



Electrical Wire Size Chart

Wire at Del City

Del City stocks a single conductor copper wire with PVC (polyvinyl chloride) insulation for added strength and protection. The insulation protects the copper wire in high heat or extreme cold, allowing it to run optimally between temperatures of -40°C to 80°C, or -40°F to 176°F. The smooth surface PVC is ideal for constructing wire harnesses, easy to pull through loom or conduit.

Primary Wire

Primary wire is used for most automotive wiring applications including wiring of sensors, relays, fuse blocks, and lighting. It is highly resistant to grease, oil and acids making it ideal for these general mechanic applications. Designed with a resistant PVC coating, this copper wire can also be used for power and ground wiring.

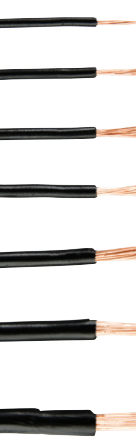
It is important to use the appropriate size wire for the circuit you are running. The more current being driven in the circuit, the larger the wire you will need. Use the chart below for general use recommendations based on typical circuit load.

Gauge Size

Gauge is determined by the number of copper strands and micrometer measurement of the individual strands found within the PVC insulation of each primary wire. Combined, these two numbers give us a conductor stranding.

Gauge sizes: Range from 8 - 20 gauge
Colors: Include red, white, blue, green, black, yellow, and brown. Select gauge sizes also include gray, purple, orange, pink, tan, light blue and light green.
Spool sizes: Range from 100' - 6,000'
 Thrifty spools are also available in a variety of gauges and colors. These are short length spools, ranging 10 - 45', ideal for small jobs or resale.

Gauge = Conductor Stranding
20 Gauge = 7/0.0126
(7 strands that measure .0126 each)
18 Gauge = 16/0.010
16 Gauge = 19/0.0112
14 Gauge = 19/0.0140
12 Gauge = 19/0.0177
10 Gauge = 19/0.0223
8 Gauge = 19/0.0281



Gauges	General Uses	Spool Sizes Available										Colors Available														
		100'	500'	1000'	1500'	2000'	2500'	3000'	4000'	5000'	6000'	Thrifty	red	white	blue	green	black	yellow	brown	grey	purple	orange	pink	tan	light blue	light green
20 gauge	Signal wiring for vehicle controllers like sensors, injectors, and sending units.	x	x	x							x		x	x	x	x	x	x	x	x	x	x	x	x		
18 gauge		x	x	x				x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
16 gauge	Most common sizes running lighting, radios, relays, switches, switch panels, control panels.	x	x	x			x			x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
14 gauge		x	x	x		x			x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
12 gauge	Typically used more for power wires, grounds, relays, trailer sockets,	x	x	x	x				x		x	x	x	x	x	x	x	x	x	x	x	x				
10 gauge	motors, higher amperage circuits.	x	x	x				x			x	x	x	x	x	x	x	x	x	x	x					
8 gauge	Component power and grounds, high amp circuits.	x	x	x										x	x							x				