

Pin connectors 2.54mm

Connecting Pin $\varnothing 0.47\text{mm}$ / $\varnothing 0.49\text{mm}$

Single row/double row

Solder tail

Series: PHA

Pin connectors, Solder tail

Technical Specs:

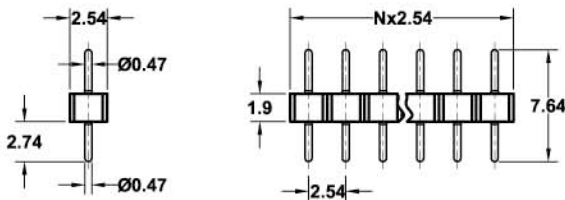
Insulator:	Black glass filled polyester PPS-GF30-FR
Flammability:	UL 94V-O
Sleeve:	Brass CuZn 36pb3(36000)
Mating pin \varnothing :	0.47 mm / 0.49 mm
Mechanical life:	min 500 cycles
Rated current:	3 A
Contact resistance:	max 10 m Ω
Dielectric strength:	min 1000V RMS



Ordering information

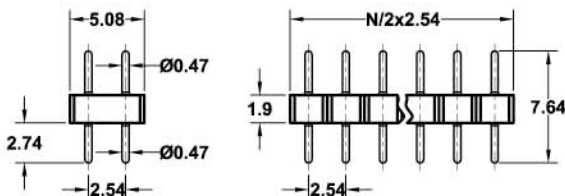
PHA - NNN X - A P 0764A

No. of Positions	Insulator Type code	Pin Plating code
	1 Single row	1 Tin150 μ "
	2 Double row	2 Tin200 μ "
		3 GF
		4 Gold2 μ "
		5 Gold3 μ "
		6 Gold10 μ "
		7 Gold15 μ "
		S Special



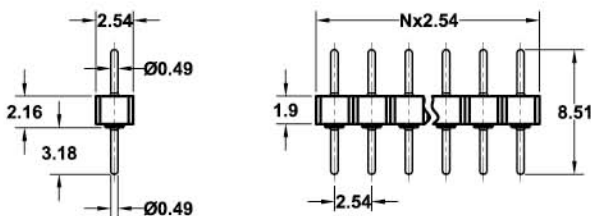
PHA-NNN1-AP 0764A

Straight pin connector ultralow profil height 1.9mm: solder tail, single row
Availability from: 2 to 40 contacts
Standard number of contacts 20, 32 and 40



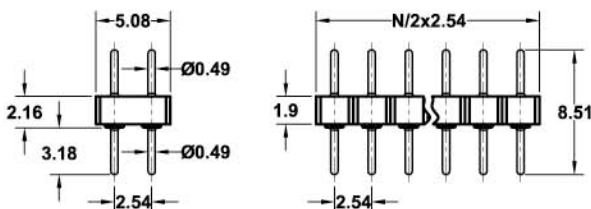
PHA-NNN2-AP 0764A

Straight pin connector ultralow profil height 1.9mm: solder tail, double row
Availability from: 4 to 80 contacts
Standard number of contacts 20, 56 and 72



PHA-NNN1-AP 0851A

Straight pin connector ultralow profil height 2.16mm: solder tail, single row
Availability from: 2 to 40 contacts
Standard number of contacts 20, 32 and 40



PHA-NNN2-AP 0851A

Straight pin connector ultralow profil height 2.16mm: solder tail, double row
Availability from: 4 to 80 contacts
Standard number of contacts 20, 56 and 72

Pin connectors 2.54mm

Connecting Pin $\varnothing 0.45\text{mm}$ / $\varnothing 0.48\text{mm}$

Single row/double row

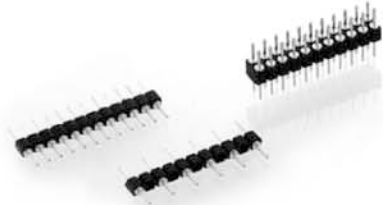
Solder tail

Series: PHA

Pin connectors, Solder tail

Technical Specs:

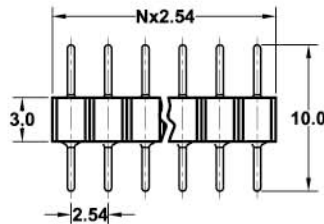
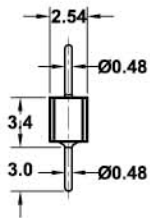
Insulator:	Black glass filled polyester PPS-GF30-FR
Flammability:	UL 94V-0
Sleeve:	Brass CuZn 36pb3(36000)
Mating pin \varnothing :	0.45 mm / 0.48 mm
Mechanical life:	min 500 cycles
Rated current:	3 A
Contact resistance:	max 10 m Ω
Dielectric strength:	min 1000V RMS



Ordering information

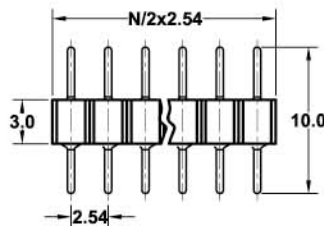
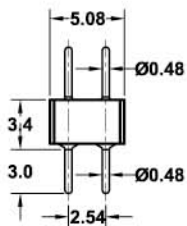
PHA - NNN X - B P 1000A

No. of Positions	Insulator Type code	Pin Plating code
	1 Single row	1 Tin150 μ "
	2 Double row	2 Tin200 μ "
		3 GF
		4 Gold2 μ "
		5 Gold3 μ "
		6 Gold10 μ "
		7 Gold15 μ "
		S Special



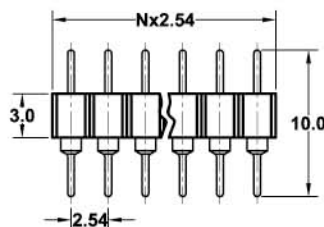
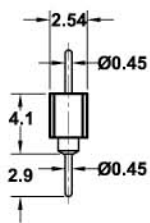
PHA-NNN1-BP 1000A

Straight pin connector ultralow profil height 3.0mm: solder tail, single row
Availability from: 1 to 40 contacts
Standard number of contacts 5, 6, 8, 9, 10, 11, 12, 14, 16, 17, 20, 25, 30, 32 and 40



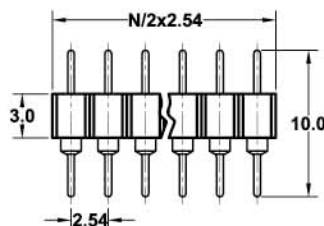
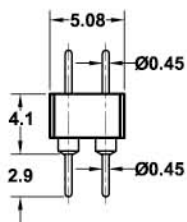
PHA-NNN2-BP 1000A

Straight pin connector ultralow profil height 3.0mm: solder tail, double row
Availability from: 2 to 80 contacts
Standard number of contacts 20, 56, 60 and 72



PHA-NNN1-BP 1000B

Straight pin connector height 4.1mm: solder tail, single row
Availability from: 1 to 40 contacts
Standard number of contacts 5, 6, 8, 9, 10, 11, 12, 14, 16, 17, 20, 25, 30, 32 and 40



PHA-NNN2-BP 1000B

Straight pin connector height 4.1mm: solder tail, double row
Availability from: 2 to 80 contacts
Standard number of contacts 20, 56, 60 and 72

Pin connectors 2.54mm

Connecting Pin Ø0.60mm / Ø0.64mm

Single row/double row

Solder tail

Series: PHA

Pin connectors, Solder tail

Technical Specs:

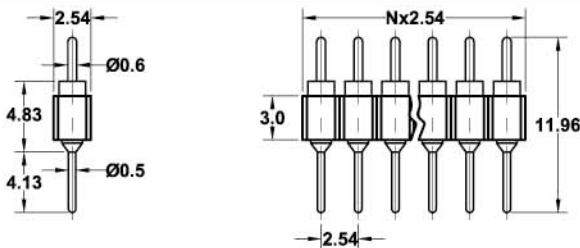
Insulator:	Black glass filled polyester PPS-GF30-FR
Flammability:	UL 94V-O
Sleeve:	Brass CuZn 36pb3(36000)
Mating pin Ø:	0.60 mm / 0.64 mm
Mechanical life:	min 500 cycles
Rated current:	3 A
Contact resistance:	max 10 mΩ
Dielectric strength:	min 1000V RMS



Ordering information

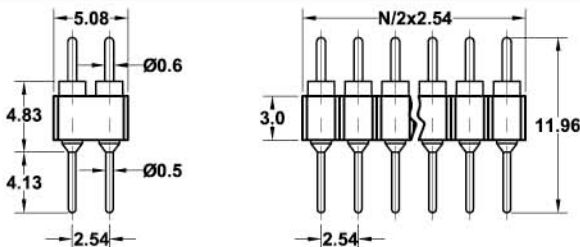
PHA - NNN X - B P 1196A

No. of Positions	Insulator Type code	Pin Plating code
	1 Single row	1 Tin150μ"
	2 Double row	2 Tin200μ"
		3 GF
		4 Gold2μ"
		5 Gold3μ"
		6 Gold10μ"
		7 Gold15μ"
		S Special



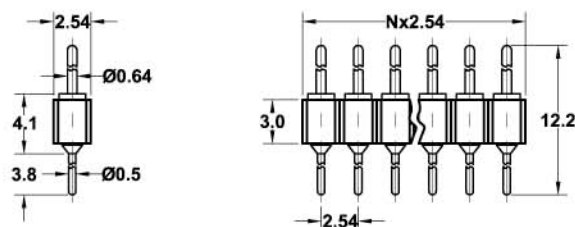
PHA-NNN1-BP1196A

Straight pin connector height 4.83mm:solder tail,single row
Availability from: 1 to 40 contacts
Standard number of contacts 5, 6, 8, 9, 10, 11, 12, 14, 16, 17, 20, 25, 30, 32 and 40



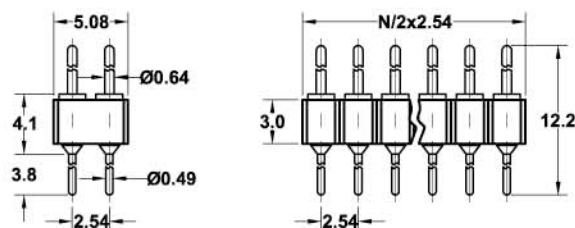
PHA-NNN2-BP1196A

Straight pin connector height 4.83mm:solder tail,double row
Availability from: 2 to 80 contacts
Standard number of contacts 20, 56, 60 and 72



PHA-NNN1-BP1220A

Straight pin connector height 4.1mm:solder tail,single row
Availability from: 1 to 40 contacts
Standard number of contacts 5, 6, 8, 9, 10, 11, 12, 14, 16, 17, 20, 25, 30, 32 and 40



PHA-NNN2-BP1220A

Straight pin connector height 4.1mm:solder tail,double row
Availability from: 2 to 80 contacts
Standard number of contacts 20, 56, 60 and 72

Pin connectors 2.54mm

Connecting Pin Ø0.47mm / Ø0.60mm

Single row/double row

Solder tail

Series: PHA

Pin connectors, Solder tail

Technical Specs:

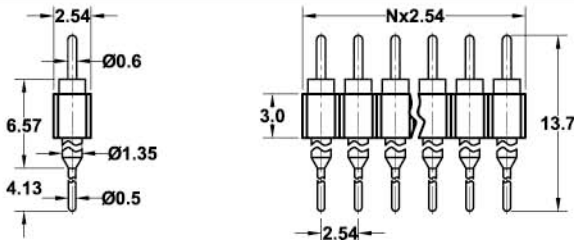
Insulator: Black glass filled polyester PPS-GF30-FR
 Flammability: UL 94V-O
 Sleeve: Brass CuZn 36pb3(36000)
 Mating pin Ø: 0.47 mm / 0.60 mm
 Mechanical life: min 500 cycles
 Rated current: 3 A
 Contact resistance: max 10 mΩ
 Dielectric strength: min 1000V RMS



Ordering information

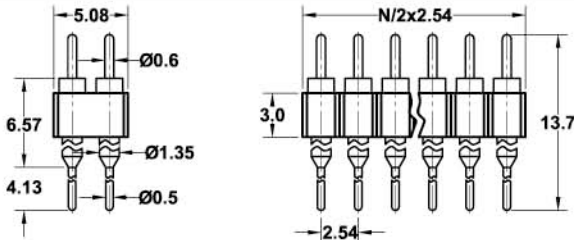
PHA - NNN X - B P 1370A

No. of Positions	Insulator Type code	Pin Plating code
	1 Single row	1 Tin150µ"
	2 Double row	2 Tin200µ"
		3 GF
		4 Gold2µ"
		5 Gold3µ"
		6 Gold10µ"
		7 Gold15µ"
		S Special



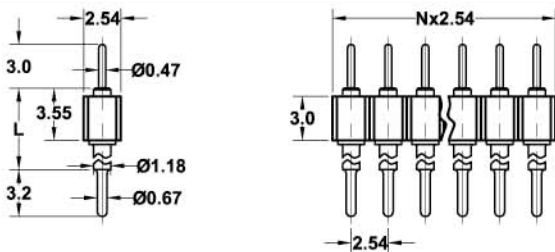
PHA-NNN1-BP1370A

Straight pin connector height 6.57mm:solder tail,single row
 Availability from: 1 to 40 contacts
 Standard number of contacts 5, 6, 8, 9, 10, 11, 12, 14, 16, 17, 20, 25, 30, 32 and 40



PHA-NNN2-BP1370A

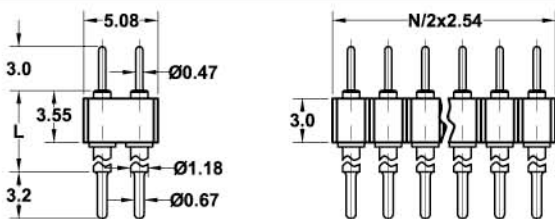
Straight pin connector height 6.57mm:solder tail,double row
 Availability from: 2 to 80 contacts
 Standard number of contacts 20, 56, 60 and 72



PHA-NNN1-BPXXXXA

Straight interconnect pin connector: solder tail,single row
 Availability from: 1 to 40 contacts
 Standard number of contacts 5, 6, 8, 9, 10, 11, 12, 14, 16, 17, 20, 25, 30, 32 and 40

code XXXX	Contact length L
1240	6.2mm
1460	8.4mm
2150	15.3mm
2740	21.2mm
3360	27.4mm



PHA-NNN2-BPXXXXA

Straight interconnect pin connector: solder tail,double row
 Availability from: 2 to 80 contacts
 Standard number of contacts 20, 56, 60 and 72

code XXXX	Contact length L
1240	6.2mm
1460	8.4mm
2150	15.3mm
2740	21.2mm
3360	27.4mm

Dual-in-line pin headers 2.54mm

Open frame

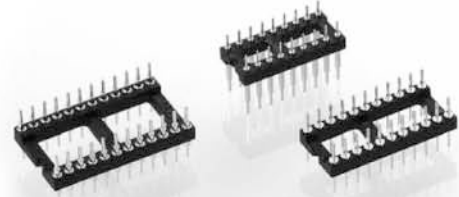
Solder tail

Series: PHA

DIL pin headers with male contacts pluggable into standard female socket contacts

Technical Specs:

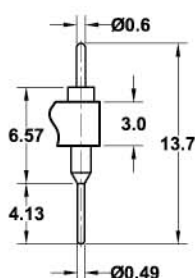
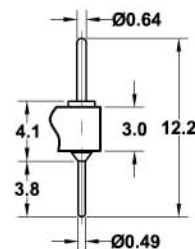
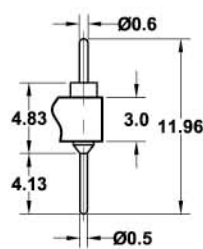
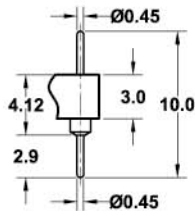
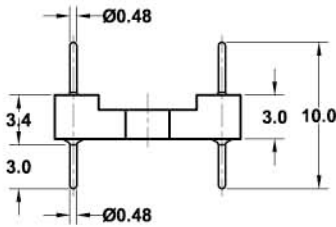
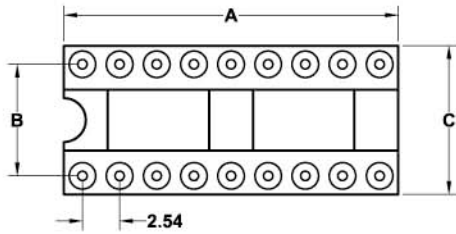
Insulator: Black glass filled polyester PBT-GF30-FR
 Flammability: UL 94V-O
 Sleeve: Brass CuZn 36pb3(36000)
 Mating pin Ø: 0.45 mm / 0.48 mm / 0.60 mm / 0.64 mm
 Mechanical life: min 100 cycles
 Rated current: 1 A
 Contact resistance: max 10 mΩ
 Dielectric strength: min 1000V RMS



Ordering information

PHA - NNN X - B P XXXX A

No. of Positions	Row spacing code	Pin Plating code	Pin Length code
3	7.62mm	1 Tin150µ"	1000=10.00mm
4	10.16mm	2 Tin200µ"	1196=11.96mm
6	15.24mm	3 GF	1220=12.20mm
9	22.86mm	4 Gold2µ"	1370=13.70mm
		5 Gold3µ"	
		6 Gold10µ"	
		7 Gold15µ"	
		S Special	



See page 46	No. of Positions	A	B	C	Order Codes
fig. 1	6	7.6	7.62	10.1	PHA-0063-BPXXXXA
fig. 2	8	10.1	7.62	10.1	PHA-0083-BPXXXXA
fig. 3	10	12.6	7.62	10.1	PHA-0103-BPXXXXA
fig. 4	12	15.2	7.62	10.1	PHA-0123-BPXXXXA
fig. 5	14	17.7	7.62	10.1	PHA-0143-BPXXXXA
fig. 6	16	20.3	7.62	10.1	PHA-0163-BPXXXXA
fig. 7	18	22.8	7.62	10.1	PHA-0183-BPXXXXA
fig. 8	20	25.3	7.62	10.1	PHA-0203-BPXXXXA
fig. 9	22	27.8	7.62	10.1	PHA-0223-BPXXXXA
fig. 10	24	30.4	7.62	10.1	PHA-0243-BPXXXXA
fig. 11	28	35.5	7.62	10.1	PHA-0283-BPXXXXA
fig. 12	20	25.4	10.16	12.6	PHA-0204-BPXXXXA
fig. 13	22	27.8	10.16	12.6	PHA-0224-BPXXXXA
fig. 14	24	30.4	10.16	12.6	PHA-0244-BPXXXXA
fig. 15	28	35.5	10.16	12.6	PHA-0284-BPXXXXA
fig. 16	32	40.6	10.16	12.6	PHA-0324-BPXXXXA
fig. 17	24	30.5	15.24	17.7	PHA-0246-BPXXXXA
fig. 18	28	35.5	15.24	17.7	PHA-0286-BPXXXXA
fig. 19	32	40.6	15.24	17.7	PHA-0326-BPXXXXA
fig. 20	36	45.7	15.24	17.7	PHA-0366-BP1000A
fig. 21	40	50.8	15.24	17.7	PHA-0406-BPXXXXA
fig. 22	42	53.3	15.24	17.7	PHA-0426-BPXXXXA
fig. 23	48	60.9	15.24	17.7	PHA-0486-BPXXXXA
fig. 24	50	63.5	15.24	17.7	PHA-0506-BPXXXXA
fig. 25	52	66.0	15.24	17.7	PHA-0526-BPXXXXA
fig. 26	50	63.5	22.86	25.3	PHA-0509-BPXXXXA
fig. 27	52	66.0	22.86	25.3	PHA-0529-BPXXXXA
fig. 28	64	81.2	22.86	25.3	PHA-0649-BPXXXXA

Dual-in-line pin headers 2.54mm

Open frame

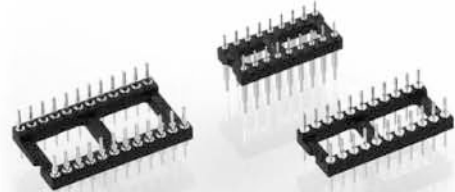
Solder tail

Series: PHA

DIL pin headers with male contacts pluggable into standard female socket contacts

Technical Specs:

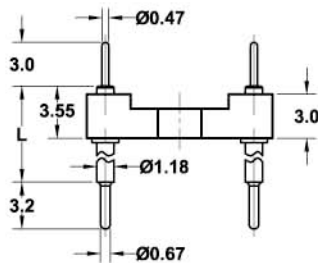
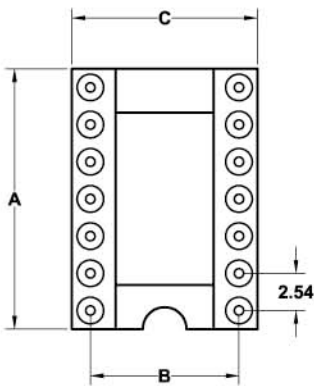
Insulator: Black glass filled polyester PBT-GF30-FR
 Flammability: UL 94V-O
 Sleeve: Brass CuZn 36pb3(36000)
 Mating pin Ø: 0.47 mm
 Mechanical life: min 100 cycles
 Rated current: 1 A
 Contact resistance: max 10 mΩ
 Dielectric strength: min 1000V_{RMS}



Ordering information

PHA - NNN X - B P 1240A

No. of Positions	Row spacing code	Pin Plating code
	3 7.62mm	1 Tin150μ"
	4 10.16mm	2 Tin200μ"
	6 15.24mm	3 GF
	9 22.86mm	4 Gold2μ"
		5 Gold3μ"
		6 Gold10μ"
		7 Gold15μ"
		S Special



code XXXX	Contact length L
1240	6.2mm
1460	8.4mm
2150	15.3mm
2740	21.2mm
3360	27.4mm

See page 46	No. of Positions	A	B	C	Order Codes
fig. 1	6	7.6	7.62	10.1	PHA-0063-BPXXXXA
fig. 2	8	10.1	7.62	10.1	PHA-0083-BPXXXXA
fig. 3	10	12.6	7.62	10.1	PHA-0103-BPXXXXA
fig. 4	12	15.2	7.62	10.1	PHA-0123-BPXXXXA
fig. 5	14	17.7	7.62	10.1	PHA-0143-BPXXXXA
fig. 6	16	20.3	7.62	10.1	PHA-0163-BPXXXXA
fig. 7	18	22.8	7.62	10.1	PHA-0183-BPXXXXA
fig. 8	20	25.3	7.62	10.1	PHA-0203-BPXXXXA
fig. 9	22	27.8	7.62	10.1	PHA-0223-BPXXXXA
fig. 10	24	30.4	7.62	10.1	PHA-0243-BPXXXXA
fig. 11	28	35.5	7.62	10.1	PHA-0283-BPXXXXA
fig. 12	20	25.4	10.16	12.6	PHA-0204-BPXXXXA
fig. 13	22	27.8	10.16	12.6	PHA-0224-BPXXXXA
fig. 14	24	30.4	10.16	12.6	PHA-0244-BPXXXXA
fig. 15	28	35.5	10.16	12.6	PHA-0284-BPXXXXA
fig. 16	32	40.6	10.16	12.6	PHA-0324-BPXXXXA
fig. 17	24	30.5	15.24	17.7	PHA-0246-BPXXXXA
fig. 18	28	35.5	15.24	17.7	PHA-0286-BPXXXXA
fig. 19	32	40.6	15.24	17.7	PHA-0326-BPXXXXA
fig. 20	36	45.7	15.24	17.7	PHA-0366-BPXXXXA
fig. 21	40	50.8	15.24	17.7	PHA-0406-BPXXXXA
fig. 22	42	53.3	15.24	17.7	PHA-0426-BPXXXXA
fig. 23	48	60.9	15.24	17.7	PHA-0486-BPXXXXA
fig. 24	50	63.5	15.24	17.7	PHA-0506-BPXXXXA
fig. 25	52	66.0	15.24	17.7	PHA-0526-BPXXXXA
fig. 26	50	63.5	22.86	25.3	PHA-0509-BPXXXXA
fig. 27	52	66.0	22.86	25.3	PHA-0529-BPXXXXA
fig. 28	64	81.2	22.86	25.3	PHA-0649-BPXXXXA