AC FLEX WIRING SYSTEM
Americas

MODULAR AC WIRING SYSTEM FOR FLUENCE LED LIGHT FIXTURES AND POWER SUPPLIES



FEATURES

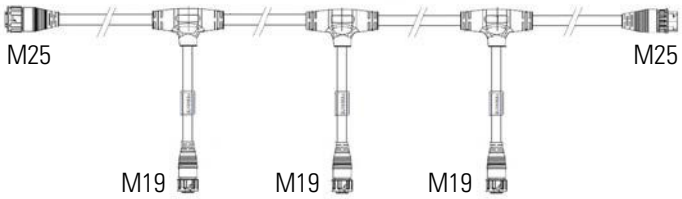
- Dramatic pre-wire, installation, and clean-up time and labor cost savings over traditional AC power wiring
- Push Lock connectors for plug-and-play, error-free installation and easy maintenance
- Designed for indoor, greenhouse, and vertical farming environments
- Suitable for wet locations
- Secure and reliable connections
- 1 year limited warranty

AC FLEX WIRING SYSTEM COMPONENTS

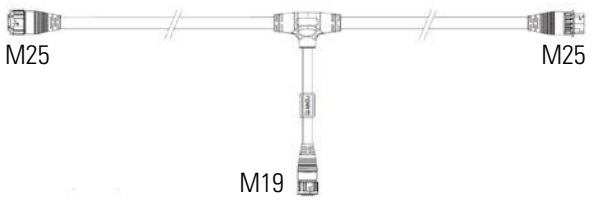
T-CONNECTOR CABLE

Connects Main Trunk to Power Supply of Light Fixtures

3T Trunk Cable 15 FT



1T Trunk Cable 5 FT | 10 FT



TRUNK EXTENSION CABLE

Extends length of T-Connector Trunk

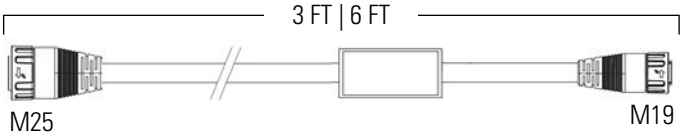
3 FT | 6 FT | 15 FT



TRUNK DROP CABLE

Connects the T-Connector Trunk to the Last Power Supply to End the Modular Cable Run

3 FT | 6 FT



J-BOX/PANEL MOUNT PIGTAIL

Begins the Modular Cable Run at the Junction Box or Electrical Panel



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AC FLEX WIRING SYSTEM
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REGIONAL COMMERCIAL CODE LEGEND

	Product	Cable Info	Cable Function	-	# Connector Pins	Connector1 (Input)	C1 Type	# Connector Pins	Connector2 (Output)	C2 Type	Length in Meters	Packing
DESCRIPTION	**AF** - AC Flex Wiring	**U** - UL Compliant	**1T** - 1T-Branch Cable **3T** - 3T-Branch Cable **ET** - Trunk Extension **TT** - Trunk Termination **PN** - J-Box Panel Mount	-	**X** - N/A (Leads) **3** - 3 Pins	**P9** - Push Lock M19 **P5** - Push Lock M25 **L3** - 3-wire Leads (Pigtails)	**X** - N/A (Leads) **M** - Male **F** - Female	**X** - N/A (Leads) **3** - 3 Pins	**P9** - Push Lock M19 **P5** - Push Lock M25 **L3** - 3-wire Leads (Pigtails)	**X** - N/A (Leads) **M** - Male **F** - Female	**XXX** - No Cable Length **#.#** - Length	**S** - Single Pack **B** - Bulk Pack
EXAMPLE	**AF**	**U**	**ET**	**-**	**3**	**P5**	**M**	**3**	**P5**	**F**	**1.8**	**S**

ORDERING INFORMATION

Description	Function (Refer to Wiring Diagram)	Regional Commercial Code (RCC)	Ordering PN 12NC Single Pack (S)	Ordering PN 12NC Bulk Pack (B)	Bulk Pack Carton QTY
3-T Branch Circuit Cable, 15 FT Trunk, 1 FT Drop	Connects 3 fixtures to circuit*	AFU3T-3P5M3P9F4.6	9124 017 01699	9124 016 56164	5
1-T Branch Circuit Cable, 5 FT Trunk, 1 FT Drop	Connects 1 fixture to circuit	AFU1T-3P5M3P9F1.5	9124 017 01701	9124 016 56165	10
1-T Branch Circuit Cable, 10 FT Trunk, 1 FT Drop	Connects 1 fixture to circuit	AFU1T-3P5M3P9F3.0	9124 017 01702	9124 016 56166	5
Trunk Extension Cable, 3 FT	Extends length of trunk to first or next T-cable	AFUET-3P5M3P5F0.9	9124 017 01696	9124 016 56157	10
Trunk Extension Cable, 6 FT	Extends length of trunk to first or next T-cable	AFUET-3P5M3P5F1.8	9124 017 01697	9124 016 56158	10
Trunk Extension Cable, 15 FT	Extends length of trunk to first or next T-cable	AFUET-3P5M3P5F4.6	9124 017 01698	9124 016 56159	5
Trunk Termination Cable, 3 FT	Ends the circuit at the last fixture	AFUTT-3P5M3P9F0.9	9124 017 01703	9124 016 56167	10
Trunk Termination Cable, 6 FT	Ends the circuit at the last fixture	AFUTT-3P5M3P9F1.8	9124 017 01704	9124 016 56168	10
J-Box/Panel Mount Pigtail, 6 IN Leads	Begins the circuit at the junction box or panel	AFUPN-XL3X3P5F0.1	9124 017 01695	9124 016 56156	20
AC Adapter Cable, M19 Push Lock to M19 Screw Lock	Adapts T-cable Drop or Trunk Termination to Screw Lock M19 Fixture	AAA-XXU3T9FP9M0.3	9124 017 01795	9124 016 56065	20
AC Adapter Cable, M19 Push Lock to Wieland Leaf Green RST1	Adapts T-cable Drop or Trunk Termination to Wieland RST1 Fixture	AAA-XXU3WGFP9M0.1	9124 017 01608	9124 016 56068	20

* **WARNING:** Do not use with light fixtures that exceed 3.75 A at 120 V AC operating voltage. Please refer to the electrical performance specifications of the light fixture specification sheet for the operating current.

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	Product	Cable Info	Cable Function	-	# Connector Pins	Connector1 (Input)	C1 Type	# Connector Pins	Connector2 (Output)	C2 Type	Length in Meters	Packing
DESCRIPTION	**AF** - AC Flex Wiring	**U** - UL Compliant	**1T** - 1T-Branch Cable **3T** - 3T-Branch Cable **ET** - Trunk Extension **TT** - Trunk Termination **PN** - J-Box Panel Mount	-	**X** - N/A (Leads) **3** - 3 Pins	**P9** - Push Lock M19 **P5** - Push Lock M25 **L3** - 3-wire Leads (Pigtails)	**X** - N/A (Leads) **M** - Male **F** - Female	**X** - N/A (Leads) **3** - 3 Pins	**P9** - Push Lock M19 **P5** - Push Lock M25 **L3** - 3-wire Leads (Pigtails)	**X** - N/A (Leads) **M** - Male **F** - Female	**XXX** - No Cable Length **#.#** - Length	**S** - Single Pack **B** - Bulk Pack
EXAMPLE	**AF**	**U**	**ET**	**-**	**3**	**P5**	**M**	**3**	**P5**	**F**	**1.8**	**S**

SPECIFICATIONS

Description	Regional Commercial Code (RCC)	Cable Length	Max AC Input Voltage	Max AC Input Current	Input Connector	Output Connector	T-Drop Connector	Cable Type
3-T Branch Circuit Cable, 15 FT Trunk, 1 FT Drop	AFU3T-3P5M3P9F4.6	15 ft 4572 mm	480V	Input Total 15 A* Branches 3.75 A* Trunk Drop 3.75 A*	Push Lock Male M25 3-pin	Push Lock Female M25 3-pin	Push Lock Female M19 3-pin	Trunk: 3 x 14 AWG Branch: 3 x 18 AWG STW 600 V AC PVC Jacket
1-T Branch Circuit Cable, 5 FT Trunk, 1 FT Drop	AFU1T-3P5M3P9F1.5	5 ft 1524 mm		Input Total 15 A Trunk Output 8 A Branch Output 7 A				
1-T Branch Circuit Cable, 10 FT Trunk, 1 FT Drop	AFU1T-3P5M3P9F3.0	10 ft 3048 mm						
Trunk Extension Cable, 3 FT	AFUET-3P5M3P5F0.9	3 ft 915 mm		15 A	Push Lock Male M25 3-pin	Push Lock Female M25 3-pin	N/A	STW 3 x 14 AWG 600 V AC PVC Jacket
Trunk Extension Cable, 6 FT	AFUET-3P5M3P5F1.8	6 ft 1829 mm						
Trunk Extension Cable, 15 FT	AFUET-3P5M3P5F4.6	15 ft 4572 mm						
Trunk Termination Cable, 3 FT	AFUTT-3P5M3P9F0.9	3 ft 915 mm		7 A	Push Lock Male M25 3-pin	Push Lock Female M19 3-pin		
Trunk Termination Cable, 6 FT	AFUTT-3P5M3P9F1.8	6 ft 1829 mm						
J-Box/Panel Mount Pigtail, 6 IN Leads	AFUPN-XL3X3P5F0.1	6 in 152 mm		20 A	Pigtails	Push Lock Female M25 3-pin		UL 1015 3 x 12 AWG 105° C/ 600 V AC
AC Adapter Cable, M19 Push Lock to M19 Screw Lock	AAA-XXU3T9FP9M0.3	12 in 305 mm		10 A	Push Lock Male M19 3-pin	Screw Lock Female M19 3-pin		STW 3 x 18 AWG 600 V AC PVC Jacket
AC Adapter Cable, M19 Push Lock to Wieland Leaf Green RST1	AAA-XXU3WGFP9M0.1	6 in 152 mm		7 A		Wieland Female RST1 Leaf Green 3-pin PN 96.031.0055.7		

*⚠ **WARNING:** Do not use with light fixtures that exceed 3.75 A at 120 V AC operating voltage. Please refer to the electrical performance specifications of the light fixture specification sheet for the operating current.

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EXAMPLE	**AF**	**U**	**ET**	**-**	**3**	**P5**	**M**	**3**	**P5**	**F**	**1.8**	**S**

PACKAGE INFORMATION

Description	Regional Commercial Code (RCC)	Ordering PN 12NC	Carton QTY	Weight	Length	Width	Height	HTS Tariff Code
3-T Branch Circuit Cable, 15 FT Trunk, 1 FT Drop	AFU3T-3P5M3P9F4.6S	9124 017 01699	1	5.62 lb 2.55 kg	15.5″ 39.4 cm	5.0″ 12.7 cm	15.5″ 39.4 cm	8536.69.8000
	AFU3T-3P5M3P9F4.6B	9124 016 56164	5	23.70 lb 10.75 kg	13.5″ 34.3 cm	13.0″ 33 cm	9.0″ 22.9 cm	
1-T Branch Circuit Cable, 5 FT Trunk, 1 FT Drop	AFU1T-3P5M3P9F1.5S	9124 017 01701	1	1.50 lb 0.68 kg	16.0″ 40.7 cm	10.5″ 26.7 cm	1.5″ 3.9 cm	
	AFU1T-3P5M3P9F1.5B	9124 016 56165	10	12.79 lb 5.80 kg	13.5″ 34.3 cm	13.0″ 33 cm	9.0″ 22.9 cm	
1-T Branch Circuit Cable, 10 FT Trunk, 1 FT Drop	AFU1T-3P5M3P9F3.0S	9124 017 01702	1	2.40 lb 1.09 kg	16.0″ 40.7 cm	10.5″ 26.7 cm	1.5″ 3.9 cm	
	AFU1T-3P5M3P9F3.0B	9124 016 56166	5	10.91 lb 4.95 kg	15.5″ 39.4 cm	5.0″ 12.7 cm	15.5″ 39.4 cm	
Trunk Extension Cable, 3 FT	AFUET-3P5M3P5F0.9S	9124 017 01696	1	0.79 lb 0.36 kg	16.0″ 40.7 cm	10.5″ 26.7 cm	1.5″ 3.9 cm	
	AFUET-3P5M3P5F0.9B	9124 016 56157	10	5.73 lb 2.60 kg	15.5″ 39.4 cm	5.0″ 12.7 cm	15.5″ 39.4 cm	
Trunk Extension Cable, 6 FT	AFUET-3P5M3P5F1.8S	9124 017 01697	1	1.28 lb 0.58 kg	16.0″ 40.7 cm	10.5″ 26.7 cm	1.5″ 3.9 cm	
	AFUET-3P5M3P5F1.8B	9124 016 56158	10	10.58 lb 4.80 kg	15.5″ 39.4 cm	5.0″ 12.7 cm	15.5″ 39.4 cm	
Trunk Extension Cable, 15 FT	AFUET-3P5M3P5F4.6S	9124 017 01698	1	2.87 lb 1.3 kg	16.0″ 40.7 cm	10.5″ 26.7 cm	1.5″ 3.9 cm	
	AFUET-3P5M3P5F4.6B	9124 016 56159	5	13.23 lb 6.0 kg	15.5″ 39.4 cm	5.0″ 12.7 cm	15.5″ 39.4 cm	
Trunk Termination Cable, 3 FT	AFUTT-3P5M3P9F0.9S	9124 017 01703	1	0.66 lb 0.30 kg	16.0″ 40.7 cm	10.5″ 26.7 cm	1.5″ 3.9 cm	
	AFUTT-3P5M3P9F0.9B	9124 016 56167	10	5.51 lb 2.5 kg	15.5″ 39.4 cm	5.0″ 12.7 cm	15.5″ 39.4 cm	
Trunk Termination Cable, 3 FT	AFUTT-3P5M3P9F1.8S	9124 017 01704	1	0.88 lb 0.40 kg	16.0″ 40.7 cm	10.5″ 26.7 cm	1.5″ 3.9 cm	
	AFUTT-3P5M3P9F1.8B	9124 016 56168	10	7.72 lb 3.50 kg	15.5″ 39.4 cm	5.0″ 12.7 cm	15.5″ 39.4 cm	
J-Box/Panel Mount Pigtail, 6 IN Leads	AFUPN-XL3X3P5F0.1S	9124 017 01695	1	0.21 lb 0.095 kg	16.0″ 40.7 cm	10.5″ 26.7 cm	1.5″ 3.9 cm	
	AFUPN-XL3X3P5F0.1B	9124 016 56156	20	3.75 lb 1.70 kg	15.5″ 39.4 cm	5.0″ 12.7 cm	15.5″ 39.4 cm	
AC Adapter Cable, M19 Push Lock to M19 Screw Lock	AAA-XXU3T9FP9M0.3S	9124 017 01795	1	0.29 lb 0.14 kg	16.0″ 40.7 cm	10.5″ 26.7 cm	1.5″ 3.9 cm	
	AAA-XXU3T9FP9M0.3B	9124 016 56065	20	5.84 lb 2.65 kg	15.5″ 39.4 cm	5.0″ 12.7 cm	15.5″ 39.4 cm	
AC Adapter Cable, M19 Push Lock to Wieland Leaf Green RST1	AAA-XXU3WGFP9M0.1S	9124 017 01608	1	0.29 lb 0.14 kg	16.0″ 40.7 cm	10.5″ 26.7 cm	1.5″ 3.9 cm	
	AAA-XXU3WGFP9M0.1B	9124 016 56068	20	5.84 lb 2.65 kg	15.5″ 39.4 cm	5.0″ 12.7 cm	15.5″ 39.4 cm	

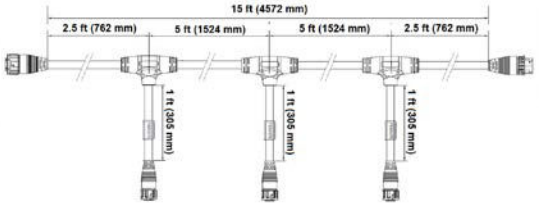
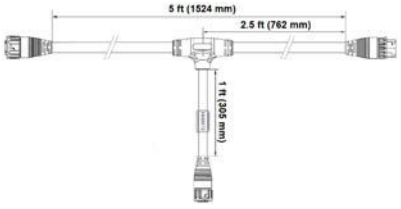
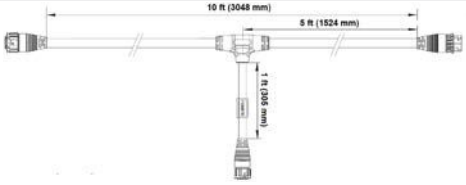
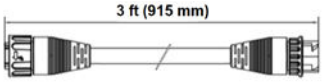
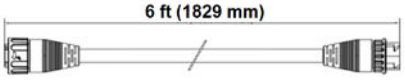
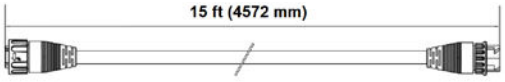
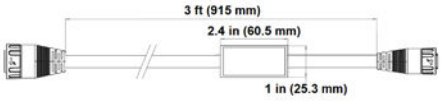
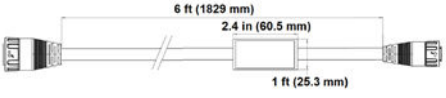
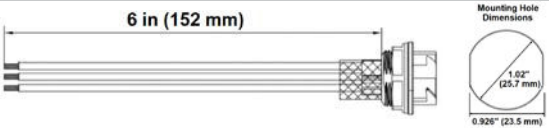
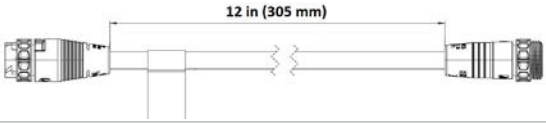
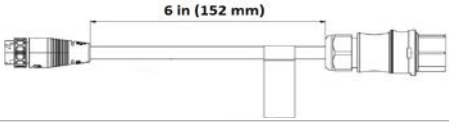
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MECHANICAL DRAWINGS

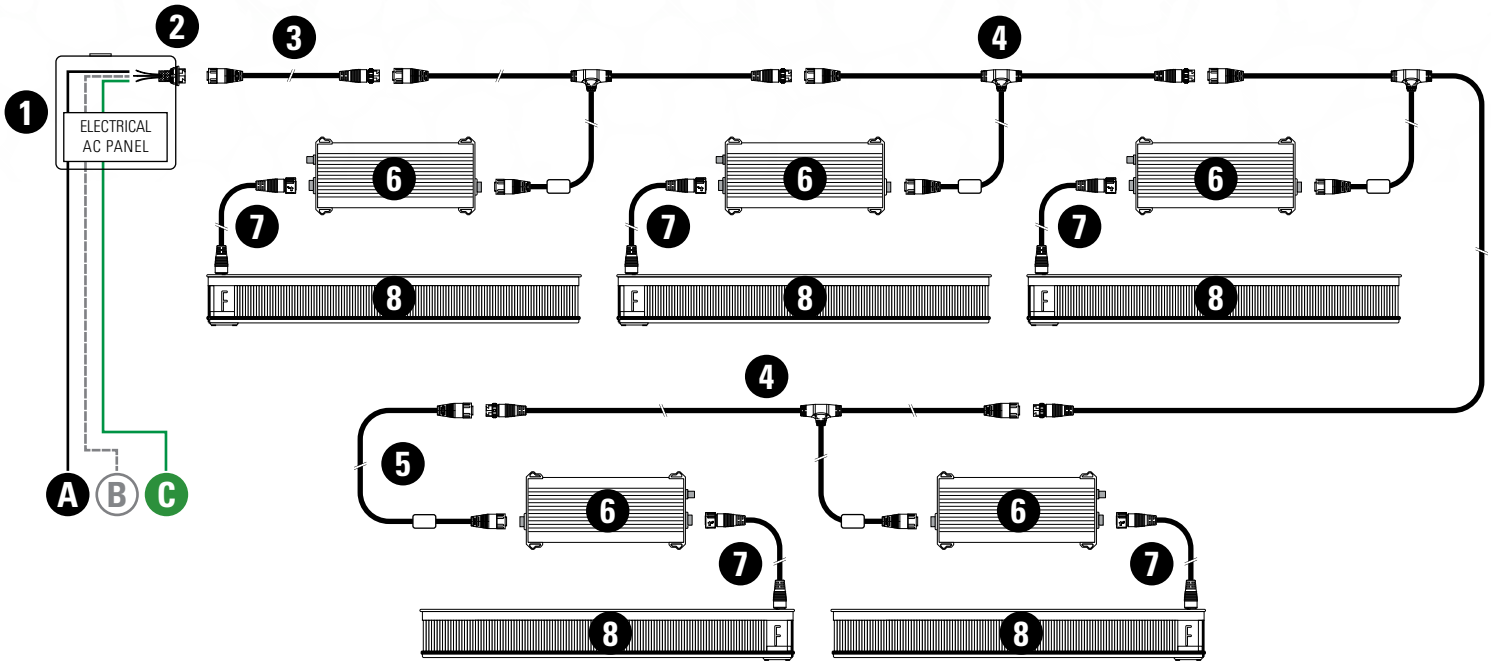
Regional Commercial Code (RCC)	Pin Config. Input Connector	Mechanical Drawing	Pin Config. Output Connector	Pin Config. T-Drop Connector
AFU3T-3P5M3P9F4.6	M25/M 3-pin Pin 1 Neutral Pin 3 Line Pin 2 Ground		M25/F 3-pin Pin 3 Line Pin 1 Neutral Pin 2 Ground	M19/F 3-pin Pin L Line Pin N Neutral Pin G Ground
AFU1T-3P5M3P9F1.5	M25/M 3-pin Pin 1 Neutral Pin 3 Line Pin 2 Ground		M25/F 3-pin Pin 3 Line Pin 1 Neutral Pin 2 Ground	M19/F 3-pin Pin L Line Pin N Neutral Pin G Ground
AFU1T-3P5M3P9F3.0	M25/M 3-pin Pin 1 Neutral Pin 3 Line Pin 2 Ground		M25/F 3-pin Pin 3 Line Pin 1 Neutral Pin 2 Ground	M19/F 3-pin Pin L Line Pin N Neutral Pin G Ground
AFUET-3P5M3P5F0.9	M25/M 3-pin Pin 1 Neutral Pin 3 Line Pin 2 Ground		M25/F 3-pin Pin 3 Line Pin 1 Neutral Pin 2 Ground	N/A
AFUET-3P5M3P5F1.8	M25/M 3-pin Pin 1 Neutral Pin 3 Line Pin 2 Ground		M25/F 3-pin Pin 3 Line Pin 1 Neutral Pin 2 Ground	N/A
AFUET-3P5M3P5F4.6	M25/M 3-pin Pin 1 Neutral Pin 3 Line Pin 2 Ground		M25/F 3-pin Pin 3 Line Pin 1 Neutral Pin 2 Ground	N/A
AFUTT-3P5M3P9F0.9	M25/M 3-pin Pin 1 Neutral Pin 3 Line Pin 2 Ground		M19/F 3-pin Pin L Line Pin N Neutral Pin G Ground	N/A
AFUTT-3P5M3P9F1.8	M25/M 3-pin Pin 1 Neutral Pin 3 Line Pin 2 Ground		M19/F 3-pin Pin L Line Pin N Neutral Pin G Ground	N/A
AFUPN-XL3X3P5F0.1	Black = Line White = Neutral Green = Ground		M25/F 3-pin Pin 3 Line Pin 1 Neutral Pin 2 Ground	N/A
AAA-XXU3T9FP9M0.3	M19 PL 3-pin/M Pin 2 Neutral Pin 1 Line Pin 3 Ground		M19 SL 3-pin/F Pin 1 Line Pin 2 Neutral Pin 3 Ground	N/A
AAA-XXU3WGFP9M0.1	M19 PL 3-pin/M Pin 2 Neutral Pin 1 Line Pin 3 Ground		WIELAND 3-pin/F Pin 1 Line Pin 3 Ground Pin 2 Neutral	N/A

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WIRING DIAGRAM



COMPONENTS

1 Lighting Electrical Panel or Junction Box
2 AC Flex J-Box/Panel Mount Pigtail (AFUPN-XL3X3P5F0.1)
3 AC Flex Trunk Extension
3 FT (AFUET-3P5M3P5F0.9) or
6 FT (AFUET-3P5M3P5F1.8) or
15 FT (AFUET-3P5M3P5F4.6)
4 AC Flex T-Connector Cable to Light Fixture
1T 5 FT (AFU1T-3P5M3P9F1.5) or
1T 10 FT (AFU1T-3P5M3P9F3.0) or
3T 15 FT (AFU3T-3P5M3P9F4.6)
5 AC Flex Trunk Drop Cable to Last Light Fixture
3 FT (AFUTT-3P5M3P9F0.9) or
6 FT (AFUTT-3P5M3P9F1.8)
6 Power Supply for Light Fixture
7 DC Power Cable to Light Fixture
8 Light Fixture

CABLING

TYPICAL WIRING CONNECTIONS (REFER TO FIXTURE WIRING DIAGRAM)

			INPUT VOLTAGE					
Diagram Lead	Cable Lead Color	Power Supply Pin Connection	120 V	208 V	240 V	277 V	347 V	480 V
A	Black	L	Phase	Phase	Phase	Phase	Phase	Phase
B	White	N	Neutral	Phase	Phase	Neutral	Neutral	Phase
C	Green	G	PE	PE	PE	PE	PE	PE

Need assistance or have questions? Fluence will design your AC Flex Dimming Wiring System layout for you!

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