

Nerve

A nerve is an enclosed, cable-like bundle of [axons](#) in the [peripheral nervous system](#).

A [nerve root](#) (latin: radix nervi) is the initial segment of a [nerve](#) leaving the [central nervous system](#).

Function

A nerve provides a common pathway for the electrochemical nerve impulses that are transmitted along each of the [axons](#) to peripheral organs.

In the [central nervous system](#), the analogous structures are known as [tracts](#).

Neurons are sometimes called nerve cells, though this term is potentially misleading since many neurons do not form nerves, and nerves also include non-neuronal Schwann cells that coat the axons in myelin.

Each nerve is a cordlike structure that contains many axons, also called nerve fibres. Within a nerve, each axon is surrounded by a layer of connective tissue called the endoneurium. The axons are bundled together into groups called fascicles, and each fascicle is wrapped in a layer of connective tissue called the perineurium. Finally, the entire nerve is wrapped in a layer of connective tissue called the epineurium.

[Cranial nerves](#)

[Spinal nerves](#)

[Peripheral nerves](#)

see [Nerve block](#).

see [Nerve transfer](#).

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