

UL Cord Construction and Ratings

Cord Type*	AWG Size Range	# of Cond.	Conductor Insulation	Jacket**	Temp. Rating***		Voltage Rating
					Std.	Other	
TPT	27 (Tinsel)	2	.030 Plastic		60		250
SP-1	18	2 or 3 ¹	.030 Rubber		60		300
SPT-1	18	2 or 3 ¹	.030 Plastic		60	75, 90, 105	300
SP-2	18-16	2 or 3 ¹	.045 Rubber		60		300
SPT-2	18-16	2 or 3 ¹	.045 Plastic		60	75, 90, 105	300
SP-3	18-12	2 or 3 ¹	.060 Rubber ²		60		300
SPT-3	18-10	2 or 3 ¹	.060 Plastic ²		60	75, 90, 105	300
TS	27 (Tinsel)	2	.015 Rubber	.031 Rubber	60		125
TST	27 (Tinsel)	2	.015 Plastic	.031 Plastic	60		125
SV	18	2 or 3 ¹	.015 Rubber	.030 Rubber	60	75, 90	300
SVE	18-17	2 or 3 ¹	.015 Elastomer	.030 Elastomer	105		300
SVEO	18-17	2 or 3 ¹	.015 Elastomer	.030 Elastomer	105		300
SVO	18	2 or 3 ¹	.015 Rubber	.030 Neoprene [~]	60	75, 90	300
SVT	18-17	2 or 3 ¹	.015 Plastic	.030 Plastic	60	75, 90, 105	300
SVTO	18-17	2 or 3 ¹	.015 Plastic	.030 Plastic	60	75, 90, 105	300
SJ	18-10	2, 3, 4	.030 Rubber ³	.030 Rubber ³	60	75, 90	300
SJE	18-10	2, 3, 4, 5	.030 Elastomer ²	.030 Elastomer ²	105		300
SJEO	18-10	2, 3, 4, 5	.030 Elastomer ²	.030 Elastomer ²	105		300
SJO	18-10	2, 3, 4	.030 Rubber ³	.030 Neoprene ^{~3}	60	75, 90, 105	300
SJOOW	18-10	2, 3, 4	.030 Rubber ³	.030 Neoprene ^{~3}	60	75, 90, 105	300
SJT	18-10	2, 3, 4	.030 Plastic ³	.030 Plastic ³	60	75, 90, 105	300
SJTO	18-10	2, 3, 4	.030 Plastic ³	.030 Plastic ³	60	75, 90, 105	300
S	18-2	2 or more	.030 Rubber ²	.060 Rubber ²	60	75, 90	600
SE	18-2	2 or more	.030 Elastomer ²	.060 Elastomer ²	105		600
SEO	18-2	2 or more	.030 Elastomer ²	.060 Elastomer ²	105		600
SO	18-2	2 or more	.030 Rubber ²	.060 Neoprene ^{~2}	60	75, 90	600
SOOW	18-2	2 or more	.030 Rubber ²	.060 Neoprene ^{~2}	60	75, 90	600
ST	18-2	2 or more	.030 Plastic ²	.060 Plastic ²	60	75, 90, 105	600
STO	18-2	2 or more	.030 Plastic ²	.060 Plastic ²	60	75, 90, 105	600
STOOW	18-2	2 or more	.030 Plastic ²	.060 Plastic ²	60	75, 90, 105	600
HPN	18-12	2 or 3 ¹	.045 Neoprene		90	105	300
HSJ	18-12	2, 3, 4	.030 Neoprene ²	.030 Rubber ²	90		300
HSJO	18-12	2, 3, 4	.030 Neoprene ²	.030 Neoprene ^{~2}	90		300
HS	14-12	2, 3, 4	.045 Neoprene ²	.060 Rubber ²	90		300
H5O	14-12	2, 3, 4	.045 Neoprene ²	.060 Neoprene ^{~2}	90		300

* Types SVO, SVTO, SJO, SJOOW, SJTO, SO, SOOW, STO HSJO and H5O have jackets which are also recognized for oil resistance at maximum temperature of 60C. Types SJ, SJO, SJT, SJTO, S, SO, ST and STO may also be printed as "OOW" inferring an oil resistant insulation and an oil resistant and moisture resistant jacket. Acceptable for indoor/outdoor use. 3-wire SJT may be made in special low-leakage constructions for medical equipment cords.

** Where no jacket is shown, the construction is integral or flat style with insulation also serving as jacket.

*** For cordage ratings higher than 60C, the temperature limit is printed on the outside of the jacket. This does not apply to heater cordage type HPN, rated 90C or 105C. Also, for heater cordage types HSJ, HSJO, HS and H5O, the core is rated 90C while temperature printed on outside applies only to jacket.

¹ Recognized in three conductors where third or center conductor (with green of green/yellow stripe) is used for equipment grounding.

² Insulation and jacket thickness depend on cordage size. Thickness shown are for 18 and 16 AWG.

³ Insulation and jacket thickness depend on cordage size. No. 12 AWG requires .030" conductor insulation thickness and .045" jacket thickness. No. 10 AWG requires .045" conductor insulation thickness and .060" jacket thickness.

Chlorosulfonated polyethylene and other UL Listed materials may be used as jacketing material for such cordage as SVO, SJO, SO and HPN to provide oil resistance and/or colors with excellent stability in all shades.

NOTE Types TPT, SPT-1, SPT-2, SPT-3, HPN (two conductors only) and SVO, SVT, SJO, SJT, SO and ST may be made in retractile form.

The term Elastomer refers to thermoplastic elastomer.