Morse Code Characters

- A dash is equal to three dots
- The space between two letters is equal to three dots
- The space between elements of the same letter is equal to one dot.
- The space between two words is equal to seven dots

Standard letters

A	▪ ▬	N	▬ ▪
B	▬ ▪ ▪ ▪	O	▬ ▬ ▬
C	▬ ▪ ▬ ▪	P	▪ ▬ ▬ ▪
D	▬ ▪ ▪	Q	▬ ▬ ▪ ▬
E	▪	R	▪ ▬ ▪
F	▪ ▪ ▬ ▪	S	▪ ▪ ▪
G	▬ ▬ ▪	T	▬
H	▪ ▪ ▪ ▪	U	▪ ▪ ▬
I	▪ ▪	V	▪ ▪ ▪ ▬
J	▪ ▬ ▬ ▬	W	▪ ▬ ▬
K	▬ ▪ ▬	X	▬ ▪ ▪ ▬
L	▪ ▬ ▪ ▪	Y	▬ ▪ ▬ ▬
M	▬ ▬	Z	▬ ▬ ▪ ▪

Accented letters

À or Å	▪ ▬ ▬ ▪ ▬
Ä	▪ ▬ ▪ ▬
É	▪ ▪ ▬ ▪ ▪
Ñ	▬ ▬ ▪ ▬ ▬
Ö	▬ ▬ ▬ ▪
Ü	▪ ▪ ▬ ▬

Numbers

1	▪ ▬ ▬ ▬ ▬	6	▬ ▪ ▪ ▪ ▪
2	▪ ▪ ▬ ▬ ▬	7	▬ ▬ ▪ ▪ ▪
3	▪ ▪ ▪ ▬ ▬	8	▬ ▬ ▬ ▪ ▪
4	▪ ▪ ▪ ▪ ▬	9	▬ ▬ ▬ ▬ ▪
5	▪ ▪ ▪ ▪ ▪	0	▬ ▬ ▬ ▬ ▬

Abbreviated Numbers

1	▪ ▬	6	▬ ▪ ▪ ▪ ▪
2	▪ ▪ ▬	7	▬ ▬ ▪ ▪ ▪
3	▪ ▪ ▪ ▬	8	▬ ▬ ▪ ▪
4	▪ ▪ ▪ ▪ ▬	9	▬ ▪
5	▪	0	▬

Punctuation

Comma ,	▬ ▬ ▪ ▪ ▬ ▬	Full stop (period) .	▪ ▬ ▪ ▬ ▪ ▬
Question mark ?	▪ ▪ ▬ ▬ ▪ ▪	Semicolon ;	▬ ▪ ▬ ▪ ▬
Colon :	▬ ▬ ▬ ▪ ▪ ▪	Slash /	▬ ▪ ▪ ▬ ▪
Dash -	▬ ▪ ▪ ▪ ▪ ▬	Apostrophe '	▪ ▬ ▬ ▬ ▬ ▪
Inverted comma "	▪ ▬ ▪ ▪ ▬ ▪	Underline _	▪ ▪ ▬ ▬ ▬
Left bracket (	▬ ▪ ▬ ▬ ▪	Right bracket)	▬ ▪ ▬ ▬ ▪ ▬
Equals sign =	▬ ▪ ▪ ▪ ▬	Addition sign +	▪ ▬ ▪ ▬ ▪
Multiplication x	▬ ▪ ▪ ▬	At sign @	▪ ▬ ▬ ▪ ▬ ▪

Procedural characters

Start of work	$\overline{CT}$	▬ ▪ ▬ ▪ ▬
End of message	$\overline{AR}$	▪ ▬ ▪ ▬ ▪
End of work	$\overline{VA}$	▪ ▪ ▪ ▬ ▪ ▬
Invitation to Tx	K	▬ ▪ ▬
Invitation for particular station to transmit	$\overline{KN}$	▬ ▪ ▬ ▬ ▪
Wait		▪ ▬ ▪ ▪ ▪
Understood		▪ ▪ ▪ ▬ ▪
Error		▪ ▪ ▪ ▪ ▪ ▪ ▪ ▪

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