NF Connectors

		pages
Latch Header (1.27mm)	Right Angle, Solder Dip	54-55
Latch Header (1.27mm)	Straight, Solder Dip	56-57
Latch Header (1.27mm)	Straight, Solder Dip	58-59
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Latch Header (1.27mm, Right Angle, Solder Dip)

NFP SERIES

ORDERING INFORMATION





TYPES OF PLATING

Characteristics Current Rating: 0.5A Insulation Resistance: 1,000M | Minimum at 500 VDC 500 VAC for 1 minute Withstanding Voltage: Contact Resistance: 15m | Max. at 10mA -20°C ~ +85°C Operating Temperature: **Material and Finish** High Temp Thermoplastic-UL94V-0 Insulator: Contact: Copper Alloy Plating: Mating Face Contacts: Au over Ni Terminals: Au or SnPb over Ni **Features** 1. Right-angle terminals 2. Short or long latches 3. Long terminal available

- 4. Variety of plating options
- 5. Latches eject receptacle
- 6. Central polarizing key

Plating Type	Under Plate	Mating Face	Terminais
AS	NI 2.5 ~ 4.5 µm	Au 0.76µm Min.	SnPb 2.0 ~ 4.0µm
BS	NI 2.5 ~ 4.5 µm	Au 0.30µm Min.	<u>SnPb 2.0 ~ 4.0µm</u>
AF	Ni 2.5 ~ 4.5 µm	Au 0.76µm Min.	Au 0.05µm Min.
BF	Ni 2.5 ~ 4.5 µm	Au 0.30µm Min.	Au 0.05µm Min.

CONNECTOR DIMENSIONS (reference only)

Part Number (0,†)	No. of Positions	Pitch	A		C	D	E	F	G	Н
NFP-10A-01*2-**	10	1.27mm	24.28	5.08	11.58	15.08	38.20	40.20	17.20	8.30
NFP-16A-01*2-**	16	1.27mm	28.09	8.89	15.39	18.89	42.00	44.00	17.20	8.30
NFP-20A-01*2-**	20	1.27mm	30.63	11.43	17.93	21.43	44.60	46.60	17.20	8.30
NFP-26A-01*2-**	26	1.27mm	34.44	15.24	21.74	25.24	48.40	50.40	17.20	8.30
NFP-34A-01*2-**	34	1.27mm	39.52	20.32	26.82	30.32	53.50	55.50	17.20	8.30
NFP-40A-01*2-*-**	40	1.27mm	43.33	24.13	30.63	34.13	57.30	59.30	17.20	8.30
NFP-50A-01*2-*-**	50	1.27mm	49.68	30.48	36.98	40.48	63.60	65.60	17.20	8.30
NFP-60A-01*2-*-**	60	1.27mm	56.03	36.83	43.33	46.83	70.00	72.00	17.20	8.30
NFP-64A-01*2-*-**	64	1.27mm	58.57	39.37	45.87	49.37	72.50	74.50	17.20	8.30
NFP-80A-01*2-*-**	80	1.27mm	68.73	49.53	56.03	59.53	82.70	84.70	17.20	8.30
NFP-100A-01*2-*-**	100	1.27mm	81.43	62.23	68.73	72.23	95.40	97.40	17.20	8.30

Short Latch

Positions 50, 60, 64, 80,100 available in long terminals

† Long Latch

Positions 40, 64, 80, 100 available in long terminals

YAMAICHI ELECTRONICS USA

APPLICABLE DIMENSIONS (reference only)

Connector Outline Dimensions



Contact Detail



X= 6.5 (Short latch type) 4.0 (Long latch type)

Y= 2.7 (Short terminal length) 4.6 (Long terminal length)

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PCB Layout



10, 26, 34, 50 Contacts



Note: Left half of this PCB layout is identical to Section A 16, 20, 40, 60, 64, 80, 100 Contacts

Latch Header (1.27mm, Straight, Solder Dip)

NFP SERIES

ORDERING INFORMATION





TYPES OF PLATING

Characteristics Current Rating: 0.5A Insulation Resistance: 1,000M | Minimum at 500 VDC 500 VAC for 1 minute Withstanding Voltage: Contact Resistance: 15m | Max. at 10mA Operating Temperature: -20°C ~ +85°C **Material and Finish** Insulator: High Temp Thermoplastic-UL94V-0 Contact: Copper Alloy Plating: Mating Face Contacts: Au over Ni Terminals: Au or SnPb over Ni Features 1. Straight terminals 2. Short or long latches 3. Long terminal available

- 4. Variety of plating options
- 5. Spring pin for secure mount
- 6. Latches eject receptacle
- 7. Central polarizing key

Plating Type	Under Plate	Mating Face	Terminals
AS	Ni 2.5 ~ 4.5 µm	Au 0.76µm Min.	SnPb 2.0 ~ 4.0µm
BS	NI 2.5 ~ 4.5 µm	Au 0.30µm Min.	SnPb 2.0 ~ 4.0µm
AF	NI 2.5 ~ 4.5 µm	Au 0.76µm Min.	Au 0.05µm Min.
BF	NI 2.5 ~ 4.5 µm	Au 0.30µm Min.	Au 0.05µm Min.

CONNECTOR DIMENSIONS (reference only)

Part Number(0,†)	No. of Positions	Pitch	A	B	C	D	E	F	Q	н
NFP-10A-01*4-**	10	1.27mm	24.28	5.08	11.58	15.08	38.20	40.20	17.20	8.30
NFP-16A-01*4-**	16	1.27mm	28.09	8.89	15.39	18.89	42.00	44.00	17.20	8.30
NFP-20A-01*4-**	20	1.27mm	30.63	11.43	17.93	21.43	44.60	46.60	17.20	8.30
NFP-26A-01*4-*-**	26	1.27mm	34.44	15.24	21.74	25.24	48.40	50.40	17.20	8.30
NFP-34A-01*4-*-**	34	1.27mm	39.52	20.32	26.82	30.32	53.50	55.50	17.20	8.30
NFP-40A-01*4-*-**	40	1.27mm	43.33	24.13	30.63	34.13	57.30	59.30	17.20	8.30
NFP-50A-01*4-*-**	50	1.27mm	49.68	30.48	36.98	40.48	63.60	65.60	17.20	8.30
NFP-60A-01*4-*-**	60	1.27mm	56.03	36.83	43.33	46.83	70.00	72.00	17.20	8.30
NFP-64A-01*4-**	64	1.27mm	58.57	39.37	45.87	49.37	72.50	74.50	17.20	8.30
NFP-80A-01*4-*-**	80	1.27mm	88.73	49.53	56.03	59.53	82.70	84.70	17.20	8.30
NFP-100A-01*4-*-**	100	1.27mm	81.43	62.23	68.73	72.23	95.40	97.40	17.20	8.30

Short Latch

Positions 26, 34, 40, 50, 80,100 available in long terminals

† Long latch

Positions 60, 80,100 available in long terminals

YAMAICHI ELECTRONICS USA

APPLICABLE DIMENSIONS (reference only)

Connector Outline Dimensions



Contact Detail



X= 6.5 (Short latch type) 4.0 (Long latch type)

Y= 2.7 (Short terminal length) 4.6 (Long terminal length)

PCB Layout



10, 26, 34, 50 Contacts



Note: Left half of this PCB layout is identical to Section A 16, 20, 40, 60, 64, 80, 100 Contacts

ORDERING INFORMATION





TYPES OF PLATING

Characteristics Current Rating: 0.5A Insulation Resistance: 1,000M | Minimum at 500 VDC 500 VAC for 1 minute Withstanding Voltage: Contact Resistance: 15m | Max. at 10mA Operating Temperature: -20°C ~ +85°C **Material and Finish** Insulator: High Temp Thermoplastic-UL94V-0 Contact: Copper Alloy Plating: Mating Face Contacts: Au over Ni Terminals: Au or SnPb over Ni Features 1. Straight terminals 2. Short or long latches

3. Variety of plating options

4. Long terminal available

5. Latches eject receptacle

6. Central polarizing key

Plating Type	Under Plate	Mating Face	Terminals
AS	NI 2.5 ~ 4.5 µm	Au 0.76µm Min.	SnPb 2.0 ~ 4.0µm
BS	NI 2.5 ~ 4.5 µm	Au 0.30µm Min.	SnPb 2.0 ~ 4.0µm
AF	NI 2.5 ~ 4.5 µm	Au 0.76µm Min.	Au 0.05µm Min,
BF	Ni 2.5 ~ 4.5 µm	Au 0.30µm Min.	Au 0.05µm Min.

CONNECTOR DIMENSIONS (reference only)

Part Number(0,†)	No. of Positions	Pitch	A		C	D			G
NFP-10A-03*4-*-**	10	1.27mm	24.28	5.08	11.58	20.48	38.20	40.20	8.30
NFP-16A-03*4-**	16	1.27mm	28.09	8.89	15.39	24.29	42.00	44.00	8.30
NFP-20A-03*4-**	20	1.27mm	30.63	11.43	17.93	26.83	44.60	46.60	8.30
NFP-28A-03*4-**	26	1.27mm	34.44	15.24	21.74	30.64	48.40	50.40	8.30
NFP-34A-03*4-**	34	1.27mm	39.52	20.32	26.82	35.72	53.50	55.50	8.30
NFP-40A-03*4-**	40	1.27mm	43.33	24.13	30.63	39.53	57.30	59.30	8.30
NFP-50A-03*4-*-**	50	1.27mm	49.68	30.48	36.98	45.88	63.60	65.60	8.30
NFP-60A-03*4-*-**	60	1 <i>.</i> 27mm	56.03	36.83	43.33	52.23	70.00	72.00	8.30
NFP-64A-03*4-**	64	1.27mm	58.57	39.37	45.87	54.77	72.50	74.50	8.30
NFP-80A-03*4-*-**	80	1.27mm	68.73	49.53	56.03	64.93	82.70	84.70	8.30
NFP-100A-03*4-*-**	100	1.27mm	81.43	62.23	68.73	77.63	95.40	97.40	8.30

Short Latch

Positions 10, 50, 60, 80,100 available in long terminals

+ Long Latch

Positions 60, 80, 100 available in long terminals

YAMAICHI ELECTRONICS USA

APPLICABLE DIMENSIONS (reference only)

Connector Outline Dimensions







Contact Detail





X= 6.5 (Short latch type) 4.0 (Long latch type)

Y= 2.7 (Short terminal length) 4.6 (Long terminal length)

PCB Layout







16, 20, 40, 60, 64, 80, 100 Contacts

Box Header (1.27mm, Right Angle, Solder Dip)

NFP SERIES

ORDERING INFORMATION





Characteristics

enanaotoniotioo	
Current Rating:	0.5A
Insulation Resistance:	1,000M Minimum at 500 VDC
Withstanding Voltage:	500 VAC for 1 minute
Contact Resistance:	15m Max. at 10mA
Operating Temperature:	-20°C ~ +85°C

Material and Finish

High Temp Thermoplastic-UL94V-0 Copper Alloy Mating Face Contacts: Au over Ni Terminals: Au or SnPb over Ni

Features

Insulator:

Contact:

Plating:

- 1. Right-angle terminals
- 2. Variety of plating options
- 3. Central polarizing key

TYPES OF PLATING

Plating Type	Under Plate	Mating Face	Terminuls
AS	Ni 2.5 ~ 4.5 µm	Au 0.76µm Min.	SnPb 2.0 ~ 4.0µm
BŞ	Ni 2.5 ~ 4.5 µm	Au 0.30µm Min.	SnPb 2.0 ~ 4.0µm
AF	Ni 2.5 ~ 4.5 µm	Au 0.76µm Min.	Au 0.05µm Min.
BF	Ni 2.5 ~ 4.5 µm	Au 0.30µm Min.	Au 0.05µm Min.

CONNECTOR DIMENSIONS (reference only)

Part Number	No. of Positions	Pitch			C	D
NFP-16A-0132-**	16	1.27mm	17.85	8.89	15.39	8.50
NFP-20A-0132-**	20	1.27mm	20.39	11.43	17.93	8.50
NFP-26A-0132-**	26	1.27mm	24.20	15.24	21.74	8.50
NFP-34A-0132-**	- 34	1.27mm	29.28	20.32	26.82	8.50
NFP-40A-0132-**	40	1.27mm	33.09	24.13	30.63	8.50
NFP-50A-0132-**	50	1.27mm	39.44	30.48	36.98	8.50
NFP-60A-0132-**	60	1.27mm	45.79	36.83	43.33	8.50
NFP-80A-0132-**	80	1.27mm	58.49	49.53	56.03	8.50

APPLICABLE DIMENSIONS (reference only)

Connector Outline Dimensions



Contact Detail





PCB Layout



26, 34, 50 Contacts





Note: Left half of this PCB layout is identical to Section A

Box Header (1.27 mm, Straight Solder Dip)

NFP SERIES

ORDERING INFORMATION





Characteristics

Current Rating: Insulation Resistance: Withstanding Voltage: Contact Resistance: Operating Temperature:

Material and Finish

Insulator: Contact: -20°C ~ +85°C High Temp Thermoplastic-UL94V-0 Copper Alloy

1,000M | Minimum at 500 VDC 500 VAC for 1 minute

Mating Face Contacts: Au over Ni Terminals: Au or SnPb over Ni

Features

Plating:

1. Straight terminals

15m | Max. at 10mA

2. Variety of plating options

3. Central polarizing key

TYPES OF PLATING

Plating Type	Under Plate	Mating Face	Terminels
AS	Ni 2.5 ~ 4.5 µm	Au 0.76µm Min.	SnPb 2.0 ~ 4.0µm
BS	NI 2.5 ~ 4.5 µm	Au 0.30µm Min.	SnPb 2.0 ~ 4.0µm

0.5A

CONNECTOR DIMENSIONS (reference only)

Part Number	No. of Positions	Pitch			C	D
NFP-16A-0134-**	16	1.27mm	17.85	8.89	15.39	8.50
NFP-20A-0134-**	20	1.27mm	20.39	11.43	17.93	6.50
NFP-26A-0134-**	26	1.27mm	24.20	15.24	21.74	8.50
NFP-34A-0134-**	· 34	1.27mm	29.28	20.32	26.82	8.50
NFP-40A-0134-**	40	1.27mm	33.09	24.13	30.63	8.50
NFP-50A-0134-**	50	1.27mm	39.44	30.48	36.98	6.50
NFP-60A-0134-**	60	1.27mm	45.79	36.83	43.33	8.50
NFP-80A-0134-**	80	1.27mm	58.49	49.53	56.03	8.50

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NFP SERIES

APPLICABLE DIMENSIONS (reference only)

Connector Outline Dimensions



PCB Layout



26, 34, 50 Contacts









IDC Transition Header (1.27 mm)

NFP SERIES

ORDERING INFORMATION





Characteristics Current Rating: 1A Insulation Resistance: 1,000M | Minimum at 500 VDC Withstanding Voltage: 500 VAC for 1 minute Contact Resistance: 15m | Max. at 10mA Operating Temperature: -20°C ~ +85°C Material and Finish High Temp Thermoplastic-UL94

High Temp Thermoplastic-UL94V-0 Copper Alloy Mating Face Contacts: Au over Ni Terminals: Au or SnPb over Ni

Features

Contact:

Plating:

1. Unique three-fork IDC contact allows termination of 0.635mm pitch flat cable

2. Various plating options

APPLICABLE CABLES

Solid Wire AWG 30

Stranded Wire AWG 30

· Cable Spacing (0.635mm)

TYPES OF PLATING

Plating Type	Under Plate	Mating Face	Terminals
BS	NI 2.5 ~ 4.5 µm	Au 0.30µm Min.	SnPb 2.0 ~ 4.0µm
AF	NI 2.5 ~ 4.5 µm	Au 0.76µm Min.	Au 0.05µm Min.
BF	Ni 2.5 ~ 4.5 µm	Au 0.30µm Min.	Au 0.05µm Min.

CONNECTOR DIMENSIONS (reference only)

Part Number	No. of Positions	Pitch	A	B	C	D
NFP-10G-0100-**	10	1.27mm	11.08	5.08	6.95	3.30
NFP-16G-0100-**	16	1.27mm	14.89	8.89	6.95	3.30
NFP-20G-0100-**	20	1.27mm	17.43	11.43	6.95	3.30
NFP-26G-0100-**	26	1.27mm	21.24	15.24	6.95	3.30
NFP-34G-0100-**	34	1.27mm	26.32	20.32	6.95	3.30
NFP-40G-0100-**	40	1.27mm	30.13	24.12	6.95	3.30
NFP-50G-0100-**	50	1.27mm	36.48	30.48	6.95	3.30
NFP-60G-0100-**	60	1.27mm	42.83	36.83	6.95	3.30
NFP-84G-0100-**	64	1.27mm	45.37	39.37	6.95	3.30
NFP-88G-0100-**	68	1.27mm	47.90	41.91	6.95	3.30
NFP-80G-0100-**	80	1.27mm	55.53	49.53	6.95	3.30
NFP-100G-0100-**	100	1.27mm	68.23	62.23	6.95	3.30

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NFP SERIES

APPLICABLE DIMENSIONS (reference only)

Connector Outline Dimensions





PCB Layout



Contact Detail



IDC Receptacle (1.27 mm)

NFS SERIES

ORDERING INFORMATION



NFS- *** A-011	* = *
Socket Series	
No. of Positions	
Standard Socket	
1: With polarity Key	
0: Without Strain Relief 1: With Strain Relief	

Plating (see below)

APPLICABLE CABLES

Characteristics

Current Rating: nsulation Resistance: Withstanding Voltage: Contact Resistance: Dperating Temperature:	1A 1,000M Minimum at 500 VDC 500 VAC for 1 minute 15m Max. at 10mA -20°C ~ +85°C
Material and Finish	
nsulator: Contact: Plating: Accessories	High Temp Thermoplastic-UL94V-0 Copper Alloy Mating Face Contacts: Au over Ni Terminals: Au or SnPb over Ni Strain Reliefs (see page 86)
Features	
	 IDC contact allows termination of 0.635mm pitch flat cable Strain relief available to prevent kinking and caving Plating options available Central polarizing key

*

Solid Wire AWG 30

Stranded Wire AWG 30

· Cable Spacing (0.635mm)

TYPES OF PLATING

Plating Type	Under Plate	Mating Face	Terminels
AF	NI 2.5 ~ 4.5 µm	Au 0.76µm Min.	Au 0.05µm Min.
BF	NI 2.5 ~ 4.5 µm	Au 0.30µm Min.	Au 0.05µm Min.

CONNECTOR DIMENSIONS (reference only)

Part Number	No. of Positions	Pitch			C
NFS-10A-01**-**	10	1.27mm	11.08	5.08	6.00
NFS-16A-01**-**	16	1.27mm	14.89	8.89	6.00
NFS-20A-01**-**	20	1.27mm	17.43	11.43	6.00
NFS-26A-01**-**	26	1.27mm	21.24	15.24	6.00
NFS-34A-01**-**	34	1.27mm	26.32	20.32	6.00
NFS-40A-01**-**	40	1.27mm	30.13	24.12	6.00
NFS-50A-01**-**	50	1.27mm	36.48	30.48	6.00
NFS-60A-01**-**	60	1.27mm	42.83	36.83	6.00
NFS-64A-01**-**	64	1.27mm	45.37	39.37	6.00
NFS-80A-01**-**	80	1.27mm	55.53	49.53	6.00
NFS-100A-01**-**	100	1.27mm	68.23	62.23	6.00

NFS SERIES

APPLICABLE DIMENSIONS (reference only)

Connector Outline Dimensions





Contact Detail





Board to Board Receptacle (1.27 mm)

NFS SERIES

ORDERING INFORMATION





Characteristics

Current Rating: Insulation Resistance: Withstanding Voltage: Contact Resistance: Operating Temperature:

Material and Finish

High Temp Thermoplastic-UL94V-0 Copper Alloy

Mating Face Contacts: Au over Ni

Terminals: Au or SnPb over Ni

1,000M | Minimum at 500 VDC

500 VAC for 1 minute

15m | Max. at 10mA -20°C ~ +85°C

Features

Insulator:

Contact:

Plating:

1. Straight terminals

2. Terminal length (2.7mm)

TYPES OF PLATING

Plating Type	Under Plate	Nating Face	Terminats
BS	NI 2.5 ~ 4.5 µm	Au 0.30µm Min.	SnPb 2.0 ~ 4.0µm

1A

CONNECTOR DIMENSIONS (reference only)

Part Number	No. of Positions	Pitch	A		C
NFS-40A-1314**	40	1.27mm	30.13	24.12	8.00
NFS-50A-1314**	50	1.27mm	36.48	30.48	8.00
NFS-80A-1314**	60	1.27mm	42.83	36.83	8.00
NFS-64A-1314**	64	1.27mm	45.37	39.37	8.00
NFS-80A-1314**	80	1.27mm	55.53	49.53	8.00

NFS SERIES

APPLICABLE DIMENSIONS (reference only)

Connector Outline Dimensions



Contact Detail



PCB Layout

