

Port number

TCP/UDP port — 0 to 65535.

```
^(6553[0-5]|655[0-2]\d|65[0-4]\d{2}|6[0-4]\d{3}|[1-5]\d{4}|[1-9]\d{0,3}|0)$
```

Token-by-token breakdown

Token	Meaning
^	start of string (or line in multiline mode)
(	start of a capturing group
6553	literal text "6553"
[0-5]	any of: 0–5
	OR — try the alternative
655	literal text "655"
[0-2]	any of: 0–2
\d	any digit (0–9)
	OR — try the alternative
65	literal text "65"
[0-4]	any of: 0–4
\d{2}	exactly 2 times: digit (0–9)
	OR — try the alternative
6	literal text "6"
[0-4]	any of: 0–4
\d{3}	exactly 3 times: digit (0–9)
	OR — try the alternative
[1-5]	any of: 1–5
\d{4}	exactly 4 times: digit (0–9)
	OR — try the alternative
[1-9]	any of: 1–9
\d{0,3}	between 0 and 3 times: digit (0–9)
	OR — try the alternative
0	literal text "0"
)	end of group
\$	end of string (or line in multiline mode)

Quick usage in 7 languages

JavaScript	<pre>const re = /^(6553[0-5] 655[0-2]\d 65[0-4]\d{2} 6[0-4]\d{3} [1-5]\d{4} [1-9]\d{0,3} 0)\$ /; re.test(value);</pre>
Python	<pre>import re re.match(r"^(6553[0-5] 655[0-2]\d 65[0-4]\d{2} 6[0-4]\d{3} [1-5]\d{4} [1-9]\d{0,3} 0)\$", value)</pre>
Java	<pre>Pattern.compile("^(6553[0-5] 655[0-2]\\d 65[0-4]\\d{2} 6[0-4]\\d{3} [1-5]\\d{4} [1-9]\\d{0,3} 0)\$").matcher(value).matches();</pre>
C# / .NET	<pre>Regex.IsMatch(value, @"^(6553[0-5] 655[0-2]\d 65[0-4]\d{2} 6[0-4]\d{3} [1-5]\d{4} [1-9]\d{0,3} 0)\$");</pre>
Go	<pre>regexp.MustCompile(`^(6553[0-5] 655[0-2]\d 65[0-4]\d{2} 6[0-4]\d{3} [1-5]\d{4} [1-9]\d{0,3} 0)\$`).MatchString(value)</pre>
Ruby	<pre>/^(6553[0-5] 655[0-2]\d 65[0-4]\d{2} 6[0-4]\d{3} [1-5]\d{4} [1-9]\d{0,3} 0)\$/.match?(value)</pre>
PHP	<pre>preg_match('~^(6553[0-5] 655[0-2]\d 65[0-4]\d{2} 6[0-4]\d{3} [1-5]\d{4} [1-9]\d{0,3} 0)\$~', \$value);</pre>

Common pitfalls

- **Anchored to the whole string.** This pattern uses ^ and \$, so it requires the entire input to match. To find it inside a longer text, drop the anchors and use the global (g) flag.
- **Escape it correctly per language.** In Java and JavaScript strings each backslash must be doubled (\d); in Python, Go, and C# use raw/verbatim strings so the backslashes survive.
- **Validate beyond format.** Matching the format doesn't guarantee the value is real. Confirm the port number against a source of truth (database, API, or checksum) where it matters.