

Power Cord Glossary of Terminology:

Flat Wire:

SPT: Stranded, Parallel, Thermoplastic

This is always followed by a -1, -2 or -3, signifying insulation thickness for different applications.

HPN: Heater, Parallel, Neoprene

Required for heater-type application, such as irons, toasters, etc.

NOTE: We can run some 20 AWG, but mostly we run 18, 16 and 14 AWG, 2 or 3 conductors. P is always Parallel Wire (Flat).

Jacketed Wire:

S = Stranded (or Service Wire)

J = Junior Service (300 Volt). If no "J" is in the wire type, then it is a hard service (600 Volt).

T = Thermoplastic. If no "T" is in the wire type, then it has a rubber jacket.

O = Oil-Resistant Compound

W = Weather-Resistant Compound

V = Vacuum - as in vacuum cleaner. This is a small O.D. jacketed wire, very flexible and initially used for vacuum cleaners but now used on many different types of products. Available only in 18 AWG.

Examples:

SV = Stranded Vacuum Rubber Jacketed (NO "T")

SJT = Stranded Junior Thermoplastic

SJTOW = Stranded Junior Thermoplastic, Oil and Weather resistant for UL and CSA.

S	Extra hard service flexible cord for general use at 600 volts, rated at 60° C. Rubber insulated and jacketed.
SE	Extra hard service flexible cord for general use at 600 volts, rated at -58° F to +221° F. TPE thermoplastic elastomer insulated and jacketed.
SEO	Type SE, but also rated oil resistant.
SEOW-A	Type SEO, but also rated for outdoor use at -58° F.
SEW-A	Type SE, but additionally rated for outdoor use at -58° F.
SJ	Hard service cord for general use at 300 volts, rated at 60° C, rubber insulated and jacketed.
SJE	Hard service cord for general use at 300 volts, rated at -58° F to +221° F, TPE thermoplastic elastomer insulated and jacketed.
SJEO	Type SJE, but rated as oil resistant.
SJEOW-A	Type SJEO, but rated for outdoor use at -58° F.
SJEW-A	Type SJE, but rated for outdoor use at -58° F.
SJO	Type SJ, but rated oil resistant.
SJOW-A	Type SJO, but rated for outdoor use at -30° F.

SJT	Hard service cord for general use at 300 volts, rated -4° F to +140° F, PVC thermoplastic insulated and jacketed.
SJTO	Type SJT, but also rated oil resistant.
SJTOW-A	Type SJTO, but rated for outdoor use at -31° F.
SJTW-A	Type SJT, but rated for outdoor use at -31° F.
SO	Type S, but also rated oil resistant.
SOW-A	Type SO, but also rated for outdoor use at -31° F.
SPT-1	Thermoplastic parallel cord for light duty, 300 volts.
SPT-2	Type SPT-1, but heavier construction, 300 volts.
SPT-3	Type SPT-2, but heavier construction, 300 volts.
ST	Extra hard service cord for general use at 600 volts, rated at -4° F to +140° F, PVC thermoplastic insulated and jacketed.
STO	Type ST, but also rated oil resistant.
STOW-A	Type STO, but rated for outdoor use at -31° F.
STW-A	Type ST, but rated for outdoor use at -31° F.
SVT	Vacuum cleaner cord, PVC thermoplastic insulated and jacketed rated 300 volts, 18 AWG and 16 AWG only, two conductors.
T, TW, THN, THHN, THWN	Thermoplastic insulated wires. Building wires used for construction.

Miscellaneous requirements:

S.P. = Surface Printed

N.M. = Non-Migratory compound to prevent the wire color from bleeding under unusual circumstances.

VW-1 = Vertical Flame test (formerly FR-1)

60°C = Standard temperature rating (except HPN - 90°C)

105°C = Electric-Cord's alternate rating (we normally don't stock 75°, 90°C)

IEC, ICC = International Color Code on the inner conductors (Blue, Brown, Green w/Yellow Stripe)

N.A. = North American Color Code on the inner conductors (Black, White, Green)

41/34 = Stranding - 41 strands of 34 AWG wire for each inner conductor

T.C. = Tinned Copper inner conductors

RIBBED = Outer jacket is striated with ribs

R/S or W/S = Red or White Stripe for visual polarity inspection on Flat wire

Inner Conductor Colors:

Function	North American (NA)	International (ICC)
Hot	Black	Brown
Neutral	White	Blue
Earth (Ground)	Green	Green w/Yellow Stripe

Ampere Ratings of 3-Conductor Bulk Flexible Cords and Cables

Table below shows the amperes a cord or cable can carry continuously without exceeding its temperature rating and is for two current carrying conductors and one non-current carrying conductor. (Taken from the

National Electric Code)

Conductor Size AWG	Types SE, SEO, SJE, SJEO, SJT, SJTO, ST, STO, SPT-1, SPT-2, SPT-3	Conductor Size AWG	Types SE, SEO, SJE, SJEO, SJT, SJTO, ST, STO, SPT-1, SPT-2, SPT-3
18	10 AMPS	8	40 AMPS
16	13 AMPS	6	55 AMPS
14	18 AMPS	4	70 AMPS
12	25 AMPS	2	95 AMPS
10	25 AMPS 30 AMPS		