

## Magnetic Ink Character Recognition CMC7 Fonts

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ConnectCode MICR CMC7

[http://www.barcoderesource.com/micr\\_cmc7\\_font.shtml](http://www.barcoderesource.com/micr_cmc7_font.shtml)

# Table of Contents

<b>1.</b>	<b>What is MICR?</b> .....	<b>1-1</b>
1.1	Magnetic Ink Character Recognition (MICR) .....	1-1
1.2	ConnectCode MICR CMC7 Fonts package .....	1-1
1.2.1	Font Information .....	1-1
1.2.2	Font Characters .....	1-2
1.2.3	Security Fonts .....	1-3

# 1. What is MICR?

## 1.1 Magnetic Ink Character Recognition (MICR)

MICR is a character recognition system that is widely used in the banking industry for check processing. It involves using a stylized font and magnetic ink to print characters in a document. When this document needs to be decoded, it passes through a special machine or equipment, which magnetizes the ink and then translates the magnetic information into characters. If required, the same information in the document can also be read optically through OCR. Over the years, MICR has been proven to be a secure and high performance mechanism for processing information.

The numbers commonly found at the bottom of a check comprising of the check number, sort number and account number, are usually printed in magnetic ink for use in MICR.

## 1.2 ConnectCode MICR CMC7 Fonts package

ConnectCode CMC7 is a Magnetic Ink Character Recognition font based on the **CMC7 (ISO 1004)** industry standard. This is a widely accepted standard throughout Europe, South America and many other countries. This character set comprises of ten numbers (0..9), five special symbols and twenty-six letters.

### 1.2.1 Font Information

ConnectCode MICR CMC7 fonts support all the four heights specified in the ISO 1004 specification. The following table shows the different fonts and the dimensions supported.

Font File Name	Font Name	Height (MM)	Height (Inches)	Font Size
ConnectCodeCMC7I.ttf	CCodeCMC7IT	3.20	0.126	12 Points
ConnectCodeCMC7II.ttf	CCodeCMC7IIT	3.00	0.1181	12 Points
ConnectCodeCMC7III.ttf	CCodeCMC7IIIT	2.85	0.1122	12 Points
ConnectCodeCMC7IV.ttf	CCodeCMC7IVT	2.70	0.1063	12 Points

The default font ConnectCodeCMC7 is exactly the same as ConnectCodeCMC7I as shown in the table above. For users without any prior knowledge of MICR, the default font is what we recommend to get started with.

<b>Font File Name (True Type)</b>	ConnectCodeCMC7.ttf
<b>Font Name</b>	CCodeCMC7
<b>Font Size</b>	12 Points (Fixed)

*Note :*

*The fonts in the trial are named CCodeCMC7T instead of CCodeCMC7, and the characters 2 and 7 have the equal sign (=) added before them.*

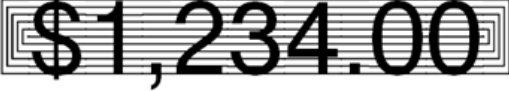

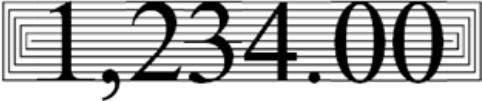

### 1.2.2 Font Characters

The following table contains the character mappings of the CMC7 font. The mappings apply to all the CMC7 fonts bundled in ConnectCode MICR CMC7 package.

Font Character	Represented Character	Font Character	Represented Character
0	0	L	l
1	1	M	m
2	2	N	n
3	3	O	o
4	4	P	p
5	5	Q	q
6	6	R	r
7	7	S	s
8	8	T	t
9	9	U	u
A	A	V	v
B	B	W	w
C	C	X	x
D	D	Y	y
E	E	Z	z
F	F	a	a
G	G	b	b
H	H	c	c
I	I	d	d
J	J	e	e
K	K		

### 1.2.3 Security Fonts

ConnectCode MICR CMC7 package provides additional value by including 4 professional security fonts (in the SecurityFonts subdirectory) to print payee names and check amounts securely. Users can choose from the standard form or a form with text printed below each character. The Security Fonts help prevent alteration and forgery.

Standard	With Text
	
	

Check amounts can be specified in Dollars, Pounds Sterling, Euros or Yen. Payee names in both upper and lower case characters are also supported.