




PrintShop Mail Barcode Guide

PrintShop Mail (PSM) provides the following barcode font libraries: **Codabar**, **Code 39**, **Code 128**, **EAN 8 & 13**, **Interleaved 2 of 5**, **Postnet** and **UPCA & UPCE**. These libraries are located on the PSM CD in the 'Miscellaneous' folder. PSM's Expression Builder functions will calculate checksums and add start-and-stop characters where necessary. After creating a variable that contains the value of the barcode, apply the correct font to that variable to create a barcode.

The description of the font name (C39HrP24DmTt):

1. **Hr** = Human Readable characters (alpha-numeric). These characters are printed below the bar code.
2. **P** = Point size. The Point size refers only to the height of the font. For example if you see C39HrP24DmTt, the P used here refers to the point size of 24.
3. **Dh, Dm** and **DI** = Density (high, medium and low). The density of a barcode is the number of characters per inch (cpi) of the printed code.
Test print these densities & select the density which works best with your printer.



*Atlas advises when using PSM barcode fonts to turn off the following text modifying effects: bold, italics, shadowing, kerning, tracking and character width adjustment.

Codabar	<p>Font Name PSMCBarHrP PSMCBarP</p> <p>Character Set Digits 0-9 & " - \$: / . +" & 4 start/stop characters: ABCD</p>	<p>Expression Formula: Codabar(exprC, start_char, stop_char, check_digit) exprC= Numeric character string any length (no alpha characters) Start character (ABCD, must be in CAPS) Stop character (can be same as Start character) Check digit (True = add check digit / False = do not add check digit)</p> <p>Max Characters in field 60</p> <p>Check Digit Modulus 16</p>	<p>Sample Expression Formula Codabar("123456","A","B",True)</p> <p>Resulting Barcode</p> 
Code 39	<p>Font Name PSMC39HrP PSMC39P</p> <p>Character Set Digits 0-9, " space - + . \$ / %" Letters A-Z</p>	<p>Expression Formula: CODE39(exprC) exprC= Character string any length <i>"*" start and stop character added to both sides of string</i></p> <p>Max Characters in field 60</p>	<p>Sample Expression Formula CODE39("123456789")</p> <p>Resulting Barcode</p> 
Code 128	<p>Font Name PSMC128Bwr PSMC128</p> <p>Character Set All ASCII 128 character set</p>	<p>Expression Formula: CODE128(exprC) exprC= Character string any length <i>No human readable version.</i></p> <p>Max Characters in field 60</p> <p>Check Digit Modulus Mod 103</p>	<p>Sample Expression Formula CODE128("123456")</p> <p>Resulting Barcode</p> 



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EAN 8 & 13	<p>Font Name PSMEan</p> <p>EAN13("987123456789")</p> <p>Character Set Digits 0-9 (no alpha characters)</p>	<p>Expression Formula: EAN8(exprC) & EAN13(exprC) EAN8 -exprC= 7 digit number string EAN13 -exprC=12 digit number string <i>8th & 13th digit added by PSM as a check number</i></p> <p>Max Characters in field 60</p> <p>Check Digit Modulus Mod 10</p>	<p>Sample Expression Formula EAN8("1234567")</p> <p>Resulting Barcode</p> 
Interleaved 2 of 5	<p>Font Name PSMIntHr PSMIntP</p> <p>Character Set Digits 0-9 Even sets only. ie 01,42,77</p>	<p>Expression Formula: ITF(exprC, check_digit) exprC= Numeric character string any length (no alpha characters) Sets in pairs only. ie. 01, 47, 99. One digit group add "0" to left of digit. check_digit= "True" equals add check digit & "False" equals no check digit</p> <p>Max Characters in field 60</p>	<p>Sample Expression Formula ITF("1234567890",True)</p> <p>Resulting Barcode</p> 
Postnet	<p>Font Name PSMPostnetCond PSMPostNetHr PSMPostNet</p> <p>Character Set Digits 0-9 (no alpha characters)</p>	<p>Expression Formula: Postnet(exprC) exprC= 5, 9 or 11 digit number string <i>Note: Presorted Delivery Point Barcode must use 11 digit number string</i></p> <p>Max Characters in field 11</p> <p>Check Digit Modulus Mod 10</p>	<p>Sample Expression Formula POSTNET("915051234239")</p> <p>Resulting Barcode</p> 
UPCA & UPCE	<p>Font Name PSMUpcBwr PSMUpc</p> <p>Character Set Digits 0-9 (no alpha characters)</p>	<p>Expression Formula: UPCA(exprC, sys_nr) & UPCE(exprC) UPCA - exprC= 10 digit number string & sys_nr=1 digit number <i>UPCA- 12th digit added by PSM as a check number</i> UPCE - exprC=6 digit number string</p> <p>Max Characters in field 60</p> <p>Check Digit Modulus Mod 10</p>	<p>Sample Expression Formula UPCA("1234567891,2") UPCE("123456")</p> <p>Resulting Barcode</p> 