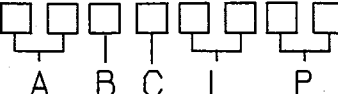
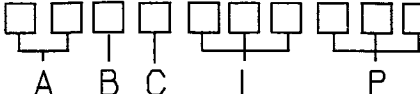


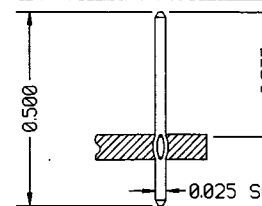
PIN LENGTH TO .990 (TYPE A)

8- 

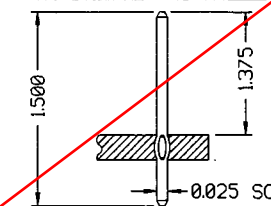
PIN LENGTH OVER 1.000 (TYPE B)

8- 

EXAMPLE: 8-252F5038



EXAMPLE: 8-252F150138



A WIRE SIZE	1 2	0.012	2 8	0.028	4 5	0.045
	1 8	0.018	3 1	0.031	5 0	0.050
	2 0	0.020	3 6	0.036	6 2	0.062
	2 5	0.025	4 0	0.040		
ROUND OR SQUARE						

OBSOLETE**B WIRE FEATURE**

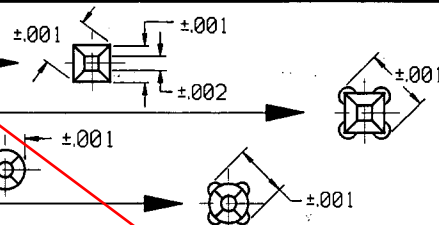
1 SQUARE PIN NOTCHED

2 SQUARE PIN NOTCHED WITH STAR

3 SQUARE PIN NOTCHED WITH LARGE STAR

4 ROUND PIN NOTCHED

5 ROUND PIN NOTCHED WITH STAR

**C MATERIAL & FINISH**

PHOSPHOR BRONZE (CDA-510 ALLOY GRADE A, 3/4 H)

BRASS (CDA-260 ALLOY, 3/4 H)

UNDER PLATING IS .00005" NICKEL UNLESS OTHERWISE SPECIFIED.

PHOSPHOR BRONZE

F .00012" (.3μ) TIN/LEAD (90/10)

G GOLD PLATE .000005" (.13μ)

H GOLD PLATE .00001" (.25μ)

J GOLD PLATE .00002" (.5μ)

K GOLD PLATE .00003" (.76μ)

Y GOLD PLATE .000015" (.38μ)

P WITHOUT FINISH

R SPECIAL FINISH

CUPRO NICKEL

Q CDA-725 ALLOY

T GOLD PLATE .00008" (.20μ) OVER .00003" (.76μ) NICKEL

BRASS

A .00012" (.3μ) min. TIN/LEAD (90/10)

B GOLD PLATE .000005" (.13μ)

C GOLD PLATE .00001" (.25μ)

D GOLD PLATE .00002" (.5μ)

E GOLD PLATE .00003" (.76μ)

W GOLD PLATE .000015" (.38μ)

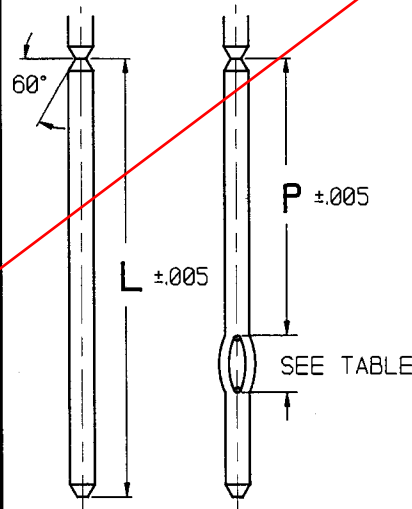
V GOLD PLATE .000015" (.38μ)

OVER .00003" (.76μ) NICKEL

N SPECIAL FINISH

M WITHOUT FINISH

X NONE OF THE ABOVE

PIN LENGTH**TYPE 'A'**SPECIFY IN x 0.1 INCREMENTS
USE 2 DIGITS IF LESS THAN 1.000"**TYPE 'B'**SPECIFY IN x 0.1 INCREMENTS
USE 3 DIGITS IF MORE THAN 1.000"

PART No.	PIN TYPE 'A'	NOTCH SIZE	DIAGONAL SIZE	STANDARD STAR LENGTHS	MOUNTING HOLE SIZE
8-121	0.012" SQ.	0.006"	0.015	N/A	0.014/0.015
8-122	0.012" SQ.	0.008"	0.0205/0.0195	0.060"	0.017/0.018
8-181	0.018" SQ.	0.008"	0.024	N/A	0.021/0.023
8-182	0.018" RD.	0.011"	0.031/0.029	0.060"	0.025/0.027
8-201	0.020" SQ.	0.010"	0.027	N/A	0.024/0.026
8-202	0.020" SQ.	0.010"	0.034/0.032	0.040"	0.028/0.030
8-204	0.020" RD.	0.010"	N/A	N/A	N/A
8-205	0.020" RD.	0.010"	0.027/0.025	0.040"	0.021/0.023
8-251	0.025" SQ.	0.013"	0.033	N/A	0.027/0.030
8-252	0.025" SQ.	0.013"	0.039/0.037	0.060"	0.031/0.034
8-253	0.025" SQ.	0.013"	0.044/0.041	0.060"	0.035/0.039
8-254	0.025" RD.	0.013"	N/A	N/A	N/A
8-255	0.025" RD.	0.013"	0.033/0.031	0.060"	0.025/0.029
8-281	0.028" SQ.	0.014"	0.037	N/A	0.030/0.034
8-282	0.028" SQ.	0.014"	0.048/0.045	0.060"	0.039/0.044
8-311	0.031" SQ.	0.016"	0.042	N/A	0.034/0.038
8-312	0.031" SQ.	0.016"	0.054/0.051	0.060"	0.045/0.049
8-314	0.031" RD.	0.016"	N/A	N/A	N/A
8-315	0.031" RD.	0.016"	0.043/0.040	0.060"	0.034/0.038
8-361	0.036" SQ.	0.022"	0.049	N/A	0.041/0.045
8-362	0.036" SQ.	0.022"	0.062/0.059	0.060"	0.053/0.057
8-401	0.040" SQ.	0.024"	0.054	N/A	0.046/0.050
8-402	0.040" SQ.	0.024"	0.070/0.067	0.060"	0.060/0.064
8-404	0.040" RD.	0.024"	N/A	N/A	N/A
8-405	0.040" RD.	0.024"	0.053/0.051	0.060"	0.044/0.048
8-451	0.045" SQ.	0.026"	0.061	N/A	0.054/0.058
8-452	0.045" SQ.	0.026"	0.078/0.075	0.060"	0.068/0.072
8-504	0.050" RD.	0.030"	N/A	N/A	N/A
8-505	0.050" RD.	0.030"	0.066/0.063	0.060"	0.057/0.061
8-624	0.062" RD.	0.034"	N/A	N/A	N/A
8-625	0.062" RD.	0.034"	0.078/0.075	0.060"	0.068/0.072

4. 19.04.94 2894

3. 20.4.94 2602

2. 17.7.92 2044

1. 2.6.87 REDRAWN

ISS. DATE C/N

DRAWN: J.PETERS.

CHECKED: *PL*APPD.: *PL*

CUSTOMER REF.

ASSEMBLY DRG.

HARWIN

HARWIN PLC
U.K.
TEL: (0705) 370451
FAX: (0705) 324010

HARWIN INC
U.S.A.
TEL: (812) 285-0055
FAX: (812) 285-0056

HARWIN PTE
SINGAPORE
TEL: 7794909
FAX: 7793868

TOLERANCES
X: ±1mm
X.X: ±0.25mm
X.XX: ±0.10mm
X.XXX: ±0.01mm
ANGLES: ±1°

IF IN DOUBT - ASK

MATERIAL:

SEE ABOVE

FINISH: SEE ABOVE

S/AREA:

mm²

TITLE:
AUTOPIN SERIES 2
THE ABCs OF CHOOSING A PIN

DRAWING NUMBER:

8-XXXXXXX

SHT.
1
OF

PIN LENGTH 8-
TO .990"
TYPE Wire Size

A B C L P

PIN LENGTH
OVER 1.000"
(TYPE B)

A B C L P

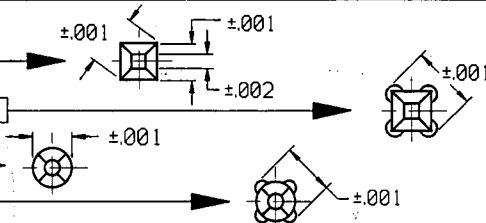
EXAMPLE: 8-252F5038

EXAMPLE: 8-252F150138

A WIRE SIZE	1 2 0.012	2 8 0.028	4 5 0.045
ROUND	1 8 0.018	3 1 0.031	5 0 0.050
OR	2 0 0.020	3 6 0.036	6 2 0.062
SQUARE	2 5 0.025	4 0 0.040	

B Wire Feature

- 1 SQUARE PIN NOTCHED
2 SQUARE PIN NOTCHED WITH STAR
3 SQUARE PIN NOTCHED WITH LARGE STAR
4 ROUND PIN NOTCHED
5 ROUND PIN NOTCHED WITH STAR



C Material & Finish

PHOSPHOR BRONZE (CDA-510 ALLOY GRADE A, 3/4 H)
BRASS (CDA-260 ALLOY, 3/4 H)
UNDER PLATING IS .00005" NICKEL UNLESS OTHERWISE SPECIFIED.

PHOSPHOR BRONZE

- ☐ .00012" (3μ) TIN/LEAD (90/10)
☐ GOLD PLATE .000005" (.13μ)
☐ GOLD PLATE .00001" (.25μ)
☐ GOLD PLATE .00002" (.5μ)
☐ GOLD PLATE .00003" (.76μ)
☐ GOLD PLATE .000015" (.38μ)

☐ WITHOUT FINISH

☐ SPECIAL FINISH

CUPRO NICKEL

☐ CDA-725 ALLOY

☐ GOLD PLATE .00008" (2.0μ) OVER .00003" (.76μ) NICKEL

BRASS

- ☐ .00012" (3μ) min. TIN/LEAD (90/10)
☐ GOLD PLATE .000005" (.13μ)
☐ GOLD PLATE .00001" (.25μ)
☐ GOLD PLATE .00002" (.5μ)
☐ GOLD PLATE .00003" (.76μ)
☐ GOLD PLATE .000015" (.38μ)
☐ GOLD PLATE .000015" (.38μ)
OVER .00003" (.76μ) NICKEL

☐ SPECIAL FINISH

☐ WITHOUT FINISH

☐ NONE OF THE ABOVE

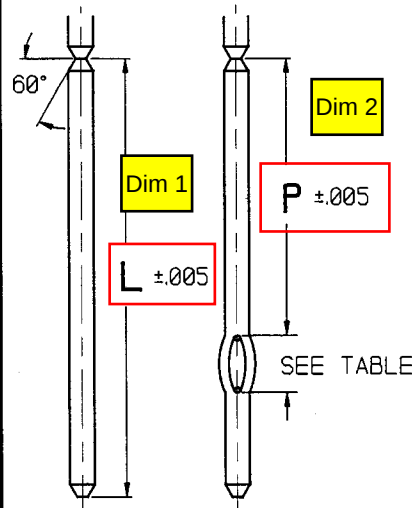
PIN LENGTH

TYPE 'A'

SPECIFY IN x 0.1 INCREMENTS
USE 2 DIGITS IF LESS THAN 1.000"

TYPE 'B'

SPECIFY IN x 0.1 INCREMENTS
USE 3 DIGITS IF MORE THAN 1.000"



PART No.	PIN TYPE 'A'	NOTCH SIZE	DIAGONAL SIZE	STANDARD STAR LENGTHS	MOUNTING HOLE SIZE
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8-204	0.020" RD.	0.010"	N/A	N/A	N/A
8-205	0.020" RD.	0.010"	0.027/0.025	0.040"	0.021/0.023
8-251	0.025" SQ.	0.013"	0.033	N/A	0.027/0.030
8-252	0.025" SQ.	0.013"	0.039/0.037	0.060"	0.031/0.034
8-253	0.025" SQ.	0.013"	0.044/0.041	0.060"	0.035/0.039
8-254	0.025" RD.	0.013"	N/A	N/A	N/A
8-255	0.025" RD.	0.013"	0.033/0.031	0.060"	0.025/0.029
8-281	0.028" SQ.	0.014"	0.037	N/A	0.030/0.032
8-282	0.028" SQ.	0.014"	0.048/0.045	0.060"	0.039/0.042
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8-314	0.031" RD.	0.016"	N/A	N/A	N/A
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8-404	0.040" RD.	0.024"	N/A	N/A	N/A
8-405	0.040" RD.	0.024"	0.053/0.051	0.060"	0.044/0.046
8-451	0.045" SQ.	0.026"	0.061	N/A	0.054/0.056
8-452	0.045" SQ.	0.026"	0.078/0.075	0.060"	0.068/0.071
8-504	0.050" RD.	0.030"	N/A	N/A	N/A
8-505	0.050" RD.	0.030"	0.066/0.063	0.060"	0.057/0.059
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INDICATION PURPOSE

SPC

HARWIN

HARWIN PLC
U.K.
TEL: (0705) 370451
FAX: (0705) 324010

HARWIN INC
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TEL: (812) 285-0055
FAX: (812) 285-0056

HARWIN PTE
SINGAPORE
TEL: 7794909
FAX: 7793868

TOLERANCES
X: ±.1mm
X.X: ±0.25mm
X.XX: ±0.10mm
X.XXX: ±0.01mm
ANGLES: ±1°

MATERIAL:

SEE ABOVE

FINISH: SEE ABOVE

S/AREA:

mm²

TITLE:
AUTOPIN SERIES 2
THE ABCs OF CHOOSING A PIN

DRAWING NUMBER:

8-XXXXXXX

SHT.
1 OF 1