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ISO 9001
ISO 14001
QHSAS 18001



LS Cable & System
Leading Solution

UL Cable

Medium & Low Voltage Power Cable





Energy Cables & Systems

LS Cable & System-setting
the standards in power
solution business

Industrial Materials

Realizing a convenient future
with cutting-edge materials

Telecommunications

Providing cutting-edge,
innovative technologies for a
ubiquitous network

Integrated Modules & Cable Systems

Providing the best customized
cable solutions for
all environments



Total Solution Provider for Electric Power and Telecommunication Industries

LS Cable & System, the longtime de facto holding company of LS Group, officially transformed into a holding company in July of 2008. The company's operations now encompass a total solution for electric power and telecommunication industries.

The latest change in corporate structure comes as the company is accelerating efforts to improve management efficiency in rapidly expanding markets. The move also results from efforts to effect a more responsible and transparent management structure. Management is now prepared to take more aggressive action to enhance our businesses and to identify new growth engines. The holding company will take the lead in fostering new growth engines and in identifying lucrative investment opportunities, while the company's other business units will focus on improving management and on making operations more efficient. With the continued support of the holding company, LS Cable & System will spearhead efforts to strengthen our business expertise, corporate competitiveness and management.

Toward the Global Leading Cable Company

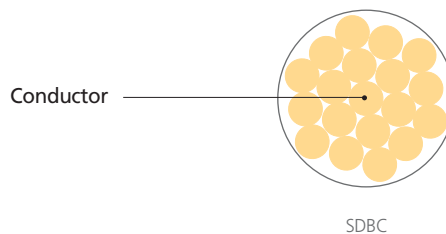
In August of 2008 LS Cable & System acquired Superior Essex, North America's largest cable company, making LS Cable & System the third-largest player in the global cable industry. Superior Essex's flagship line of magnet wires and telecommunication cables further strengthened LS Cable & System's product lineup, which had focused on power cables, fiber optic cables and industrial materials. Superior Essex's extensive North America and European production and distribution networks will help LS Cable & System cement a presence in the region and bring the company one step closer to becoming a full-fledged global enterprise.

Superior Essex

Superior Essex Inc., a FORTUNE 1,000 company, is one of the largest wire and cable manufacturers in the world. The company manufactures and supplies a broad portfolio of wire and cable products for the communications, energy, automotive, industrial, and commercial & residential end-markets. It is a leading manufacturer of magnet wire, fabricated insulation products, and copper and fiber optic communications wire and cable. It is also a leading distributor of magnet wire, insulation and related products.

SDBC

Soft Drawn Bare Copper Conductor



Application

Type SDBC listed by UL is suitable for use in electrical properties

Standard

ASTM B8 Standard specification for Stranded Copper Conductors

Construction

Conductor Stranded annealed copper wires

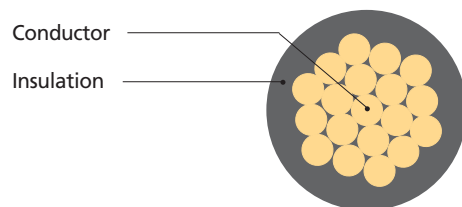
Conductor						Nom. DC Conduct or Resistance (20 °C)	Weight of cable (Approx.)	
Size		Construction	Shape	Diameter (nom.)				
AWG or KCM	mm ²	No.of strnds	-	mm	mils	Ω/km	kg/km	lb/1000ft
14	2.08	7	Round	1.8	72	8.46	26	57.32
12	3.31	7	Round	2.32	92.8	5.35	41	90.39
10	5.26	7	Round	2.95	118	3.35	61	134.48
8	8.37	7	Round	3.71	148.4	2.1	95	209.44
6	13.3	7	Round	4.67	186.8	1.32	160	352.74
4	21.2	7	Round	5.89	235.6	1.05	245	540.13
3	26.7	7	Round	6.6	264	0.83	295	650.36
2	33.6	7	Round	7.42	296.8	0.659	370	815.71
1	42.4	19	Round	8.43	337.2	0.522	470	1036.17
1/0	53.5	19	Round	9.47	378.8	0.328	575	1267.66
2/0	67.4	19	Round	10.64	425.6	0.261	715	1576.31
3/0	85	19	Round	11.94	477.6	0.207	875	1929.05
4/0	107	19	Round	13.41	536.4	0.164	1095	2414.06
250	127	37	Round	14.61	584.4	0.139	1430	3152.61
300	152	37	Round	16	640	0.116	1535	3384.10
350	177	37	Round	17.3	692	0.0991	1780	3924.23
400	203	37	Round	18.49	739.6	0.0866	2030	4475.38
500	253	37	Round	20.65	826	0.0695	2500	5511.56
750	380	61	Round	25.35	1014	0.0462	3750	8267.34

× Per Table 310-16 of the National Electrical Code, 2005 edition.

× Conditions : Not more than three conductors in raceway or cable or earth(directly buried), based on ambient temperature of 30°C

600V THW

600V Heat-Resistant PVC Insulated Wire



600V THW



Application

Type THW listed by UL is suitable for use in wet and dry locations at 75°C.

This wire is generally used in conduit or other approved raceways in commercial wiring, as specified in the National Electrical Code.

Standard

UL83 Thermoplastic insulated wires and cables

Construction

Conductor Solid or stranded annealed copper

Insulation Flame-retardant, Heat-, Abrasion- and moisture-resistant PVC

Color

The standard color is black, when required for a particular application, other colors are available

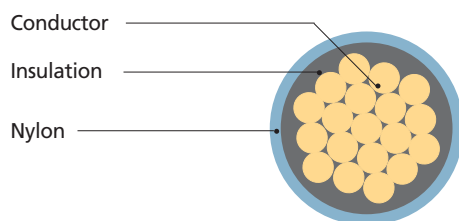
Conductor					Insulation Thickness				Apprx. Overall Diameter		Apprx. weight		Ampacity	Nom. DC Conduct or Resistance (20°C)
Size		No.of Strands	Diameter										(75 °C)	
			AWG or KCM	mm ²	mm	mils	mm	mils	mm	mils	kg/km	lb/1000ft	dry and wet location	
14	2.08	1	1.63	65.2	0.76	30.4	0.69	27.6	3.6	144	27	59.5	15	8.45
14	2.08	7	1.85	74	0.76	30.4	0.69	27.6	3.8	152	30	66.1	15	8.62
12	3.31	1	2.05	82	0.76	30.4	0.69	27.6	4	160	39	86.0	20	5.31
12	3.31	7	2.32	92.8	0.76	30.4	0.69	27.6	4.2	168	43	94.8	20	5.43
10	5.26	1	2.59	103.52	0.76	30.4	0.69	27.6	4.5	180	58	127.9	30	3.343
10	5.26	7	2.95	118	0.76	30.4	0.69	27.6	4.8	192	63	138.9	30	3.409
8	8.37	7	3.71	148.4	1.14	45.6	1.02	40.8	6.4	256	105	231.5	50	2.144
6	13.3	7	4.67	186.8	1.52	60.8	1.37	54.8	8.2	328	168	370.4	65	1.348
4	21.2	7	5.89	235.6	1.52	60.8	1.37	54.8	9.5	380	249	549.0	85	0.8481
3	26.7	7	6.02	240.8	1.52	60.8	1.37	54.8	10.2	408	305	672.4	100	0.6727
2	33.6	7	6.81	272.4	1.52	60.8	1.37	54.8	11	440	376	828.9	115	0.5335
1	42.4	19	7.59	303.6	2.03	81.2	1.83	73.2	13	520	490	1080.3	130	0.423
1/0	53.5	19	8.53	341.2	2.03	81.2	1.83	73.2	14.2	568	592	1305.1	150	0.3354
2/0	67.4	19	9.55	382	2.03	81.2	1.83	73.2	15.5	620	734	1618.2	175	0.266
3/0	85	19	10.74	429.6	2.03	81.2	1.83	73.2	16.5	660	905	1995.2	200	0.211
4/0	107	19	12.07	482.8	2.03	81.2	1.83	73.2	17.5	700	1120	2469.2	230	0.1673
250	127	37	13.21	528.4	2.41	96.4	2.18	87.2	19.5	780	1345	2965.2	255	0.1416
300	152	37	14.48	579.2	2.41	96.4	2.18	87.2	21	840	1595	3516.4	285	0.118
350	177	37	15.65	626	2.41	96.4	2.18	87.2	22.5	900	1836	4047.7	310	0.1011
400	203	37	16.74	669.6	2.41	96.4	2.18	87.2	23.5	940	2080	4585.6	335	0.08851
500	253	37	18.69	747.6	2.41	96.4	2.18	87.2	25.5	1020	2566	5657.1	380	0.0708

※Per Table 310-16 of the National Electrical Code, 2005 edition.

※Conditions : Not more than three conductors in raceway or cable or earth(directly buried), based on ambient temperature of 30°C

600V THHN or THWN

600V Heat-Resistant PVC Insulated and Nylon Jacketed Wire



600V THHN or THWN

Application

Type THHN is suitable for use in dry locations at 90 °C.

Type THWN is suitable for use in dry and wet locations at 75 °C.

These wires are generally used in conduit as branch circuits in commercial or industrial applications, as specified in the National Electrical Code.

Standard

UL83 Thermoplastic insulated wires and cables

Construction

Conductor Solid or stranded annealed copper

Insulation Flame-retardant, Heat-, Abrasion-and moisture-resistant PVC with clear nylon jacket

Color

The standard color is black, when required for a particular application, other colors are available

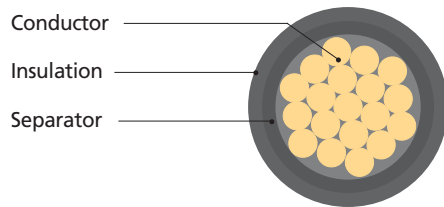
Conductor					Insulation thickness				Nylon layer (min)		Overall diameter (Approx.)		Weight of cable (Approx.)		Ampacity		Nom. DC Conduct or Resistance (20 °C)
Size		No.of Strands	Diameter		min.ave		min								THWN (75 °C)	THHN (75 °C)	
			AWG or KCM	mm²	mm	mils	mm	mils	mm	mils	mm	mils	kg/km	lb/1000ft			
14	2.08	1	1.63	65.2	0.38	15.2	0.33	13.2	0.1	4	3	120	25	55.1	15	15	8.45
14	2.08	7	1.85	74	0.38	15.2	0.33	13.2	0.1	4	3.2	128	26	57.3	15	15	8.62
12	3.31	1	2.05	82	0.38	15.2	0.33	13.2	0.1	4	3.4	136	40	88.2	20	20	5.31
12	3.31	7	2.32	92.8	0.38	15.2	0.33	13.2	0.1	4	3.7	148	41	90.4	20	20	5.43
10	5.26	1	2.59	103.52	0.51	20.4	0.46	18.4	0.1	4	4.3	172	60	132.3	30	30	3.343
10	5.26	7	2.95	118	0.51	20.4	0.46	18.4	0.1	4	4.7	188	61	134.5	30	30	3.409
8	8.37	7	3.71	148.4	0.76	30.4	0.69	27.6	0.13	5.2	6	240	95	209.4	50	55	2.144
6	13.3	7	4.67	186.8	0.76	30.4	0.69	27.6	0.13	5.2	7	280	160	352.7	65	55	1.348
4	21.2	7	5.89	235.6	1.02	40.8	0.91	36.4	0.15	6	9.1	364	245	540.1	85	75	0.8481
3	26.7	7	6.02	240.8	1.02	40.8	0.91	36.4	0.15	6	9.3	372	295	650.4	100	95	0.6727
2	33.6	7	6.81	272.4	1.02	40.8	0.91	36.4	0.15	6	10.1	404	370	815.7	115	110	0.5335
1	42.4	19	7.59	303.6	1.27	50.8	1.14	45.6	0.18	7.2	11.4	456	470	1036.2	130	130	0.423
1/0	53.5	19	8.53	341.2	1.27	50.8	1.14	45.6	0.18	7.2	12.4	496	575	1267.7	150	150	0.3354
2/0	67.4	19	9.55	382	1.27	50.8	1.14	45.6	0.18	7.2	13.5	540	715	1576.3	175	170	0.266
3/0	85	19	10.74	429.6	1.27	50.8	1.14	45.6	0.18	7.2	14.7	588	875	1929.0	200	195	0.211
4/0	107	19	12.07	482.8	1.27	50.8	1.14	45.6	0.18	7.2	15.9	636	1095	2414.1	230	225	0.1673
250	127	37	13.21	528.4	1.52	60.8	1.38	55.2	0.2	8	17.6	704	1430	3152.6	255	260	0.1416
300	152	37	14.48	579.2	1.52	60.8	1.38	55.2	0.2	8	18.9	756	1535	3384.1	285	290	0.118
350	177	37	15.65	626	1.52	60.8	1.38	55.2	0.2	8	20.1	804	1780	3924.2	310	320	0.1011
400	203	37	16.74	669.6	1.52	60.8	1.38	55.2	0.2	8	21.2	848	2030	4475.4	335	350	0.08851
500	253	37	18.69	747.6	1.52	60.8	1.38	55.2	0.2	8	23.1	924	2500	5511.6	380	380	0.0708
750	2.08	61	23.06	922.4	1.78	71.2	1.6	64	0.23	9.2	28.5	1140	3750	8267.3	475	475	0.04721

× Per Table 310-16 of the National Electrical Code, 2005 edition.

× Conditions : Not more than three conductors in raceway or cable or earth(directly buried), based on ambient temperature of 30 °C

600V XHHW

600V Flame-Retardant XLPE Insulated Wire



600V XHHW



Application

Type XHHW listed by UL is suitable for use in dry locations at 90 °C and in wet locations at 75 °C. This wire is generally used for distribution and branch circuit wiring in commercial and residential applications with conduit as specified in the National Electrical Code.

Standard

UL44 Thermoset Insulated Wires and Cables

Construction

Conductor Solid or stranded annealed copper
 Separator A separator may be applied on stranded conductor
 Insulation Flame-retardant, heat-, abrasion-and moisture-resistant crosslinked polyethylene(FR-XLPE)

Color

The standard color is black, when required for a particular application, other colors are available

Conductor					Insulation Thickness		Apporx. Overall Diameter		Apporx. weight		*Ampacity		Standrad Length	
Size		No.of Strands	**Diameter								75℃ (Wet)	90℃ (Dry)		
AWG or KCM	mm ²			mm	mils	mm	mils	mm	mils	kg/km	lb/1000ft			m
14	2.08	1	1.63	64.1	0.76	30	3.3	132	25	17	15	15	915	3,000
14	2.08	7	1.85	72.7	0.76	30	3.5	140	25	17	15	15	915	3,000
12	3.31	1	2.05	80.8	0.76	30	3.7	148	35	24	20	20	915	3,000
12	3.31	7	2.32	91.5	0.76	30	4.0	160	40	27	20	20	915	3,000
10	5.26	1	2.59	102	0.76	30	4.2	168	55	37	30	30	915	3,000
10	5.26	7	2.95	116	0.76	30	4.5	180	60	40	30	30	915	3,000
8	8.37	1	3.26	129	1.14	45	5.7	228	95	64	50	55	915	3,000
8	8.37	7	3.71	146	1.14	45	6.2	248	100	67	50	55	915	3,000
6	13.3	7	4.67	184	1.14	45	7.1	284	150	100	65	75	915	3,000
4	21.2	7	5.89	232	1.14	45	8.3	332	220	150	85	95	915	3,000
3	26.7	7	6.60	260	1.14	45	9.1	364	280	190	100	110	915	3,000
2	33.6	7	7.42	292	1.14	45	9.9	396	350	240	115	130	915	3,000
1	42.4	19	8.43	332	1.40	55	11.5	460	440	300	130	150	457	1,500
1/0	53.5	19	9.45	372	1.40	55	12.5	500	550	370	150	170	457	1,500
2/0	67.4	19	10.62	418	1.40	55	13.7	548	690	460	175	195	457	1,500
3/0	85.0	19	11.94	470	1.40	55	15.0	600	850	570	200	225	457	1,500
4/0	107	19	13.41	528	1.40	55	16.4	656	1,060	710	230	260	457	1,500
250	127	37	14.61	575	1.65	65	18.3	732	1,270	850	255	290	457	1,500
300	152	37	16.00	630	1.65	65	19.8	792	1,520	1,020	285	320	457	1,500
350	177	37	17.30	681	1.65	65	21.0	840	1,750	1,180	310	350	457	1,500
400	203	37	18.49	728	1.65	65	22.2	888	1,990	1,340	335	380	457	1,500
500	253	37	20.65	813	1.65	65	24.3	972	2,470	1,660	380	430	305	1,000
600	304	61	22.68	893	2.03	80	27.3	1,092	3,000	2,020	420	475	305	1,000
750	380	61	25.35	998	2.03	80	30.0	1,200	3,730	2,510	475	535	305	1,000
1,000	507	61	29.26	1,152	2.03	80	33.9	1,356	4,900	3,290	545	615	305	1,000

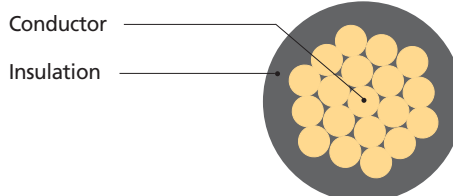
*Per Table 310-16 of the National Electrical Code, 2005 edition.

※Conditions : Not more than three conductors in raceway or cable or earth(directly buried), based on ambient temperature of 30 °C

※※ These values are the outer diameter of the solid or concentric-stranded class B conductor. For stranded conductor, the compress-stranding may be available to reduce the conductor diameter

600V XHHW-2

600V Flame-Retardant XLPE Insulated Wire



600V XHHW-2

Application

Type XHHW-2 listed by UL is suitable for use in wet and dry locations at 90 °C. This wire is generally used for distribution and branch circuit wiring in commercial and residential applications with conduit as specified in the National Electrical Code.

Standard

UL44 Thermoset insulated wires and cables

Construction

Conductor Solid or stranded annealed copper
Insulation Flame-retardant, heat-, abrasion-and moisture-resistant crosslinked polyethylene(FR-XLPE)

Color

The standard color is black, when required for a particular application, other colors are available

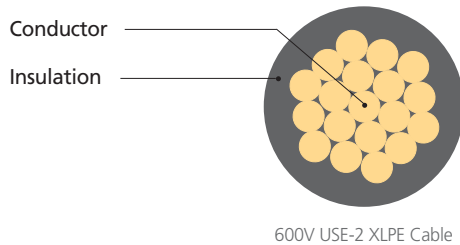
Conductor					Insulation Thickness				Apporx. Overall Diameter		Apporx. weight		Ampacity	Nom.DC Conduct or Resistance (20 °C)
Size		No.of Strands	Diameter										(75 °C) dry and wet location	
AWG or KCM	mm ²		mm	mils	mm	mils	mm	mils	mm	mils	kg/km	lb/1000ft		Ω/km
14	2.08	1	1.63	65.2	1.14	45.6	1.02	40.8	4.2	168	32	70.55	15	8.45
14	2.08	7	1.85	74	1.14	45.6	1.02	40.8	4.4	176	35	77.16	15	8.62
12	3.31	1	2.05	82	1.14	45.6	1.02	40.8	4.6	184	44	97.00	20	5.31
12	3.31	7	2.32	92.8	1.14	45.6	1.02	40.8	4.8	192	49	108.03	20	5.43
10	5.26	1	2.59	103.6	1.14	45.6	1.02	40.8	5.1	204	64	141.10	30	3.343
10	5.26	7	2.95	118	1.14	45.6	1.02	40.8	5.4	216	71	156.53	30	3.409
8	8.37	7	3.71	148.4	1.52	60.8	1.37	54.8	7	280	114	251.33	55	2.144
6	13.3	7	4.67	186.8	1.52	60.8	1.37	54.8	8.2	328	168	370.38	55	1.348
4	21.2	7	5.89	235.6	1.52	60.8	1.37	54.8	9.5	380	249	548.95	75	0.8481
3	26.7	7	6.02	240.8	1.52	60.8	1.37	54.8	10.2	408	305	672.41	95	0.6727
2	33.6	7	6.81	272.4	1.52	60.8	1.37	54.8	11	440	376	828.94	110	0.5335
1	42.4	19	7.59	303.6	2.03	81.2	1.83	73.2	13	520	490	1080.27	130	0.423
1/0	53.5	19	8.53	341.2	2.03	81.2	1.83	73.2	14.2	568	592	1305.14	150	0.3354
2/0	67.4	19	9.55	382	2.03	81.2	1.83	73.2	15.5	620	734	1618.19	170	0.266
3/0	85	19	10.74	429.6	2.03	81.2	1.83	73.2	16.5	660	905	1995.18	195	0.211
4/0	107	19	12.07	482.8	2.03	81.2	1.83	73.2	17.5	700	1120	2469.18	225	0.1673
250	127	37	13.21	528.4	2.41	96.4	2.18	87.2	19.5	780	1345	2965.22	260	0.1416
300	152	37	14.48	579.2	2.41	96.4	2.18	87.2	21	840	1595	3516.37	290	0.118
350	177	37	15.65	626	2.41	96.4	2.18	87.2	22.5	900	1836	4047.69	320	0.1011
400	203	37	16.74	669.6	2.41	96.4	2.18	87.2	23.5	940	2080	4585.62	350	0.08851
500	253	37	18.69	747.6	2.41	96.4	2.18	87.2	25.5	1020	2558	5639.43	380	0.0708
750	380	61	23.06	922.4	2.79	111.6	2.51	100.4	31.5	1260	3940	8686.21	475	0.04721
1000	507	61	26.92	1076.8	2.79	111.6	2.51	100.4	35.4	1416	5157	11369.24	535	0.0354

* Per Table 310-16 of the National Electrical Code, 2005 edition.

* Conditions : Not more than three conductors in raceway or cable or earth(directly buried), based on ambient temperature of 30 °C

600V USE-2 XLPE Cable

600V Flame-Retardant XLPE Insulated Wire



Application

Type USE-2 listed by UL is suitable for use in wet and dry locations at 90 °C.

This wire is generally used for distribution and branch circuit wiring in commercial and residential applications with conduit as specified in the National Electrical Code.

Standard

UL854 Service-Entrance Cables
UL44 Thermoset insulated wires and cables

Construction

Conductor Solid or stranded annealed copper
Separator A separator may be applied on stranded conductor
Insulation Flame-retardant, heat-, abrasion-and moisture-resistant crosslinked polyethylene(FR-XLPE)

Color

The standard color is black, when required for a particular application, other colors are available

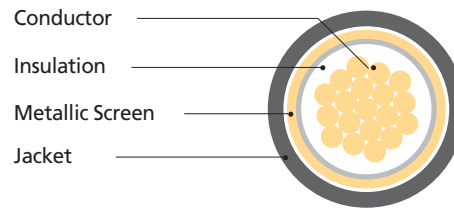
Conductor					Insulation Thickness				Apporx. Overall Diameter		Apporx. weight		Ampacity	Nom. DC Conduct or Resistance (20°C)
Size		No.of Strands	Diameter										(75 °C) dry and wet location	
			AWG or KCM	mm ²	mm	mils	mm	mils	mm	mils	kg/km	lb/1000ft		
14	2.08	1	1.63	65.2	1.14	45.6	1.02	40.8	4.2	168	32	70.55	15	8.45
14	2.08	7	1.85	74	1.14	45.6	1.02	40.8	4.4	176	35	77.16	15	8.62
12	3.31	1	2.05	82	1.14	45.6	1.02	40.8	4.6	184	44	97.00	20	5.31
12	3.31	7	2.32	92.8	1.14	45.6	1.02	40.8	4.8	192	49	108.03	20	5.43
10	5.26	1	2.59	103.6	1.14	45.6	1.02	40.8	5.1	204	64	141.10	30	3.343
10	5.26	7	2.95	118	1.14	45.6	1.02	40.8	5.4	216	71	156.53	30	3.409
8	8.37	7	3.71	148.4	1.52	60.8	1.37	54.8	7	280	114	251.33	55	2.144
6	13.3	7	4.67	186.8	1.52	60.8	1.37	54.8	8.2	328	168	370.38	55	1.348
4	21.2	7	5.89	235.6	1.52	60.8	1.37	54.8	9.5	380	249	548.95	75	0.8481
3	26.7	7	6.02	240.8	1.52	60.8	1.37	54.8	10.2	408	305	672.41	95	0.6727
2	33.6	7	6.81	272.4	1.52	60.8	1.37	54.8	11	440	376	828.94	110	0.5335
1	42.4	19	7.59	303.6	2.03	81.2	1.83	73.2	13	520	490	1080.27	130	0.423
1/0	53.5	19	8.53	341.2	2.03	81.2	1.83	73.2	14.2	568	592	1305.14	150	0.3354
2/0	67.4	19	9.55	382	2.03	81.2	1.83	73.2	15.5	620	734	1618.19	170	0.266
3/0	85	19	10.74	429.6	2.03	81.2	1.83	73.2	16.5	660	905	1995.18	195	0.211
4/0	107	19	12.07	482.8	2.03	81.2	1.83	73.2	17.5	700	1120	2469.18	225	0.1673
250	127	37	13.21	528.4	2.41	96.4	2.18	87.2	19.5	780	1345	2965.22	260	0.1416
300	152	37	14.48	579.2	2.41	96.4	2.18	87.2	21	840	1595	3516.37	290	0.118
350	177	37	15.65	626	2.41	96.4	2.18	87.2	22.5	900	1836	4047.69	320	0.1011
400	203	37	16.74	669.6	2.41	96.4	2.18	87.2	23.5	940	2080	4585.62	350	0.08851
500	253	37	18.69	747.6	2.41	96.4	2.18	87.2	25.5	1020	2558	5639.43	380	0.0708
750	380	61	23.06	922.4	2.79	111.6	2.51	100.4	31.5	1260	3940	8686.21	475	0.04721
1000	507	61	26.92	1076.8	2.79	111.6	2.51	100.4	35.4	1416	5157	11369.24	535	0.0354

※Per Table 310-16 of the National Electrical Code, 2005 edition.

※Conditions : Not more than three conductors in raceway or cable or earth(directly buried), based on ambient temperature of 30°C

15kV URD Cable

15kV Copper Conductor Tree-retardant XLPE Insulated, Concentric neutral conductor with water blocking tapes, and PVC or PE jacketed power cable



15kV URD Cable

Application

Type URD Cable is used for 15kV multi-grounded power and distribution circuits in industrial and commercial installation. It may be installed on conduit, duct, tray or directly buried. Safe from ingress of humidity.

Standard

UL1072
ANSI / ICEA S-94-649

Construction

Conductor Circular compacted stranded filled with water blocking tapes plain annealed copper.
Insulation 90 °C, extruded cross-linked polyethylene with semi conductive inner and outer screen.
Neutral Conductor Annealed copper tape with water-blocking tapes.
Sheath Black PVC or PE.

15kV XLPE power (100% insulation)

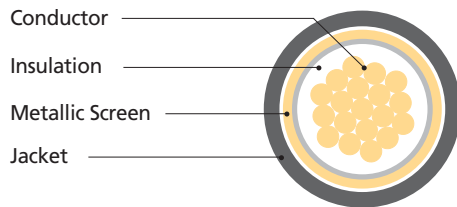
Conductor			conductor shield thickness (min)	Thickness of Insulation		insulation shield thickness (min)	Thickness Of Outer sheath (min)	Overall Diameter (approx.)	Max. DC Conductor Resistance at 20 °C	Approx. Cable weight
Size	Shape	Approx. Dia.		Min.	Mix.					
AWG/MCM	-	mm	mm	mm		mm	mm	mm	Ω/km	kg/km
2	Compacted	6.81	0.15	4.19	5.21	0.61	1.78	24	0.5335	790
1		7.59	0.15	4.19	5.21	0.61	1.78	25	0.4230	900
1/0		8.53	0.15	4.19	5.21	0.61	1.78	26	0.3354	1030
2/0		9.55	0.15	4.19	5.21	0.61	1.78	27	0.266	1190
3/0		10.74	0.15	4.19	5.21	0.61	1.78	28	0.2110	1390
4/0		12.07	0.15	4.19	5.21	0.61	1.78	29	0.1673	1630
250		13.21	0.15	4.19	5.21	0.61	1.78	30	0.1416	1850
300		14.48	0.15	4.19	5.21	0.61	1.78	32	0.1180	2110
350		15.65	0.15	4.19	5.21	0.61	1.78	33	0.1011	2380
400		16.74	0.15	4.19	5.21	0.81	1.78	34	0.08851	2670
500		18.69	0.15	4.19	5.21	0.81	1.78	36	0.0708	3190
600		20.65	0.15	4.19	5.21	0.81	1.78	38	0.05900	3730
750		23.06	0.15	4.19	5.21	0.81	1.78	41	0.04721	4490
1000		26.92	0.15	4.19	5.21	0.81	2.54	46	0.03540	5960

15kV XLPE power (133% insulation)

Conductor			conductor shield thickness (min)	Thickness of Insulation		insulation shield thickness (min)	Thickness Of Outer sheath (min)	Overall Diameter (approx.)	Max. DC Conductor Resistance at 20 °C	Approx. Cable weight
Size	Shape	Approx. Dia.		Min.	Mix.					
AWG/MCM	-	mm	mm	mm		mm	mm	mm	Ω/km	kg/km
2	Compacted	6.81	0.15	5.33	6.35	0.61	1.78	26	0.5335	890
1		7.59	0.15	5.33	6.35	0.61	1.78	27	0.4230	1000
1/0		8.53	0.15	5.33	6.35	0.61	1.78	28	0.3354	1130
2/0		9.55	0.15	5.33	6.35	0.61	1.78	29	0.266	1290
3/0		10.74	0.15	5.33	6.35	0.61	1.78	30	0.2110	1490
4/0		12.07	0.15	5.33	6.35	0.61	1.78	32	0.1673	1740
250		13.21	0.15	5.33	6.35	0.61	1.78	33	0.1416	1960
300		14.48	0.15	5.33	6.35	0.81	1.78	34	0.1180	2260
350		15.65	0.15	5.33	6.35	0.81	1.78	36	0.1011	2520
400		16.74	0.15	5.33	6.35	0.81	1.78	37	0.08851	2800
500		18.69	0.15	5.33	6.35	0.81	1.78	39	0.0708	3320
600		20.65	0.15	5.33	6.35	0.81	1.78	41	0.05900	3860
750		23.06	0.15	5.33	6.35	0.81	1.78	43	0.04721	4640
1000		26.92	0.15	5.33	6.35	0.81	2.54	48	0.03540	6130

25kV URD Cable

25kV Copper Conductor Tree-retardant XLPE Insulated, Concentric neutral conductor with water blocking tapes, and PVC or PE jacketed power cable



25kV URD Cable



Application

Type URD Cable is used for 25kV multi-grounded power and distribution circuits in industrial and commercial installation. It may be installed on conduit, duct, tray or directly buried. Safe from ingress of humidity.

Standard

UL1072
ANSI / ICEA S-94-649

Construction

Conductor Circular compacted stranded filled with water blocking tapes plain annealed copper
Insulation 90°C, extruded cross-linked polyethylene with semi conductive inner and outer screen
Neutral Conductor Annealed copper tape with water-blocking tapes
Sheath Black PVC or PE

25kV XLPE power (100% insulation)

Conductor			conductor shield thickness (min)	Thickness of Insulation		insulation shield thickness (min)	Thickness Of Outer sheath (min)	Overall Diameter (approx.)	Max. DC Conductor Resistance at 20 °C	Approx. Cable weight
Size	Shape	Approx. Dia.		Min.	Mix.					
AWG/MCM	-	mm	mm	mm		mm	mm	mm	Ω/km	kg/km
1	Compacted	7.59	0.15	6.22	7.37	0.61	1.78	29	0.4230	1090
1/0		8.53	0.15	6.22	7.37	0.61	1.78	30	0.3354	1230
2/0		9.55	0.15	6.22	7.37	0.61	1.78	31	0.266	1390
3/0		10.74	0.15	6.22	7.37	0.61	1.78	32	0.2110	1590
4/0		12.07	0.15	6.22	7.37	0.61	1.78	34	0.1673	1840
250		13.21	0.15	6.22	7.37	0.81	1.78	35	0.1416	2100
300		14.48	0.15	6.22	7.37	0.81	1.78	36	0.1180	2370
350		15.65	0.15	6.22	7.37	0.81	1.78	38	0.1011	2640
400		16.74	0.15	6.22	7.37	0.81	1.78	39	0.08851	2920
500		18.69	0.15	6.22	7.37	0.81	1.78	41	0.0708	3450
600		20.65	0.15	6.22	7.37	0.81	1.78	43	0.05900	4000
750		23.06	0.15	6.22	7.37	0.81	2.54	47	0.04721	4970
1000		26.92	0.15	6.22	7.37	1.02	2.54	51	0.03540	6330

25kV XLPE power (133% insulation)

Conductor			conductor shield thickness (min)	Thickness of Insulation		insulation shield thickness (min)	Thickness Of Outer sheath (min)	Overall Diameter (approx.)	Max. DC Conductor Resistance at 20 °C	Approx. Cable weight
Size	Shape	Approx. Dia.		Min.	Mix.					
AWG/MCM	-	mm	mm	mm		mm	mm	mm	Ω/km	kg/km
1	Compacted	7.59	0.15	8.38	9.53	0.61	1.78	33	0.4230	1320
1/0		8.53	0.15	8.38	9.53	0.81	1.78	35	0.3354	1490
2/0		9.55	0.15	8.38	9.53	0.81	1.78	36	0.266	1660
3/0		10.74	0.15	8.38	9.53	0.81	1.78	37	0.2110	1870
4/0		12.07	0.15	8.38	9.53	0.81	1.78	38	0.1673	2130
250		13.21	0.15	8.38	9.53	0.81	1.78	39	0.1416	2360
300		14.48	0.15	8.38	9.53	0.81	1.78	41	0.1180	2640
350		15.65	0.15	8.38	9.53	0.81	1.78	42	0.1011	2920
400		16.74	0.15	8.38	9.53	0.81	1.78	43	0.08851	3210
500		18.69	0.15	8.38	9.53	0.81	2.54	47	0.0708	3940
600		20.65	0.15	8.38	9.53	0.81	2.54	49	0.05900	4510
750		23.06	0.15	8.38	9.53	1.02	2.54	51	0.04721	5360
1000		26.92	0.15	8.38	9.53	1.02	2.54	55	0.03540	6700

Quality Certificates

UL ONLINE CERTIFICATIONS DIRECTORY

PITY.E331907
Medium-voltage Power Cable

Page Bottom

Medium-voltage Power Cable

See General Information for Medium-voltage Power Cable

LS CABLE LTD
GUMS PLANT
180 KONGJIAN-DONG
GUMS-SHIL, GYEONGSANGBUK-DO 730-708 REPUBLIC OF KOREA

E331907

Type MV-90

Last Updated on 2009-11-30

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PITY.GuideInfo
Medium-voltage Power Cable

View Listing Page Bottom

Medium-voltage Power Cable

Guide Information for Electrical Equipment for Use in Ordinary Locations

GENERAL

This category covers medium-voltage cable rated 2400 to 35,000 V intended for use and installation in accordance with Article 328 of ANSI/NFPA 70, "National Electrical Code" (NEC).

The cable is single or multiconductor, aluminum or copper, with solid extruded dielectric insulation and may have an extruded jacket, metallic covering or combination of both over the single conductors or over the assembled conductors in a multiconductor power cable.

All insulated conductors rated higher than 2400 V have electrostatic shielding. Cable rated 2400 V is nonshielded.

Nonshielded cable is intended for use where conditions of maintenance and supervision ensure that only competent individuals service and have access to the installation.

PRODUCT MARKINGS

Shielded cable is marked "MV-90" or "MV-100" and is suitable for use in wet or dry locations at 90 or 100°C.

Nonshielded cable is marked either "MV-90" indicating suitability for use in wet or dry locations at 90°C maximum, or "MV-90 Dry Locations Only" indicating suitability for use only in dry locations at 90°C maximum.

Cable marked "OH Resistant 1" or "OH Resistant 2" is suitable for exposure to mineral oil at 60°C or 75°C, respectively.

Cable marked "Sunlight Resistant" may be exposed to the direct rays of the sun.

Cable intended for installation in cable trays in accordance with Article 392 of the NEC is marked "For Use in Cable Trays" (or "For CT Use").

Cable with aluminum conductors is marked with the word "Aluminum" (or "AL").

The cable is marked with the conductor size, voltage rating and insulation level (100% or 133%).

ADDITIONAL INFORMATION

For additional information, see Electrical Equipment for Use in Ordinary Locations (UL62).

REQUIREMENTS

The basic standard used to investigate products in this category is **ANSI/UL 1072, "Medium-Voltage Power Cables."**

UL MARK

The Listing Mark of Underwriters Laboratories Inc. is the product is the only method provided by UL to identify products manufactured under its Listing and Follow-Up Service. The Listing Mark for these products includes the UL symbol (as duplicated in the Introduction of this Directory) together with the word "LISTED," a control number, and the product name "Medium-Voltage Cable."

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*<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.html>





ONLINE CERTIFICATIONS DIRECTORY

TYLZ.GuideInfo Service-entrance Cable

[View Listing](#)

[Page Bottom](#)

[Service Cable] Service-entrance Cable

[See General Information for Service Cable](#)

GENERAL

This category covers service-entrance cable designated Type SE and Type USE for use in accordance with Article 338 of ANSI/NFPA 70, "National Electrical Code" (NEC).

Service-entrance cable, rated 600 V, is listed in sizes 14 AWG and larger for copper, and 12 AWG and larger for aluminum or copper-clad aluminum.

The cable is designated as follows:

Type SE — Indicates cable for aboveground installation. Both the individual insulated conductors and the outer jacket or finish of Type SE are suitable for use where exposed to sun. Type SE cable contains Type RHW-2, RHW-2, XHHW-2, THHN or THHW-2 conductors. Maximum size is 4/0 AWG copper or 350 kcmil aluminum or copper-clad aluminum.

Types USE and USE-2 — Indicates cable for underground installation including direct burial in the earth. Maximum size is 2000 kcmil. Cable in sizes 4/0 AWG copper, aluminum or copper-clad aluminum and smaller having all conductors insulated is suitable for all of the underground uses for which Type UF cable is permitted by the NEC. Multiconductor Type USE cable contains conductors with insulation equivalent to Type UF. Multiconductor Type USE-2 contains insulation equivalent to Type UF or RHHW-2 and is rated 90°C wet or dry. Single- and multiconductor Types USE and USE-2 are not suitable for use in premises. Single- and multiconductor Types USE and USE-2 are not suitable aboveground except to terminate at the service equipment or interior equipment. Both the insulation and the outer covering, when used, on single- and multiconductor Types USE and USE-2, are suitable for use where exposed to sun.

Submersible Water Pump Cable — Indicates a multiconductor cable in which 2, 3 or 4 single-conductor Type USE or USE-2 cables are provided in a flat or twisted assembly. The cable is listed in sizes 14 AWG to 4/0 AWG insulated, copper, and 12 AWG to 4/0 AWG insulated, aluminum or copper-clad aluminum. The cable is labeled "For use within the wet casing for wiring deep-well water pumps where the cable is not subject to mechanical handling caused by frequent servicing of pump units." The insulation may also be surface marked "Pump Cable." The cable may be directly buried in the earth in conjunction with this use.

For termination information, see Electrical Equipment for Use in Ordinary Locations (MELD).

Based upon tests which have been made involving the maximum heating that can be produced, an uninsulated conductor employed in a service cable assembly is considered to have the same current-carrying capacity as the insulated conductors even though it may be smaller in size.

PRODUCT MARKINGS

The Type designation of the conductors may be marked on the surface of the cable. When used, this marking indicates that the temperature rating of the cable corresponds to the temperature rating of the conductors. When this marking does not appear, the temperature rating of the cable is 75°C.

Cable acceptable for installation in cable trays is so marked.

Cable may employ copper, aluminum, or copper-clad aluminum conductors. Cable with copper-clad aluminum conductors is surface printed "AL (CU-CLAD)" or "Cu-Clad AL." Cable with aluminum conductors is surface printed "AL."

Cable employing compact-stranded copper conductors is so identified directly following the conductor size, whenever it appears (surface, tag, carton or reel) by "compact copper." The abbreviations "CMPT" and "CU" may be used for compact and copper, respectively.

Tags, reels and cartons for products employing compact-stranded copper conductors have the marking: "Terminate with connectors identified for use with compact-stranded copper conductors."

ADDITIONAL INFORMATION

For additional information, see Electrical Equipment for Use in Ordinary Locations (MELD).

REQUIREMENTS

The basic standard used to investigate products in this category is [ANSI/UL 854](#), "Service-Entrance Cables."

UL MARK

The UL symbol on the product and the Listing Mark of Underwriters Laboratories Inc. on the attached tag, coil, reel or smallest unit container in which the product is packaged is the only method provided by UL to identify products manufactured under its Listing and Labeling Service. The Listing Mark for these products includes the UL symbol (as illustrated in the introduction of this directory) together with the word "LISTED," a



ONLINE CERTIFICATIONS DIRECTORY

ZLGR.GuideInfo Thermoplastic-insulated Wire

[View Listing](#)

[Page Bottom](#)

[Wire] Thermoplastic-insulated Wire

[See General Information for Wire](#)

USE

This category covers thermoplastic-insulated wire for use in accordance with Article 310 of ANSI/NFPA 70, "National Electrical Code."

PRODUCT TYPES

Thermoplastic-insulated wire is rated 600 V and is designated as follows:

TW — Indicates a single conductor having flame-retardant, moisture-resistant thermoplastic insulation. The wire is rated 90°C wet or dry.

THHN — Indicates a single conductor having flame-retardant and heat-resistant thermoplastic insulation with a jacket of extruded nylon or equivalent material. The wire is rated 90°C dry only.

THW — Indicates a single conductor having flame-retardant, moisture- and heat-resistant thermoplastic insulation. The wire is rated 75°C wet or dry.

THW-2 — Same as THW except that the wire is rated 90°C wet or dry.

THHW — Indicates a single conductor having flame-retardant, moisture- and heat-resistant thermoplastic insulation. The wire is rated 90°C dry and 75°C wet.

THWN — Indicates a single conductor having flame-retardant, moisture- and heat-resistant thermoplastic insulation with a jacket of extruded nylon or equivalent material. The wire is rated 75°C wet or dry. THWN wire is suitable for exposure to mineral oil and to liquid gasoline and gasoline vapors of ordinary ambient temperature is marked "Gasoline and Oil Resistant." It is suitable for exposure to mineral oil at 60°C, or "Gasoline and Oil Resistant." If the compound is suitable for exposure to mineral oil at 75°C, Gasoline resistant wire has been tested at 230°C when immersed in gasoline. It is considered inherently resistant to gasoline vapors within the limits of the temperature rating.

THWN-2 — Same as THWN except that the wire is rated 90°C wet or dry.

PEP — Indicates a single copper conductor having flame-retardant and heat-resistant thermoplastic (fluorinated ethylene propylene) insulation. Type PEP wire is suitable for use at 90°C and lower temperatures in dry locations. It is also suitable for use in dry locations at 200°C and lower temperatures for special applications.

PEPB — Indicates a single copper conductor having flame-retardant and heat-resistant thermoplastic (fluorinated ethylene propylene) insulation with a glass braid. Type PEPB wire is suitable for use at 90°C and lower temperatures in dry locations. It is also suitable for use in dry locations at 200°C and lower temperatures for special applications.

PFA — Indicates a single copper conductor having flame-retardant and heat-resistant thermoplastic (perfluoralkoxy) insulation. Type PFA wire is suitable for use at 90°C and lower temperatures in dry locations. It is also suitable for use in dry locations at 200°C and lower for special applications.

PPAF — Indicates a single, nickel or nickel-coated copper conductor having flame-retardant and heat-resistant thermoplastic (perfluoralkoxy) insulation. The PPAF is suitable for use at 250°C and lower temperatures only for leads within apparatus or within raceways connected to apparatus, in dry locations only.

PFE — Indicates a single, nickel-coated copper or nickel base alloy conductor having flame-retardant and heat-resistant thermoplastic (perfluoralkoxy) insulation. Type PFE wire is suitable for use at 250°C and lower temperatures in dry locations, in leads within apparatus or within raceways connected to apparatus or as open wiring.

Z — Indicates a single copper conductor having flame-retardant and heat-resistant thermoplastic (ethylene tetrafluoroethylene) insulation. Type Z wire is suitable for use at 90°C and lower temperatures in dry locations. It is also suitable for use in dry locations at 150°C and lower temperatures for special applications.

ZW — Indicates a single copper conductor having flame-retardant and heat-resistant thermoplastic (ethylene tetrafluoroethylene) insulation. Type ZW wire is suitable for use in dry locations at 90°C or wet locations at 75°C. It is also suitable for use in dry locations at 150°C and lower temperatures for special applications.

ZW-2 — Same as ZW except that the wire is rated 90°C wet or dry.

TBS — Indicates a single conductor switchboard wire having thermoplastic insulation and a flame-retardant nonmetallic covering. Type TBS is suitable for use at 90°C and lower temperatures in dry locations.



ONLINE CERTIFICATIONS DIRECTORY

ZKST.GuideInfo Thermoset-insulated Wire

[View Listing](#)

[Page Bottom](#)

[Wire] Thermoset-insulated Wire

[See General Information for Wire](#)

GENERAL

This category covers thermoset-insulated wire and cable (indicated below) which is flame-retardant and rated 600 V, except for Types RHW, RHW-2 and RHHW-2 which may be rated 2000 V. The voltage rating is marked on the outer surface of the wire or cable.

PRODUCT MARKINGS

RHW — Indicates a single conductor having a thermoset insulation, with or without a nonmetallic covering, rated 75°C dry, 75°C wet.

RHW-2 — Indicates a single conductor with the same description as Type RHW, except that it is rated 90°C dry, 90°C wet.

RHH — Indicates a single conductor with the same description as Type RHW, except that it is rated 90°C dry only.

XHH — Indicates a single conductor having a cross-linked synthetic polymer insulation with no overall covering provided, rated 90°C dry.

XHHW — Indicates a single conductor with the same description as Type XHH, except that it is rated 90°C dry, 75°C wet.

XHHW-2 — Indicates a single conductor with the same description as Type XHH, except that it is rated 90°C dry, 90°C wet.

SA — Indicates a single conductor having thermosetting silicone rubber insulation and a nonmetallic covering rated 90°C dry, general use, 200°C dry, special applications.

SZ — Indicates a single conductor having thermosetting insulation with no overall covering provided rated 90°C dry, for switchboard wiring only.

D — Used as a suffix indicating a twin wire having two insulated conductors laid parallel under an outer nonmetallic covering.

M — Used as a suffix indicating a cable having two or more insulated single conductors twisted together under an outer nonmetallic covering.

This wire, in sizes mentioned below, may employ copper, aluminum, or copper-clad aluminum conductors. Wire with copper-clad aluminum conductors is surface printed "Cu-Clad AL" or "AL (CU-CLAD)." Wire with aluminum conductors is surface printed "AL."

In addition to the required AWG or kcmil size, the metric equivalent may be marked on the wire, e.g., "5 AWG (13.3 MM²)" or "13.3 MM² (5 AWG)."

Types RHW, RHW-2, XHH, XHHW, XHHW-2 and SA are listed in sizes 14 AWG through 2000 kcmil copper, and 12 AWG through 2000 kcmil aluminum or copper-clad aluminum. Type SZ is listed in sizes 14 through 4/0 AWG copper, and 12 through 4/0 AWG aluminum or copper-clad aluminum.

Wire and cable employing compact-stranded copper conductors is so identified directly following the conductor size wherever it appears (surface, tag, carton or reel) by "compact copper." The abbreviations "CMPT" and "CU" may be used for compact and copper, respectively.

Tags, reels and cartons for products employing compact-stranded copper conductors have the marking: "Terminate with connectors identified for use with compact-stranded copper conductors."

Wire bearing multiple type designations is suitable for the temperature associated with each use. For example, a wire marked "RHH or RHW" is suitable for 90°C in dry locations, and 75°C in wet locations.

Wire marked "gasoline resistant" has been tested at 230°C when immersed in gasoline. Wire marked "Oil Resistant I" and "Oil Resistant II" has been tested for immersion in mineral oil at 60°C and 75°C, respectively.

Wire and cable marked "Cable Tray Use" complies with a Vertical Tray Flame Test. Wire and cable marked "Sunlight Resistant" complies with an artificial weathering test. The "Cable Tray Use" marking, with or without the "Sunlight Resistant" marking, pertains to single conductor sizes 4 through 14 AWG for grounding conductors only, single conductor sizes 1/0 AWG and larger, and all sizes of multiconductor Types RHW, RHW-2, XHH, XHHW and XHHW-2. Wire Types RHW, RHW-2, XHHW and XHHW-2 intended to be installed as a messenger may be marked "Sunlight Resistant" in all sizes.

Wire marked "VW-1" complies with a Vertical Flame Test; all others comply with a Horizontal Flame Test.

Wire that complies with the Limited Smoke Test requirements specified in [UL 1685](#), "Vertical-Tray Fire Propagation and Smoke-Release Test for Electrical and Optical-Fiber Cables," is surface marked with the suffix "LS."

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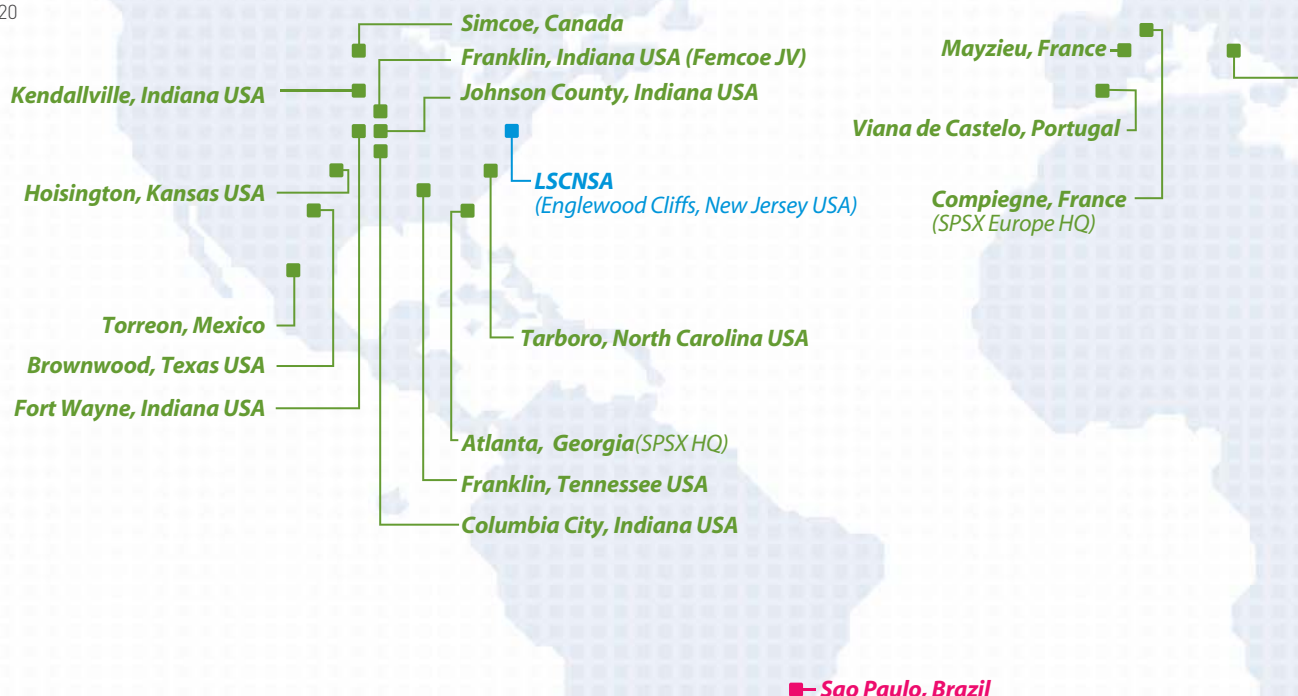
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