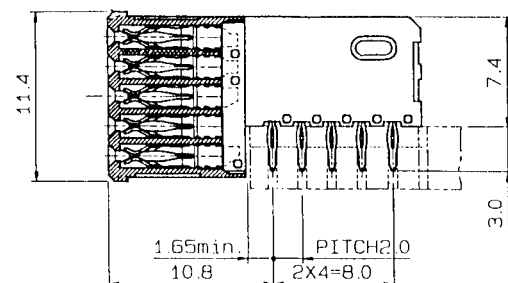


RECOMMENDED P.C. BOARD HOLE LAYOUT (COMPONENT SIDE SHOWN)

100: with Shield



000: without Shield



Straight Plug, Type A for Backplanes

ORDERING CODE _____ **17** **8071** **154** **XXX** **XXX**

VARIATION CODE _____

001 : Type A / with Code Key / Short Tail

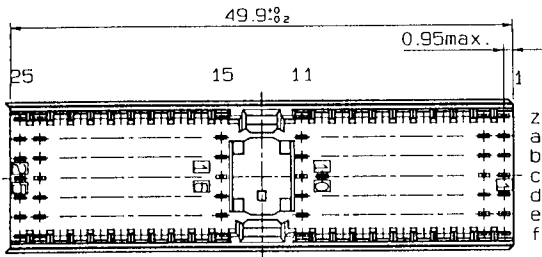
002 : Type A / with Code Key / Long Tail type 1

FINISH CODE _____

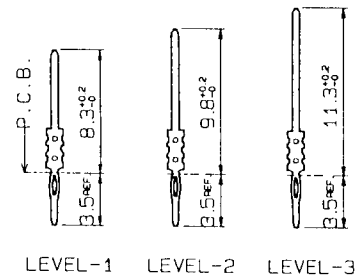
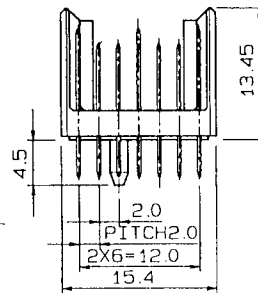
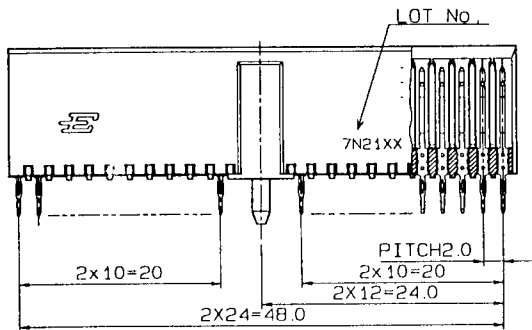
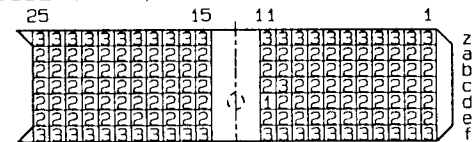
833/515 : 500 Cycles

840/519 : 250 Cycles

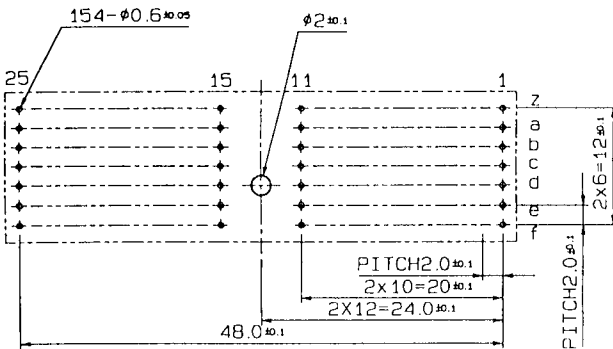
862/518 : 50 Cycles



CONTACT LAYOUT (CONNECTOR MATING SIDE SHOWN)

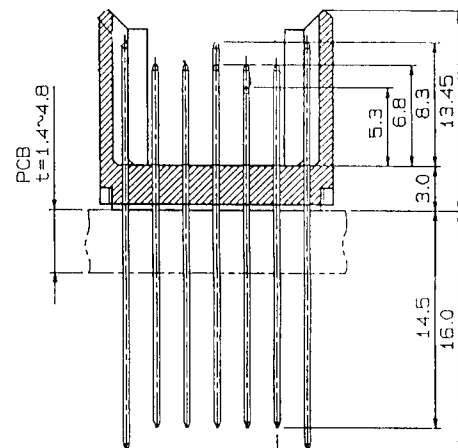


001: Short Tail



RECOMMENDED P.C. BOARD HOLE LAYOUT (COMPONENT SIDE SHOWN)

002: Long Tail type 1



Straight Plug, Type B for Backplanes

ORDERING CODE 17 8071 XXX XXX XXX

NUMBER OF CONTACTS

- 133 : 95 Signal Contacts / 38 Ground Contacts
- 154 : 110 Signal Contacts / 44 Ground Contacts
- 175 : 125 Signal Contacts / 50 Ground Contacts

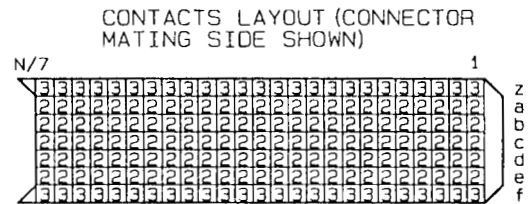
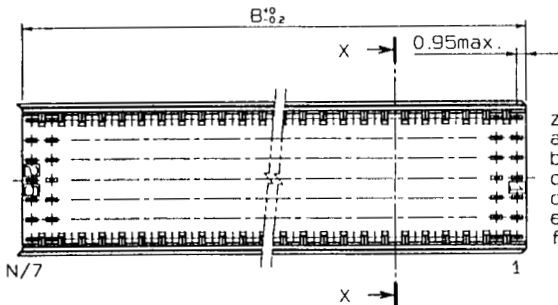
VARIATION CODE

- 000 : Type B / without Code Key / Short Tail
- 003 : Type B / without Code Key / Long Tail type 1

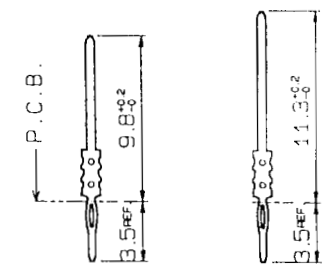
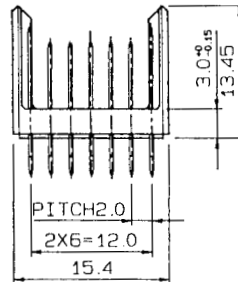
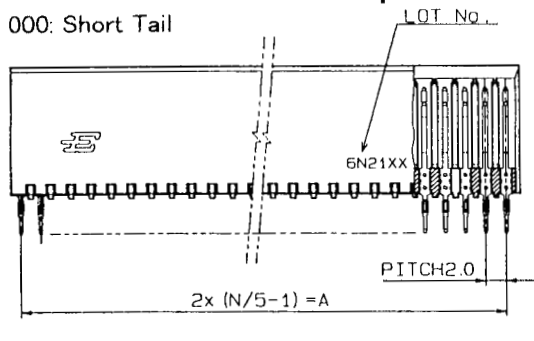
FINISH CODE

- 833/515 : 500 Cycles
- 840/519 : 250 Cycles
- 862/518 : 50 Cycles

A	B
36.0	37.9
42.0	43.9
48.0	49.9

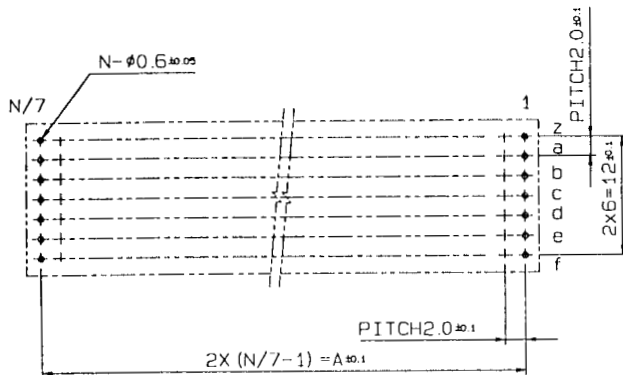


000: Short Tail



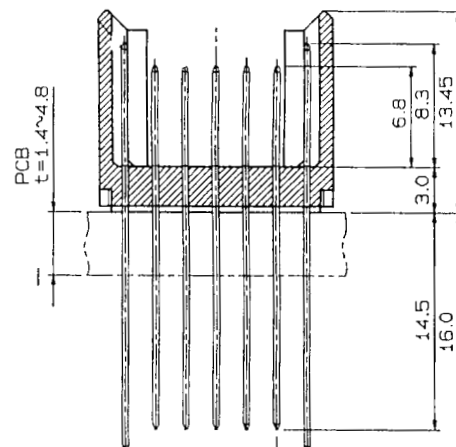
LEVEL-2

LEVEL-3



RECOMMENDED P.C. BOARD LAYOUT (COMPONENT SIDE SHOWN)

003: Long Tail type 1



Shroud, Type A & B for Backplanes

ORDERING CODE

61 8071 XXX XXX 007

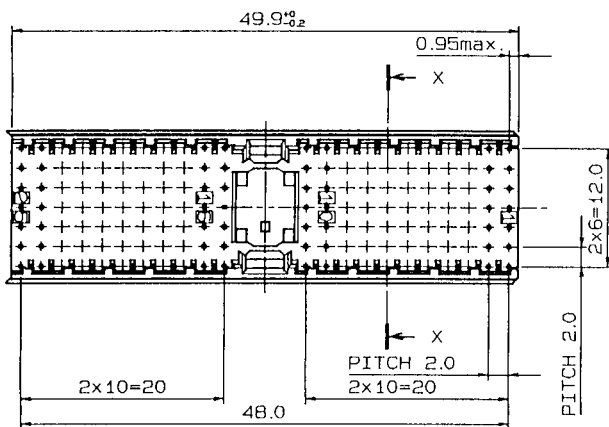
NUMBER OF CAVITIES

- 133 : 133 Cavities Type B 19X
- 154 : 154 Cavities Type B 22X or Type A 22X
- 175 : 175 Cavities Type B 25X

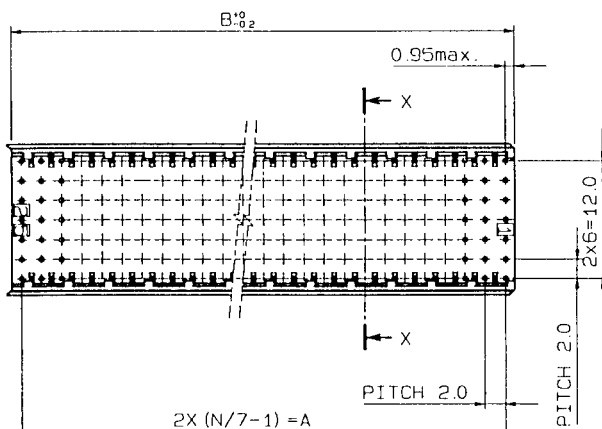
VARIATION CODE

- 301 : Type A / with Code Key / Base Thickness L=3.0 H=13.45
- 311 : Type A / with Code Key / Base Thickness L=3.8 H=14.25
- 321 : Type A / with Code Key / Base Thickness L=4.6 H=15.05
- 300 : Type B / without Code Key / Base Thickness L=3.0 H=13.45
- 310 : Type B / without Code Key / Base Thickness L=3.8 H=14.25
- 320 : Type B / without Code Key / Base Thickness L=4.6 H=15.05

Type A

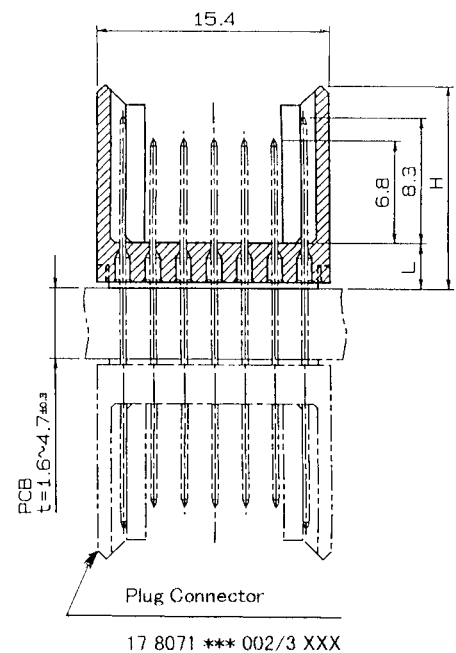


Type B



Type B dim

A	B
36.0	37.9
42.0	43.9
48.0	49.9



Series 8071



Coding Keys, for Type A

ORDERING CODE

8X

8071

000

XXXXXX

PREFIX

81 : For Plug (Backplanes)

82 : For Receptacle (Daughter Card)

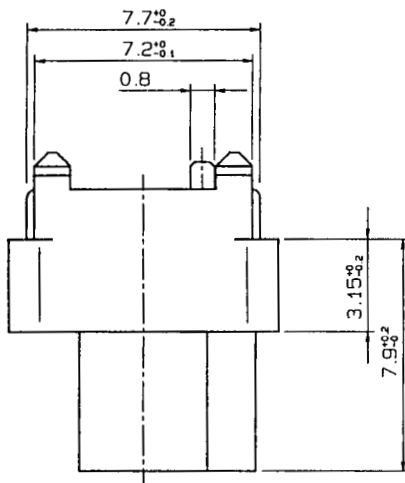
KEY CODE NUMBER

101003 : Cadmium Yellow, 3456: Plug / 1278:Rec. 3.3V C-PCI

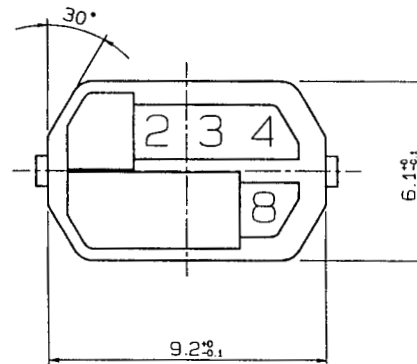
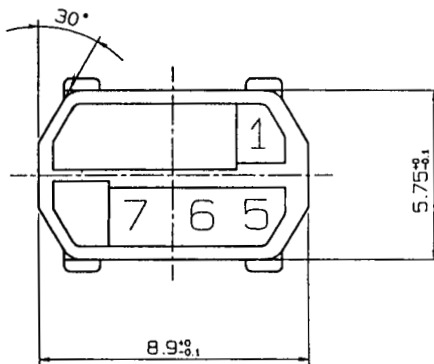
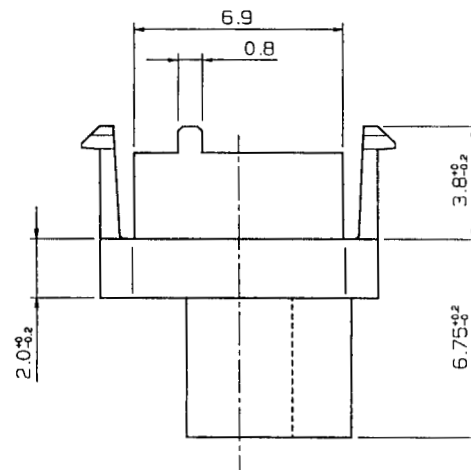
102006 : Brilliant Blue, 1567: Plug / 2348:Rec. 5.0V C-PCI

103008 : Pastel Orange, 3568: Plug / 1247:Rec.

81 : For Plug



82 : For Receptacle



101003	102006	103008
CADMIUM YELLOW	BRILLIANT BLUE	PASTEL ORANGE

101003	102006	103008
CADMIUM YELLOW	BRILLIANT BLUE	PASTEL ORANGE



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