













A barcode is “A machine-readable code in the form of numbers and a pattern of parallel lines of varying widths, printed on and identifying a product.”

BARCODE	TYPE	CHARACTER SET	LENGTH	CHECKSUM	APPLICATION
 123ABC CODE 128	Linear	All ACSII characters and control codes	Variable	Required	Widely used. Excellent for many applications. Used in preference to Code 39 because it is more compact
 123ABC CODE 39	Linear	Uppercase letters A-Z Numbers 0-9 Space -.\$/+%	Variable	Optional	Widely used. Excellent for many applications. Identification, inventory and tracking shipments
 123abc CODE 39 Extended	Linear	All ACSII characters and control codes	Variable	Optional	Uses character pairs to encode non standard symbols. Uses up space
 123ABC CODE 93	Linear	Uppercase letters A-Z Numbers 0-9 Space -.\$/+%	Variable	Optional	A more compact version of Code 39. Not as widely used
 0067806789 INTERLEAVED 2 of 5	Linear	Numbers only	Variable	Optional	Very compact. Encodes in pairs - even numbers of digits. Used in the shipping and warehouse industries
 123456 INDUSTRIAL (STANDARD) 2 of 5	Linear	Numbers only	Variable	Non	Older type of code
 131313131311 ITF-14	Linear	Numbers only	13+ check digit	Required	Version of interleaved 2 of 5 to mark shipping cartons containing UPC encoded products
 6 14141 99999 6 UPC-A	Linear	Numbers only	11+ check digit +2 optional +5 optional	Required	Retail products in USA and Canada
 0 402931 1 UPC-E	Linear	Numbers only	7+ check digit	Required	
 2 112345 678917 EAN-13	Linear	Numbers only	13+ check digit +2 optional +5 optional	Required	Retail products world wide



EAN-8



OPC



UCC/EAN - 128



Plessey



CODE 11



Codabar



PDF-417



Composite Code



UPC-E






QR Code



DataMatrix

Linear	Numbers only		Required	Retail products world wide. Compact for products with limited label space
Linear	Numbers only	9+ check digit	Required	Version of Interleaved 2 or 5 to mark optical products
Linear	All ACSII characters and control codes	Variable	Required	Version of Code 128 defining data formats for commerce
Linear	Numbers only	Variable	Required	Supermarket shelf tags
Linear	Numbers only	Variable	Required	Used in telecommunications. Can include 2nd check digit
Linear	Numbers 0-9 Symbols - . : \$ / + Start/Stop characters A, B, C, D, E, *, N or T	Variable	Non	Older type of code. Used in libraries and blood banks
2D	All ACSII characters	Variable	Required	Error correction up to 850 ASCII or 2725 numeric digits
2D	All ACSII characters	Variable Min 12 Max 3832	Required	Contains PDF-14 stacked onto a Code 128. Used in UCC/EAN standards
2D	All ACSII; FNC1 and ESI control codes	Variable	Required	Error correction Min 15 x 15 square Max 151 x 151
2D	All ACSII characters	Variable	Required	Error correction up to 1520 ASCII or 2509 characters
Linear	All ACSII characters	Variable	Required	Error correction up to 2335 ASCII characters



 21234569 EAN-8	2D	All ACSII characters	93	Required	Includes error correction. Tracks package shipments
 12345-1234-9 OPC	2D	All ACSII characters	9-27 characters	Required	Mark GB item labels or Post Office* receipts
 (01) 0 0000123 00001 7 UCC/EAN - 128	2D	Numbers only	4	Required	Includes error correction

NON-SCANNABLE COLOUR COMBINATIONS

SCANNABLE COLOUR COMBINATIONS



Minumum Label Sizes for Barcodes

Code 39 - 6 digit code - label size 30mm x 15mm



Code 128 - 6 digit code - label size 25mm x 15mm



QR Code - 6 digit code - label size 25mm x 16mm



Datamatrix Code - 6 digit code - label size 25mm x 14mm



No Logo - QR Code - 6 digit code - label size 15mm x 15mm

