

## Fontware Barcode Solutions - Code 3 of 9

### What is it?

Code 3 of 9 can use alphanumeric data and is very easy to use.

### How do I format the Barcode?

This is very easy indeed, the data you encode is the data which is configured for the final data code. For example if we use the following data for our example. **12345ABCDE/**

The start and stop character is the asterisk symbol (ASCII 42)

The final code is printed as **\*12345ABCDE/\***

### Can I have a check digit with 3 of 9?

Yes you can, the check digit is the modulus 43 sum of all the character values in a given message, and is printed as the last character of the readable information on a barcode.

Our data : **123456ABCDE/**

Sum of ASCII Values (taken from table below) = 1+2+3+4+5+10+11+12+13+14+40 = 115

115 / 43 = 2 Remainder 29

The check digit is the character corresponding to the value of the remainder, which in the example above is 29 or 'T' (as referred to below).

**Final Print** \*12345ABCDE/T\*

### Code 3 of 9 Character Table

ASCII	CODE39	ASCII	CODE 39	ASCII	CODE 39	ASCII	CODE 39
NUL	%U	SP	Comma	@	%V		%W
SOH	\$A	!	/A	A	A	a	+A
STX	\$B	"	/B	B	B	b	+B
ETX	\$C	#	/C	C	C	c	+C
EOT	\$D	\$	/D	D	D	d	+D
ENQ	\$E	%	/E	E	E	e	+E
ACK	\$F	&	/F	F	F	f	+F
BEL	\$G	!	/G	G	G	g	+G
BS	\$H	(	/H	H	H	h	+H
HT	\$I	)	/I	I	I	i	+I
LF	\$J	*	/J	J	J	j	+J
VT	\$K	+	/K	K	K	k	+K
FF	\$L	,	/L	L	L	l	+L
CR	\$M	-	-	M	M	m	+M
SO	\$N	.	.	N	N	n	+N
SI	\$O	/	/O	O	O	o	+O
DLE	\$P	0	0	P	P	p	+P
DC1	\$Q	1	1	Q	Q	q	+Q
DC2	\$R	2	2	R	R	r	+R
DC3	\$S	3	3	S	S	s	+S
DC4	\$T	4	4	T	T	t	+T
NAK	\$U	5	5	U	U	u	+U
SYN	\$V	6	6	V	V	v	+V
ETB	\$W	7	7	W	W	w	+W
CAN	\$X	8	8	X	X	x	+X
EM	\$Y	9	9	Y	Y	y	+Y
SUB	\$Z	:	/Z	Z	Z	z	+Z
ESC	%A	:	%F	[	%K	{	%P
FS	%B	<	%G	\	%L		%Q
GS	%C	=	%H	]	%M	}	%R
RS	%D	>	\$I	↑	%N	~	%S
US	%E	?	%J	-	%O	DEL	%T,%X %Y,%Z