UL Cordage Type

Designation

UL Cord Type	Description					
HPN	Heater Parallel Neoprene					
HSJ	Heater Service Junior					
HSJ0	HSJ with Oil-Resistant Jacket					
S	Service					
SE	Service Elastomer					
SE0	SE with Oil-Resistant Jacket					
SE00	SEO with Oil-Resistant Insulation					
SJ	Service Junior					
SJE	Service Junior Elastomer					
SJE0	SJE with Oil-Resistant Jacket					
SJE00	SJEO with Oil-Resistant Insulation					
SJ0	SJ with Oil-Resistant Jacket					
SJ00	SJO with Oil-Resistant Insulation					
SJT	Service Junior Thermoplastic					
SJT0	SJT with Oil-Resistant Jacket					
SJT00	SJTO with Oil-Resistant Insulation					
SO	Service with Oil-Resistant Jacket					
S00	SO with Oil-Resistant Insulation					
SP-1	Service Parallel — 1/32" Insulation					
SP-2	Service Parallel — 3/64" Insulation					
SP-3	Service Parallel — 1/16" Insulation					
SPE-1	Service Parallel Elastomer — 1/32" Insulation					
SPE-2	Service Parallel Elastomer — 3/64" Insulation					
SPE-3	Service Parallel Elastomer — 1/16" Insulation					
SPT-1	Service Parallel Thermoplastic — 1/32" Insulation					
SPT-2	Service Parallel Thermoplastic — 3/64" Insulation					
SPT-3	Service Parallel Thermoplastic — 1/16" Insulation					
ST	Service Thermoplastic					
ST0	ST with Oil-Resistant Jacket					
ST00	STO with Oil-Resistant Insulation					
SV	Service Vacuum					
SVE	Service Vacuum Elastomer					
SVEO	SVE with Oil-Resistant Jacket					
SVEOO	SVEO with Oil-Resistant Insulation					
SVO	SV with Oil-Resistant Jacket					
SVOO	SVO with Oil-Resistant Insulation					
SVT	Service Vacuum Thermoplastic					
SVTO	SVT with Oil-Resistant Jacket					
SVT00	SVTO with Oil-Resistant Insulation					
TPT	Tinsel Parallel Thermoplastic					
TST	Tinsel Service Thermoplastic					
XTW	Decorative Lighting Thermoplastic Parallel					
	0 0 pm					

NOTE: Service parallel types—wall thickness for integral construction.

Elastomer is a thermoplastic material with elastomeric properties similar to rubber.

UL Cordage Type

Construction and Rating

Cord Type*	AWG Size Range	No. of Cond.	Conductor Insulation Material and Min. Average Thickness (inches)	Jacket Material and Min. Average Thickness** (inches)	Temperature Rating (°C) [†]		Voltage
					Standard	Other	Rating
HPN	18 – 12	2 or 3 ^{††}	.045 Rubber		90	105	300
HSJ	18 – 12	2, 3, 4	.030 Rubber ^{††}	.030 Rubber	90		300
HSJ0	18 – 12	2, 3, 4	.030 Rubber⁴	.030 Oil-Resistant Rubber	90		300
S	18 – 2	2 or more	.030 Rubber▲	.060 Rubber▲	60	75, 90	600
SE	18 – 2	2 or more	.030 Elastomer	.060 Elastomer	105		600
SE0	18 – 2	2 or more	.030 Elastomer	.060 Elastomer	105		600
SJ	18 – 10	2, 3, 4, 5	.030 Rubber*	.030 Rubber	60	75, 90	300
SJE	18 – 10	2, 3, 4, 5	.030 Elastomer ^{††}	.030 Elastomer	105		300
SJE0	18 – 10	2, 3, 4, 5	.030 Elastomer	.030 Elastomer	105		300
SJ0	18 – 10	2, 3, 4, 5	.030 Rubber*	.030 Oil-Resistant Rubber	60	75, 90, 105	300
SJT	18 – 10	2, 3, 4, 5	.030 Plastic*	.030 Plastic	60	75, 90, 105	300
SJT0	18 – 10	2, 3, 4, 5	.030 Plastic*	.030 Plastic	60	75, 90, 105	300
SO	18 – 2	2 or more	.030 Rubber▲	.060 Oil-Resistant Rubber*	60	75, 90	600
SP-1	18	2 or 3 ^{††}	.030 Rubber		60		300
SP-2	18 – 16	2 or 3 ^{††}	.045 Rubber		60		300
SP-3	18 – 12	2 or 3 ^{††}	.060 Rubber⁴		60		300
SPT-1	18	2 or 3 ^{††}	.030 Plastic		60	75, 90, 105	300
SPT-2	18 – 16	2 or 3 ^{††}	.045 Plastic		60	75, 90, 105	300
SPT-3	18 – 10	2 or 3 ^{††}	.060 Plastic◆		60	75, 90, 105	300
ST	18 – 2	2 or more	.030 Plastic⁴	.060 Plastic▲	60	75, 90, 105	600
STO	18 – 2	2 or more	.030 Plastic⁴	.060 Plastic▲	60	75, 90, 105	600
SV	18	2 or 3 ^{††}	.015 Rubber	.030 Rubber	60	75, 90	300
SVE	18 – 17	2 or 3 ^{††}	.015 Elastomer	.030 Elastomer	105		300
SVE0	18 – 17	2 or 3 ^{††}	.015 Elastomer	.030 Elastomer	105		300
SV0	18	2 or 3 ^{††}	.015 Rubber	.030 Oil-Resistant Rubber	60	75, 90	300
SVT	18 – 17	2 or 3 ^{††}	.015 Plastic	.030 Plastic	60	75, 90, 105	300
SVT0	18 – 17	2 or 3 ^{††}	.015 Plastic	.030 Plastic	60	75, 90, 105	300
TPT	27 (Tinsel)	2	.030 Plastic		60		300
TST	27 (Tinsel)	2	.015 Plastic	.030 Rubber	60		300

^{*} Types SVO, SVTO, SJO, SJTO, SO, STO and HSJO have jackets which are also recognized for oil resistance at maximum temperature of 60°C. Types SJ, SJO, SJT, SJTO, S, SO, ST and STO may also be made for outdoor use and will be indicated by adding a "W" suffix to the cord type. Similarly, types SJ, SJTO, SJO, SJT, S, SO, ST and STO may also be made in water-resistant grades with "Water-Resistant" printed on the jacket. 3-wire SJT may be made in special low-leakage constructions for medical equipment cords.

The term Elastomer refers to thermoplastic elastomer.



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

For cordage ratings higher than 60°C, the temperature limit is printed on the outside of the jacket. This does not apply to heater cordage type HPN, rated 90°C, or 105°C.

 $^{^{\}dagger\dagger} \ \ \text{Recognized in three conductors when third or center conductor (with Green or Green/Yellow stripe) is used for equipment grounding.}$

[▲] Insulation and jacket thickness depend on cordage size. Thickness as shown are for 18 and 16 AWG.

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.