



Date: \_\_\_\_\_ Type: \_\_\_\_\_

Firm Name: \_\_\_\_\_

Project: \_\_\_\_\_

## SkyRibbon

### Essential White Linear Direct Powercore, 3500 K

Recessed linear interior LED fixture for direct-view and general illumination applications with solid white light

SkyRibbon Essential White Linear Direct Powercore is a recessed linear interior LED fixture offering high-quality, dimmable solid white light in four color temperatures, ranging from warm 2700 K to cool 4000 K. Brilliant light output and industry-leading color consistency make fixtures ideal for a variety of general illumination applications. Multiple housing options accommodate a number of installation methods.

- Four color temperatures — Solid white light LED modules available in 2700 K, 3000 K, 3500 K, and 4000 K color temperatures, supporting a broad selection of design objectives.
- High lumen output — Fixture produces white light output equivalent to a single T5 linear recessed fixture.
- Multiple housing options for installation and mounting flexibility — T-Bar, Slotted-T, Flanged, and Flangeless housings support numerous installation methods and appearances.
- Flexible configuration — Available in 1 ft and 4 ft fixture lengths with multiple jumper cable, corner terminal, and connector options to accommodate nearly any layout.

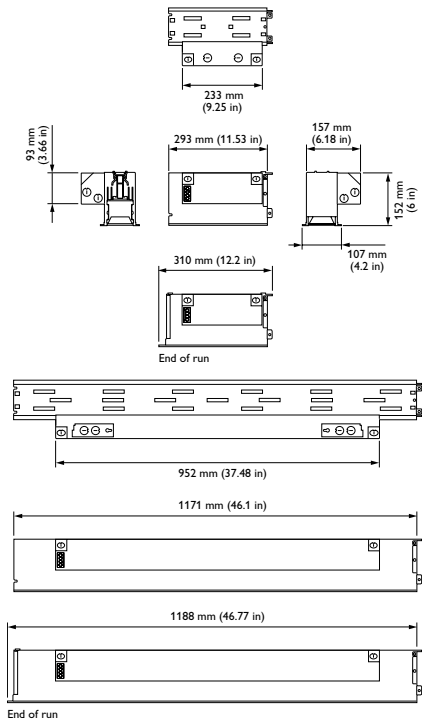
- Integrates patented Powercore technology — Powercore rapidly, efficiently, and accurately controls power output to fixtures directly from line voltage, eliminating the need for an external power supply.
- Dimming capability — Patented DIMand technology offers smooth dimming capability with selected commercially available reverse-phase ELV-type dimmers.
- Optibin advanced binning algorithm — Exceeds the recognized standards for color quality to guarantee uniformity and color consistency across LED sources, fixtures, and manufacturing runs.
- Three voltage options — Available 120 VAC, 220 – 240 VAC, and 277 VAC fixtures ensure consistent operation in a number of major international regions.

For detailed product information, please refer to SkyRibbon Essential White Linear Direct Powercore Product Guide at [www.philipscolorkinetics.com/lis/ew/skyribbon-linear-direct/](http://www.philipscolorkinetics.com/lis/ew/skyribbon-linear-direct/)

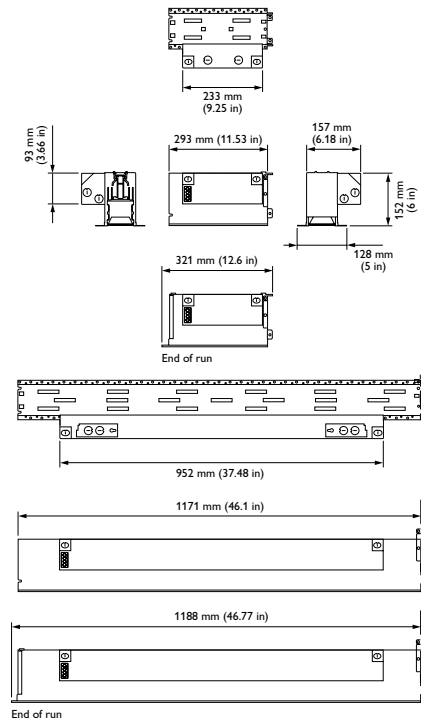
# PHILIPS

# CE Dimensional Diagrams, 220–240 VAC

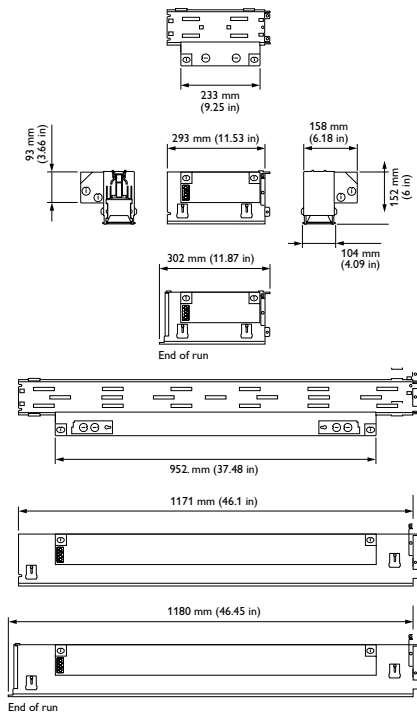
## SkyRibbon Linear Direct Powercore Flanged Housing



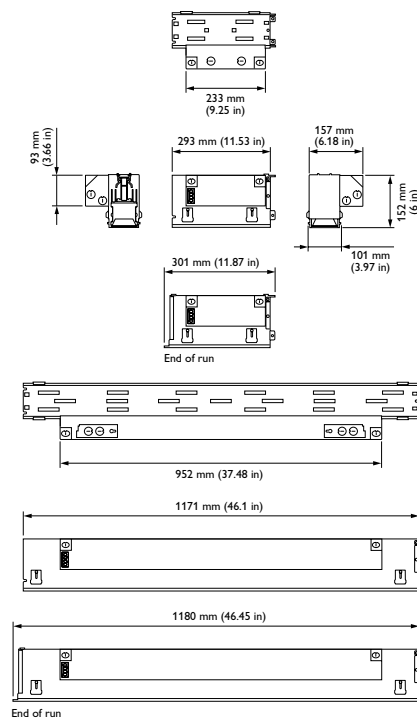
## SkyRibbon Linear Direct Powercore Flangeless Housing



## SkyRibbon Linear Direct Powercore T-Bar Housing

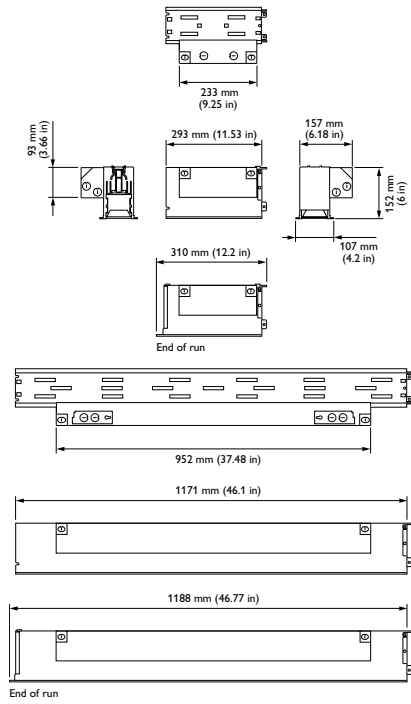


## SkyRibbon Linear Direct Powercore Slotted-T Housing

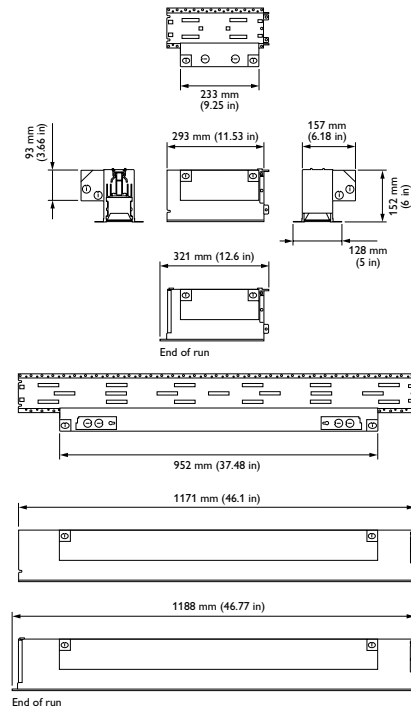


# UL Dimensional Diagrams, 120 / 277 VAC

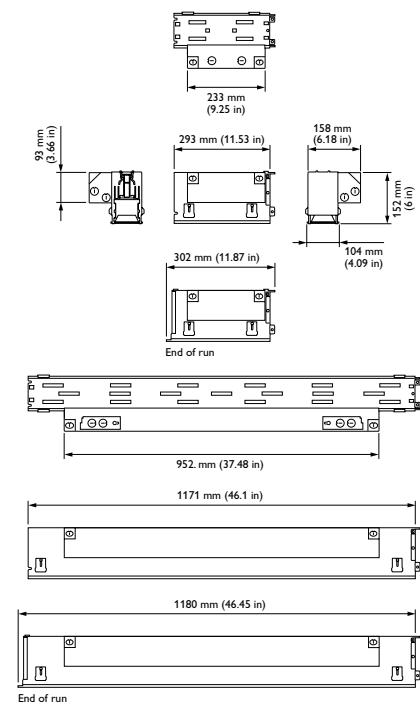
## SkyRibbon Linear Direct Powercore Flanged Housing



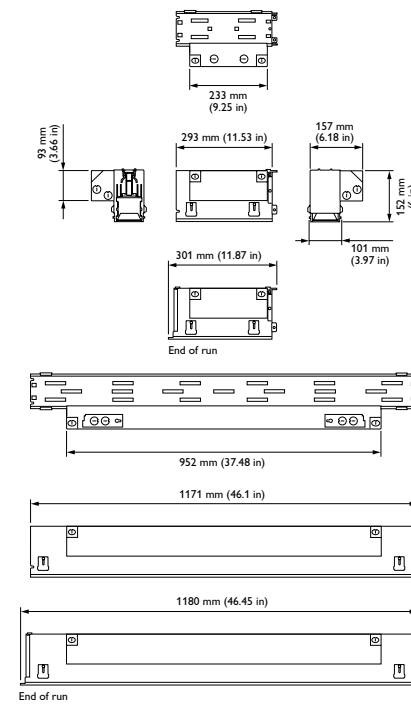
## SkyRibbon Linear Direct Powercore Flangeless Housing



## SkyRibbon Linear Direct Powercore T-Bar Housing



## SkyRibbon Linear Direct Powercore Slotted-T Housing

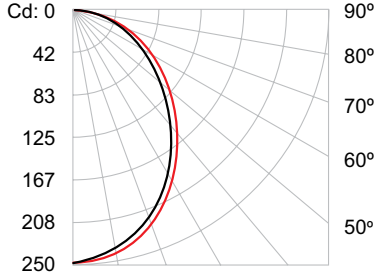


# Photometrics / SkyRibbon Essential White Linear Direct Powercore, 3500 K, 100° x 100° spread lens, 0.3 m (1 ft)

Photometric data is based on test results from an independent NIST traceable testing lab. IES data is available at [www.philipscolorkinetics.com/support/ies](http://www.philipscolorkinetics.com/support/ies).

Lumens	Efficacy
656	49.1 lm / W

## Polar Candela Distribution



VA: 0° 10° 20° 30° 40°

■ - 0° H    ■ - 90° H

	0	25	45	70	90
0	244	244	244	244	244
5	242	242	242	242	242
15	228	229	230	231	231
25	204	205	207	210	211
35	172	174	177	181	182
45	137	140	143	147	148
55	102	104	108	111	113
65	69	70	73	77	78
75	38	39	41	44	45
85	4	6	9	13	14
90	0	0	1	2	2

## Illuminance at Distance

	Center Beam fc	Beam Width
4 ft	15 fc	9.5 ft 10.4 ft
8 ft	4 fc	19.0 ft 20.7 ft
12 ft	2 fc	28.5 ft 31.1 ft
16 ft	1 fc	38.0 ft 41.5 ft
20 ft	1 fc	47.4 ft 51.9 ft
24 ft	0 fc	56.9 ft 62.2 ft

15.6 ft (4.8 m)    ■ Vert. Spread: 99.7°  
 1 fc maximum distance    ■ Horiz. Spread: 104.7°

## Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80		70		60		50		30		10		0		
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	0
0	119	119	119	119	116	116	116	100	111	111	111	106	106	106	100
1	109	104	100	96	106	101	98	84	97	94	91	93	91	88	89
2	99	91	84	78	96	89	82	71	85	80	75	82	77	73	79
3	90	80	72	65	88	78	71	60	75	69	63	72	67	62	70
4	83	71	62	55	80	69	61	52	67	60	54	64	58	53	62
5	76	63	54	48	74	62	54	46	60	53	47	58	52	46	56
6	70	57	48	42	68	56	48	40	54	47	41	53	46	41	51
7	65	52	43	37	64	51	43	36	50	42	37	48	41	36	47
8	61	47	39	33	59	47	39	32	45	38	33	44	37	33	43
9	57	44	35	30	56	43	35	29	42	35	30	41	34	30	40
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37

## Zonal Lumen

Zone	Lumens	% Fixture
0 - 60	501.3	78.8 %
60 - 90	131.9	20.7 %
0 - 90	633.2	99.5 %

For lux multiply fc by 10.7

# Specifications / SkyRibbon Essential White Linear Direct Powercore, 3500 K

Due to continuous improvements and innovations, specifications may change without notice

Item	Specification	Details	
Output	Lumens*	656	
	Efficacy (lm / W)	49.1	
	CRI	87	
	Power Factor	.99 @ 120 VAC	
	Color Temperature†	3500 K	
	Lumen Maintenance‡	90,000 hours L70 @ 25° C 72,000 hours L70 @ 40° C	
Electrical	Input Voltage	120 VAC, 220 – 240 VAC, 277 VAC, 50 / 60 Hz	
	Power Consumption	14 W (0.3 m / 1ft 120 / 277 VAC) 48 W (1.2 m / 4ft 120 / 277 VAC) 14 W (0.3 m / 1ft 220 – 240 VAC) 48 W (1.2 m / 4ft 220 – 240 VAC)	
Control	Dimming	Compatible with selected commercially available reverse-phase ELV-type dimmers§	
Physical	Housing Material	Steel, white powder-coated finish	
	Lens	Polycarbonate	
	Fixture Connections	178 mm (7 in) flying leads, integral male / female connectors (120 / 277 VAC) Wieland integral male / female connectors (220 – 240 VAC)	
	Temperature Ranges	120 / 220 – 240 VAC	-20° – 40° C (-4° – 104° F) Operating -20° – 40° C (-4° – 104° F) Startup -40° – 80° C (-40° – 176° F) Storage
		277 VAC	-20° – 35° C (-4° – 95° F) Operating -20° – 35° C (-4° – 95° F) Startup -40° – 80° C (-40° – 176° F) Storage
	Fixture Run Lengths	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from <a href="http://www.philipscolorkinetics.com/support/install_tool/">www.philipscolorkinetics.com/support/install_tool/</a>	
Humidity	0 – 95%, non-condensing		
Certification and Safety	Certification	UL / cUL, FCC Class A, CE	
	Environment	Dry / Damp Location, IP20	

\* Lumen measurement complies with IES LM-79-08 testing procedures.

† Color temperatures conform to nominal CCTs as defined in ANSI Chromaticity Standard C78.377A.

‡ L70 = 70% lumen maintenance (when light output drops below 70% of initial output).

L50 = 50% lumen maintenance (when light output drops below 50% of initial output). Ambient luminaire temperatures specified. Lumen maintenance calculations are based on lifetime prediction graphs supplied by LED source manufacturers. Calculations for white-light LED fixtures are based on measurements that comply with IES LM-80-08 testing procedures. Refer to [www.philipscolorkinetics.com/support/appnotes/lm-80-08.pdf](http://www.philipscolorkinetics.com/support/appnotes/lm-80-08.pdf) for more information.

§ Refer to [www.philipscolorkinetics.com/support/appnotes/](http://www.philipscolorkinetics.com/support/appnotes/) for specific details.

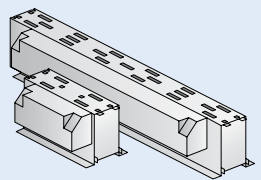
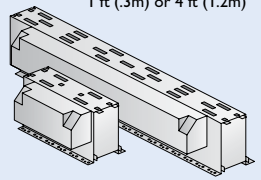
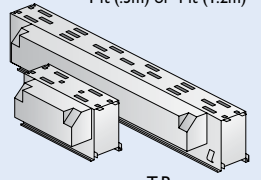
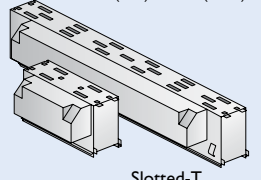
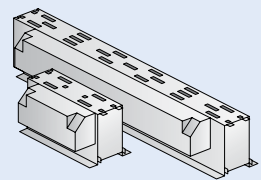
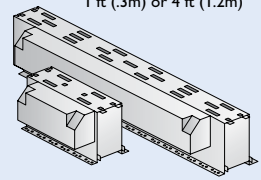
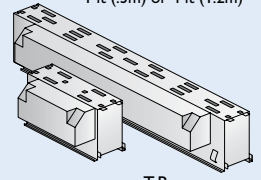
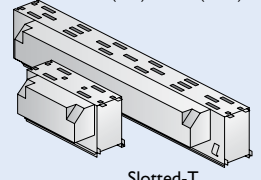
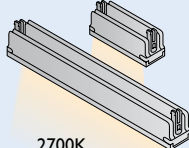
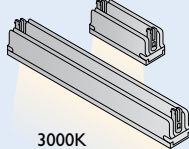
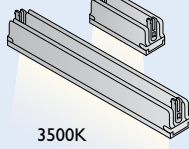
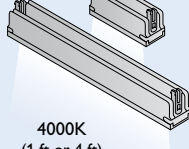
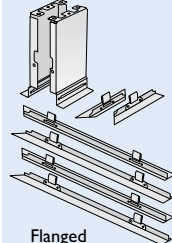
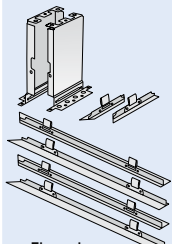
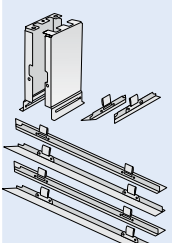
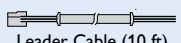
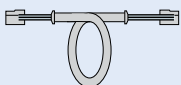
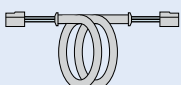
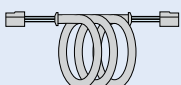
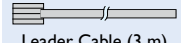
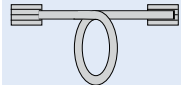
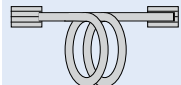
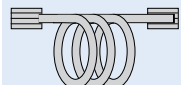
## Dimensions and Weight

Fixture	Physical Characteristics	T-Bar	Slotted-T	Flanged	Flangeless
.3 m (1 ft)	Housing Dimensions <i>Height x Width x Depth</i>	152 x 294 x 158 mm (6.0 x 11.6 x 6.3 in)	152 x 294 x 158 mm (6.0 x 11.6 x 6.3 in)	152 x 294 x 158 mm (6.0 x 11.6 x 6.3 in)	152 x 294 x 158 mm (6.0 x 11.6 x 6.3 in)
	Assembled Weight†	2.5 kg (5.5 lbs)	2.5 kg (5.5 lbs)	2.5 kg (5.5 lbs)	2.5 kg (5.5 lbs)
1.2 m (4 ft)	Housing Dimensions <i>Height x Width x Depth</i>	152 x 1172 x 158 mm (6.0 x 11.6 x 6.3 in)	152 x 1172 x 158 mm (6.0 x 11.6 x 6.3 in)	152 x 1172 x 158 mm (6.0 x 11.6 x 6.3 in)	152 x 1172 x 158 mm (6.0 x 11.6 x 6.3 in)
	Assembled Weight†	9.1 kg (20 lb)	9.1 kg (20 lb)	9.1 kg (20 lb)	9.1 kg (20 lb)

† Assembled weight includes fixture housing and LED module.

# Product Selection

To order a complete SkyRibbon Essential White Wall Grazing Powercore fixture, choose a housing (voltage, length, and type), an LED module, a spread lens, a Leader Cable, and optional Jumper Cables and louvers.

1 Choose housing type	2 Choose LED module	3 Choose end-of-run kit	4 Choose optional accessories		
<p><b>120 VAC or 277 VAC</b></p>  <p>Flanged 1 ft (.3m) or 4 ft (1.2m)</p>  <p>Flangeless 1 ft (.3m) or 4 ft (1.2m)</p>  <p>T-Bar 1 ft (.3m) or 4 ft (1.2m)</p>  <p>Slotted-T 1 ft (.3m) or 4 ft (1.2m)</p>	<p><b>220 – 240 VAC</b></p>  <p>Flanged 1 ft (.3m) or 4 ft (1.2m)</p>  <p>Flangeless 1 ft (.3m) or 4 ft (1.2m)</p>  <p>T-Bar 1 ft (.3m) or 4 ft (1.2m)</p>  <p>Slotted-T 1 ft (.3m) or 4 ft (1.2m)</p>	 <p>2700K (1 ft or 4 ft) (.3 m or 1.2 m)</p>  <p>3000K (1 ft or 4 ft) (.3 m or 1.2 m)</p>  <p>3500K (1 ft or 4 ft) (.3 m or 1.2 m)</p>  <p>4000K (1 ft or 4 ft) (.3 m or 1.2 m)</p>	 <p>Flanged</p>  <p>Flangeless</p>  <p>T-Bar / Slotted-T</p>	<p><b>120 VAC / 277 VAC</b></p>  <p>Leader Cable (10 ft)</p>  <p>Jumper Cable (1 ft)</p>  <p>Jumper Cable (4 ft)</p>  <p>Jumper Cable (8 ft)</p>	<p><b>220 – 240 VAC</b></p>  <p>Leader Cable (3 m)</p>  <p>Jumper Cable (0.9 m)</p>  <p>Jumper Cable (1.4 m)</p>  <p>Jumper Cable (1.7 m)</p>

## Housing

Item	Style	Length	Voltage	Item Number	Philips 12NC
Housing	Flanged	300 mm	220–240 VAC	172-000074-37	910503705034
		1200 mm	220–240 VAC	172-000074-36	910503705033
		1 ft	120 / 277 VAC	172-000074-41	910503705038
		4 ft	120 / 277 VAC	172-000074-40	910503705037
	Flangeless	300 mm	220–240 VAC	172-000074-33	910503705030
		1200 mm	220–240 VAC	172-000074-32	910503705029
		1 ft	120 / 277 VAC	172-000074-04	910503704301
		4 ft	120 / 277 VAC	172-000074-01	910503704297
	T-Bar	300 mm	220–240 VAC	172-000074-26	910503704350
		1200 mm	220–240 VAC	172-000074-24	910503704348
		1 ft	120 / 277 VAC	172-000074-03	910503704299
		4 ft	120 / 277 VAC	172-000074-00	910503704296
	Slotted-T	300 mm	220–240 VAC	172-000074-27	910503704351
		1200 mm	220–240 VAC	172-000074-25	910503704349
		1 ft	120 / 277 VAC	172-000074-05	910503704302
		4 ft	120 / 277 VAC	172-000074-02	910503704298
End of Run Kit	Flanged		120-000174-05	910503705026	
	Flangeless		120-000174-04	910503705025	
	T-Bar / Slotted-T		120-000174-06	910503705027	
Stand-Alone Kit	Flangeless		120-000174-09	912400130311	
	Flangeless		120-000174-08	912400130310	
	T-Bar / Slotted-T		120-000174-10	912400130312	

Use Item Number when ordering in North America.

## LED Modules, Spread Lenses, and Louvers

Item	Length	Details	Item Number	Philips 12NC
LED Modules	.3 m / 1 ft	2700 K	523-000074-00	910503702660
	.3 m / 1 ft	3000 K	523-000074-02	910503702662
	.3 m / 1 ft	3500 K	523-000074-04	910503702664
	.3 m / 1 ft	4000 K	523-000074-06	910503702666
	1.2 m / 4 ft	2700 K	523-000074-01	910503702661
	1.2 m / 4 ft	3000 K	523-000074-03	910503702663
	1.2 m / 4 ft	3500 K	523-000074-05	910503702665
	1.2 m / 4 ft	4000 K	523-000074-07	910503702667

Use Item Number when ordering in North America.

## Leader and Jumper Cables

Item	Length	Voltage	Item Number	Philips 12NC
Leader Cable	10 ft	120 / 277 VAC	108-000072-03	910503703135
	3 m	220–240 VAC	108-000072-13	910503705047
Jumper Cable	1 ft	120 / 277 VAC	108-000072-00	910503702835
	4 ft	120 / 277 VAC	108-000072-01	910503702836
	8 ft	120 / 277 VAC	108-000072-02	910503702837
	0.9 m	220–240 VAC	108-000072-15	910503705049
	1.4 m	220–240 VAC	108-000072-16	910503705050
	1.7 m	220–240 VAC	108-000072-17	910503705051

Use Item Number when ordering in North America.



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