

What is Interleaved 2 of 5?

Interleaved 2 of 5 consists of 99 characters for numeric data only. Interleaved 2 of 5 also has an optional check digit.

How do I encode Interleaved 2 of 5?

Example data 1234567890

Please note the data must be an even set of numbers, if not add an extra **0** to the start of your data.

Next the data is paired in to two set's of numbers. eg. **12 34 56 78 99**

This gives us a new set of numbers, each number refers to a table, list below. The numbers indicate the character which must be used, or simply add **33** to the paired number value to give the final ASCII font position.

If any paired value is **94** or over then you must add **67** instead of **33**.

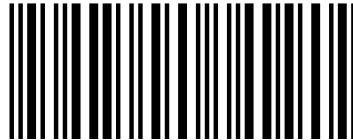
Data Encoding

Values are obtained from the Interleaved 2 of 5 encoding table on the next page.

Paired Data	12	34	56	78	90
Interleaved 25 Value	45	67	89	111	123
ASCII Character	-	C	Y	o	{

Compiling the Interleaved 2 of 5 and Barcode Font Sample.

Start Character 170
 Data -CYo{
 Stop Character 171



Why do I need a check digit?

A check digit is often used to provide a mathematical check to ensure the accuracy of the data you are encoding.

How do I encode Interleaved 2 of 5 with a check digit?

Example data 1234567890

Starting from left to right, assign an alternate 3,1,3,1.. Multiply the data and add the results to give you sum.

Check Digit Encoding Table

Data	1	2	3	4	5	6	7	8	9	0
Multiply	3	1	3	1	3	1	3	1	3	1
Total	3	2	9	4	15	6	21	8	27	0

Total 95.

The Modula 10 from the total is 5, so the check digit is 5.

The calculated check digit is then added to the end of our data. Now we have to encode the data as shown above.

Example data 012345678905

Note that a Zero has been added to the start of the data, this is because Interleaved 2 of 5 requires an even number of digits.

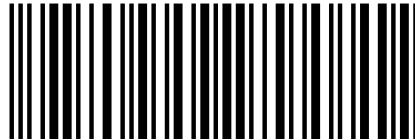
Data Encoding

Values are obtained from the Interleaved 2 of 5 encoding table on the next page.

Paired Data	01	23	45	67	89	05
Interleaved 25 Value	34	56	78	100	122	38
ASCII Character	"	8	N	d	z	&

Compiling the Interleaved 2 of 5 with check digit and Barcode Font Sample.

Start Character 170
 Data "8Ndz&
 Stop Character 171



Interleaved 2 of 5 Encoding Table?

Character	Hex Position	Decimal Position
Start Code	AA	170
Stop Code	AB	171
00	21	33
01	22	34
02	23	35
03	24	36
04	25	37
05	26	38
06	27	39
07	28	40
08	29	41
09	2A	42
10	2B	43
11	2C	44
12	2D	45
13	2E	46
14	2F	47
15	30	48
16	31	49
17	32	50
18	33	51
19	34	52
20	35	53
21	36	54
22	37	55
23	38	56
24	39	57
25	3A	58
26	3B	59
27	3C	60
28	3D	61
29	3E	62
30	3F	63
31	40	64
32	41	65
33	42	66
34	43	67
35	44	68
36	45	69
37	46	70
38	47	71
39	48	72
40	49	73
41	4A	74
42	4B	75
43	4C	76
44	4D	77
45	4E	78
46	4F	79
47	50	80
48	51	81
49	52	82
50	53	83

Character	Hex Position	Decimal Position
51	54	84
52	55	85
53	56	86
54	57	87
55	58	88
56	59	89
57	5A	90
58	5B	91
59	5C	92
60	5D	93
61	5E	94
62	5F	95
63	60	96
64	61	97
65	62	98
66	63	99
67	64	100
68	65	101
69	66	102
70	67	103
71	68	104
72	69	105
73	6A	106
74	6B	107
75	6C	108
76	6D	109
77	6E	110
78	6F	111
79	70	112
80	71	113
81	72	114
82	73	115
83	74	116
84	75	117
85	76	118
86	77	119
87	78	120
88	79	121
89	7A	122
90	7B	123
91	7C	124
92	7D	125
93	7E	126
94	A1	161
95	A2	162
96	A3	163
97	A4	164
98	A5	165
99	A6	166