














## Barcode Comparison Chart

	Barcode	Character Set	Length	Checksum	Applications/ Comments
<b>Codabar</b>	 1234567	Numbers: 0-9; Symbols: - . \$ / + Start/Stop Character s: A, B, C, D, E, *, N, or T	Variable	None	Older code; often used in libraries and blood banks. See also USD-4, NW-7, 2of7
<b>Code 11</b>	 123456789	Numbers Only	Variable	Required	Recommend 2nd check digit
<b>Code 128</b>	 Abc123	All ASCII characters and control codes	Variable	Required	Widely used; excellent for many applications
<b>Code 39</b>	 ABC123	Uppercase letters A-Z; Numbers 0-9; Space - . \$ / + %	Variable	Optional	In very wide use for many types of applications
<b>Extended Code 39</b>	 ABC123	All ASCII characters and control codes	Variable	Optional	Uses pairs of characters to encode non-standard symbols; wasteful of space
<b>Code 93</b>	 ABC123	Uppercase letters A-Z; Numbers 0-9; Space - . \$ / + %	Variable	Optional	A more compact cousin of Code 39, not as widely in use
<b>EAN-13</b>	 9 780978 945619	Numbers Only	13 + check digit +2 optional +5 optional	Required	Retail product marking world-wide

Interleaved 2 of 5		Numbers Only	Variable	Optional	Very compact encodes digits in pairs so total length must be even number of digits
UCC/EAN-128		All ASCII characters and control codes	Variable	Required	Special use of Code 128 which defines data formats for commerce
UPC-A		Numbers Only	11 + check digit +2 optional +5 optional	Required	
UPC-E1					The UPC-E1 is a variation of UPC-E code with the number system set to "1".
Upc-A w/ 2-Digit Supplement					2-digit supplemental bar codes should only be used with magazines, newspapers and other such periodicals. The 2-digit supplement represent the issue number of the magazine
UPC-A w/ 5-Digit Supplement					5-digit supplemental bar codes are used on books to indicate a suggested retail price.
UPC-E		Numbers Only	7 + check digit	Required	Retail product in USA and Canada; compressed code for products with limited label space