DIM FLEX WIRING SYSTEM
Americas (M16 1-Channel)

MODULAR 0-10V DC DIMMING WIRING SYSTEM
FOR FLUENCE SINGLE-CHANNEL LED LIGHT FIXTURES.



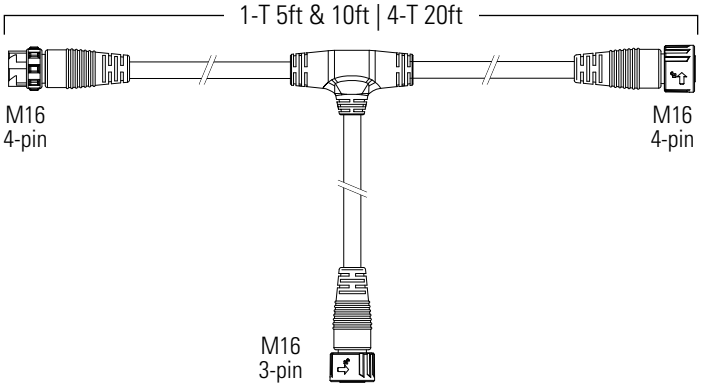
FEATURES

- Dramatic pre-wire, installation, and clean-up time and labor cost savings over traditional light fixture 0-10 V DC control wiring
- Push Lock connectors for plug-and-play, error-free installation and easy maintenance
- Secure and reliable connections
- Designed for indoor, greenhouse, and vertical farming environments
- Suitable for wet locations
- 1 year limited warranty

DIM FLEX SYSTEM COMPONENTS

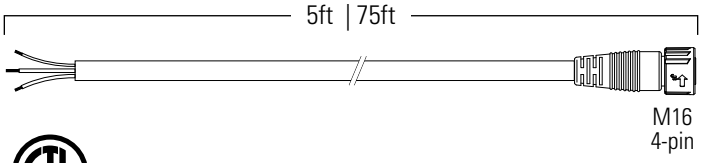
T-CONNECTORS

Connects Main Trunk to Power Supply of Light Fixtures



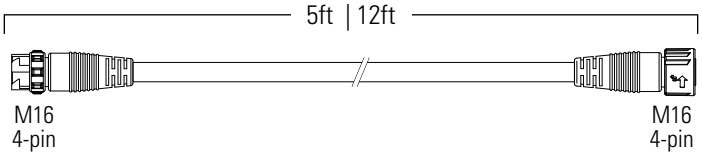
PIGTAIL TRUNK EXTENSIONS

Begins the Modular Wire Run at the Dimmer or Master Controller



TRUNK EXTENSIONS

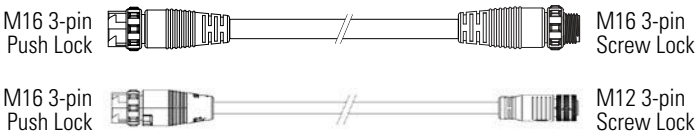
Extends length of T-Connector Trunk



ACCESSORIES

ADAPTER

Adapts Light Fixture/Power Supply with Screw Lock Connector to Push Lock



DUSTCAP

Covers unused push-lock connector to terminate and protect end



Intertek

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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	**DF -** Dim Flex Wiring	**U -** UL Compliant	**1T -** 1T-Branch Cable **4T -** 4T-Branch Cable **ET -** Trunk Extension **PT -** Pigtail Trunk Extension **DC -** DIM Flex M16 Dust Cap	-	**X -** N/A (Leads) **1 -** 1 Pin **2 -** 2 Pins **3 -** 3 Pins **4 -** 4 Pins	**P6 -** Push Lock M16 **P9 -** Push Lock M19 **T2** - Screw Lock (Threaded) M12 **T6** - Screw Lock (Threaded) M16 **L3 -** 3-wire Leads (Pigtails)	**X -** N/A (Leads) **M -** Male **F -** Female	**1 -** 1 Pin **2 -** 2 Pins **3 -** 3 Pins **4 -** 4 Pins	**P6 -** Push Lock M16 **P9 -** Push Lock M19 **T2** - Screw Lock (Threaded) M12 **T6** - Screw Lock (Threaded) M16	**X -** N/A (Leads) **M -** Male **F -** Female	**XXX -** No Cable Length **#.# -** Length	**S -** Single Pack **B -** Bulk Pack
EXAMPLE	**DF**	**U**	**ET**	**-**	**4**	**P6**	**M**	**4**	**P6**	**F**	**3.6**	**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
4-T Branch Dimming Cable, 20 FT Trunk, 1 FT Drop	Connects 4 fixtures to the dimming control line	DFU4T-4P6M3P6F6.0	9124 017 01722	9124 016 56177	5
1-T Branch Dimming Cable, 5 FT Trunk, 1 FT Drop	Connects 1 fixture to the dimming control line	DFU1T-4P6M3P6F1.5	9124 017 01720	9124 016 56173	10
1-T Branch Dimming Cable, 10 FT Trunk, 1 FT Drop	Connects 1 fixture to the dimming control line	DFU1T-4P6M3P6F3.0	9124 017 01719	9124 016 56172	5
Pigtail Trunk Extension Cable, 5 FT	Begins the dimming control line at the dimmer or controller	DFUPT-XL3X4P6F1.5	9124 017 01724	9124 016 56181	10
Pigtail Trunk Extension Cable, 75 FT	Begins the dimming control line at the dimmer or controller	DFUPT-XL3X4P6F22.	9124 017 01717	9124 016 56170	3
Trunk Extension Cable, 5 FT	Extends length of trunk to first or next T-cable	DFUET-4P6M4P6F1.5	9124 017 01718	9124 016 56171	10
Trunk Extension Cable, 12 FT	Extends length of trunk to first or next T-cable	DFUET-4P6M4P6F3.6	9124 017 01716	9124 016 56169	5
Dimming Adapter Cable, M16 Push Lock to M16 Screw Lock	Adapts T-cable Drop to Screw-Lock M16 Dimming Port	ACA-XXU3P6MT6F0.1	9124 016 56174	9124 016 56175	20
Dimming Adapter Cable, M16 Push Lock to M12 Screw Lock	Adapts T-cable Drop to Screw-Lock M12 Dimming Port	ACA-XXU3T2FP6M0.1	9124 017 01735	9124 016 56192	20
Terminator Dust Cap, M16	Protects the Female trunk connector pins of the last T-cable in the dimming control line	DFUDC-4P6MXXXXXXX	9124 017 01721	9124 016 56176	100

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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	**DF -** Dim Flex Wiring	**U -** UL Compliant	**1T -** 1T-Branch Cable **4T -** 4T-Branch Cable **ET -** Trunk Extension **PT -** Pigtail Trunk Extension **DC -** DIM Flex M16 Dust Cap	-	**X -** N/A (Leads) **1 -** 1 Pin **2 -** 2 Pins **3 -** 3 Pins **4 -** 4 Pins	**P6 -** Push Lock M16 **P9 -** Push Lock M19 **T2** - Screw Lock (Threaded) M12 **T6** - Screw Lock (Threaded) M16 **L3 -** 3-wire Leads (Pigtails)	**X -** N/A (Leads) **M -** Male **F -** Female	**1 -** 1 Pin **2 -** 2 Pins **3 -** 3 Pins **4 -** 4 Pins	**P6 -** Push Lock M16 **P9 -** Push Lock M19 **T2** - Screw Lock (Threaded) M12 **T6** - Screw Lock (Threaded) M16	**X -** N/A (Leads) **M -** Male **F -** Female	**XXX -** No Cable Length **#.# -** Length	**S -** Single Pack **B -** Bulk Pack
EXAMPLE	**DF**	**U**	**ET**	**-**	**4**	**P6**	**M**	**4**	**P6**	**F**	**3.6**	**S**

SPECIFICATIONS

Description	Regional Commercial Code (RCC)	Cable Lengh	Max DC input Voltage	Max DC Input Current	Input Connector	Output Connector	T-Drop Connector	Cable Type
4-T Branch Dimming Cable, 20 FT Trunk, 1 FT Drop	DFU4T-4P6M3P6F6.0	20.0 ft 6096 mm	12 V	7 A	Push Lock Male M16 4-pin	Push Lock Female M16 4-pin	Push Lock Female M16 3-pin	AWM UL 22190 600 V, -40-105° C, VW-1 2 x 18 AWG/ 0.75 mm², Plus Drain
1-T Branch Dimming Cable, 5 FT Trunk, 1 FT Drop	DFU1T-4P6M3P6F1.5	5 ft 1524 mm						
1-T Branch Dimming Cable, 10 FT Trunk, 1 FT Drop	DFU1T-4P6M3P6F3.0	10 ft 3048 mm						
Pigtail Trunk Extension Cable, 5 FT	DFUPT-XL3X4P6F1.5	5.0 ft 1524 mm	12 V	7 A	Pigtails	Push Lock Female M16 4-pin	N/A	
Pigtail Trunk Extension Cable, 75 FT	DFUPT-XL3X4P6F22.	75.0 ft 22860 mm						
Trunk Extension Cable, 5 FT	DFUET-4P6M4P6F1.5	5.0 ft 1524 mm			Push Lock Male M16 4-pin	Push Lock Female M16 4-pin		
Trunk Extension Cable, 12 FT	DFUET-4P6M4P6F3.6	12.0 ft 3658 mm						
Dimming Adapter Cable, M16 Push Lock to M16 Screw Lock	ACA-XXU3P6MT6F0.1	6.7 in 170 mm			Push Lock Male M16 3-pin	Screw Lock Female M16 3-pin		
Dimming Adapter Cable, M16 Push Lock to M12 Screw Lock	ACA-XXU3T2FP6M0.1	6.0 in 152 mm				Screw Lock Female M12 3-pin		AWM UL 21996/UL 22190 300 V, V-0 2 x 20 AWG/ 0.5 mm², Plus Drain
Terminator Dust Cap, M16	DFUDC-4P6MXXXXXXX	N/A	N/A	N/A	Push Lock Male M16 4-pin	N/A	N/A	N/A

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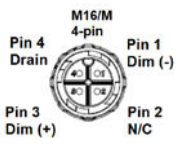
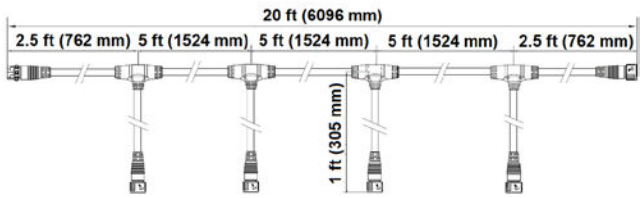
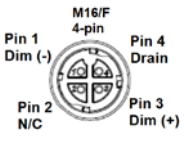
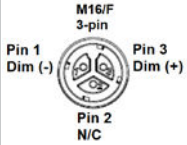
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PACKAGE INFORMATION

Description	Regional Commercial Code (RCC)	Ordering PN 12NC	Carton QTY.	Weight	Length	Width	Height	HTS Tariff Code
4-T Branch Dimming Cable, 20 FT Trunk, 1 FT Drop	DFU4T-4P6M3P6F6.0S	9124 017 01722	1	1.96 lb 0.89 kg	16.0″ 40.7 cm	10.5″ 26.7 cm	1.5″ 3.9 cm	8536.69.8000
	DFU4T-4P6M3P6F6.0B	9124 016 56177	5	8.82 lb 4.00 kg	13.5″ 34.3 cm	13.0″ 33 cm	9.0″ 22.9 cm	
1-T Branch Dimming Cable, 5 FT Trunk, 1 FT Drop	DFU1T-4P6M3P6F1.5S	9124 017 01720	1	0.64 lb 0.29 kg	16.0″ 40.7 cm	10.5″ 26.7 cm	1.5″ 3.9 cm	
	DFU1T-4P6M3P6F1.5B	9124 016 56173	10	5.51 lb 2.50 kg	15.5″ 39.4 cm	5.0″ 12.7 cm	15.5″ 39.4 cm	
1-T Branch Dimming Cable, 10 FT Trunk, 1 FT Drop	DFU1T-4P6M3P6F3.0S	9124 017 01719	1	1.04 lb 0.47 kg	16.0″ 40.7 cm	10.5″ 26.7 cm	1.5″ 3.9 cm	
	DFU1T-4P6M3P6F3.0B	9124 016 56172	5	4.41 lb 2.00 kg	13.5″ 34.3 cm	13.0″ 33 cm	9.0″ 22.9 cm	
Pigtail Trunk Extension Cable, 5 FT	DFUPT-XL3X4P6F1.5S	9124 017 01724	1	0.77 lb 0.35 kg	16.0″ 40.7 cm	10.5″ 26.7 cm	1.5″ 3.9 cm	
	DFUPT-XL3X4P6F1.5B	9124 016 56181	10	6.61 lb 3.00 kg	13.5″ 34.3 cm	13.0″ 33 cm	9.0″ 22.9 cm	
Pigtail Trunk Extension Cable, 75 FT	DFUPT-XL3X4P6F22.S	9124 017 01717	1	6.61 lb 3.00 kg	15.5″ 39.4 cm	5.0″ 12.7 cm	15.5″ 39.4 cm	
	DFUPT-XL3X4P6F22.B	9124 016 56170	3	17.64 lb 8.00 kg	13.5″ 34.3 cm	13.0″ 33 cm	9.0″ 22.9 cm	
Trunk Extension Cable, 5 FT	DFUET-4P6M4P6F1.5S	9124 017 01718	1	0.51 lb 0.23 kg	16.0″ 40.7 cm	10.5″ 26.7 cm	1.5″ 3.9 cm	
	DFUET-4P6M4P6F1.5B	9124 016 56171	10	4.19 lb 1.9 kg	13.5″ 34.3 cm	13.0″ 33 cm	9.0″ 22.9 cm	
Trunk Extension Cable, 12 FT	DFUET-4P6M4P6F3.6S	9124 017 01716	1	1.04 lb 0.47 kg	16.0″ 40.7 cm	10.5″ 26.7 cm	1.5″ 3.9 cm	
	DFUET-4P6M4P6F3.6B	9124 016 56169	5	4.41 lb 2.0 kg	15.5″ 39.4 cm	5.0″ 12.7 cm	15.5″ 39.4 cm	
Dimming Adapter Cable, M16 Push Lock to M16 Screw Lock	ACA-XXU3P6MT6F0.1S	9124 016 56174	1	0.17 lb 0.075 kg	16.0″ 40.7 cm	10.5″ 26.7 cm	1.5″ 3.9 cm	
	ACA-XXU3P6MT6F0.1B	9124 016 56175	20	2.87 lb 1.30 kg	15.5″ 39.4 cm	5.0″ 12.7 cm	15.5″ 39.4 cm	
Dimming Adapter Cable, M16 Push Lock to M12 Screw Lock	ACA-XXU3T2FP6M0.1S	9124 017 01735	1	0.19 lb 0.085 kg	16.0″ 40.7 cm	10.5″ 26.7 cm	1.5″ 3.9 cm	
	ACA-XXU3T2FP6M0.1B	9124 016 56192	20	3.31 lb 1.50 kg	15.5″ 39.4 cm	5.0″ 12.7 cm	15.5″ 39.4 cm	
Terminator Dust Cap, M16	DFUDC-4P6MXXXXXXXS	9124 017 01721	1	0.06 lb 0.025 kg	12.0″ 30.5 cm	7.25″ 18.4 cm	1.0″ 2.5 cm	
	DFUDC-4P6MXXXXXXXB	9124 016 56176	100	3.31 lb 1.5 kg	15.5″ 39.4 cm	5.0″ 12.7 cm	15.5″ 39.4 cm	

MECHANICAL DRAWINGS

Regional Commercial Code (RCC)	Pin Config. Input Connector	Mechanical Drawing	Pin Config. Output Connector	Pin Config. T-Drop Connector
DFU4T-4P6M3P6F6.0				

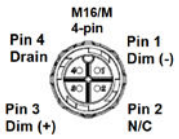
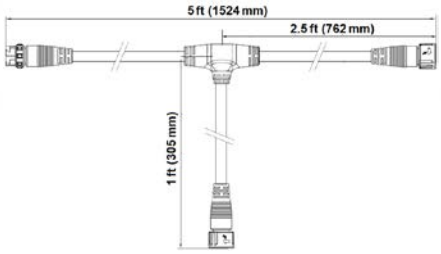
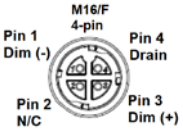
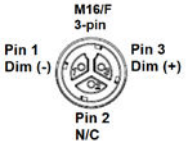
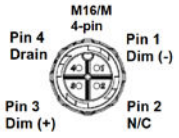
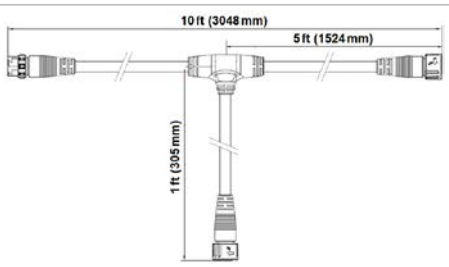
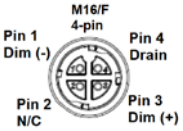
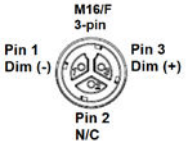
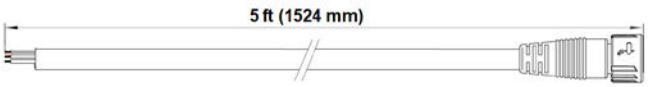
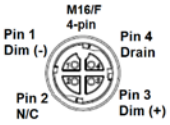
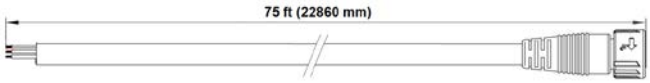
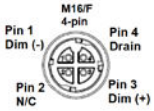
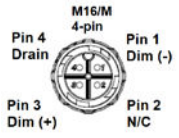
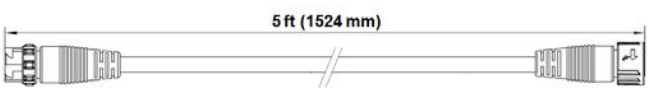
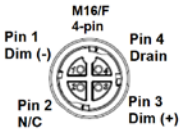
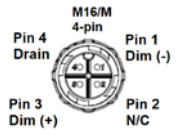
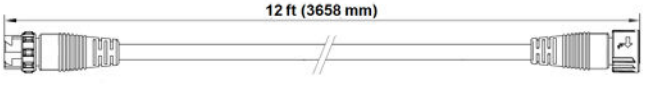
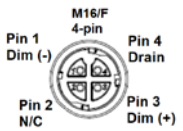
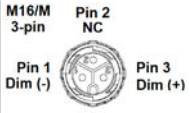
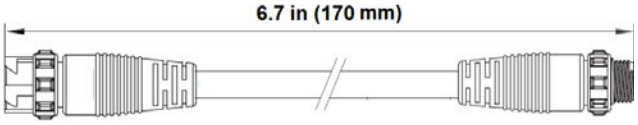
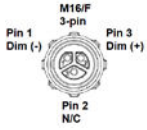
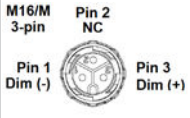
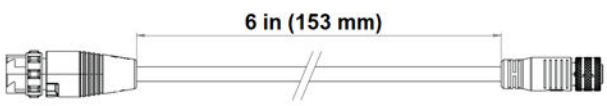
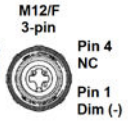
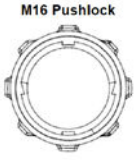
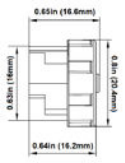
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DIM FLEX WIRING SYSTEM
Americas (M16 1-Channel)

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MECHANICAL DRAWINGS Continued

Regional Commercial Code (RCC)	Pin Config. Input Connector	Mechanical Drawing	Pin Config. Output Connector	Pin Config. T-Drop Connector
DFU1T-4P6M3P6F1.5				
DFU1T-4P6M3P6F3.0				
DFUPT-XL3X4P6F1.5	Red = Dim (+) Black = Dim (-) Bare Wire = Drain			N/A
DFUPT-XL3X4P6F22.	Red = Dim (+) Black = Dim (-) Bare Wire = Drain			N/A
DFUET-4P6M4P6F1.5				N/A
DFUET-4P6M4P6F3.6				N/A
ACA-XXU3P6MT6F0.1				N/A
ACA-XXU3T2FP6M0.1				N/A
DFUDC-4P6MXXXXXXX			N/A	N/A

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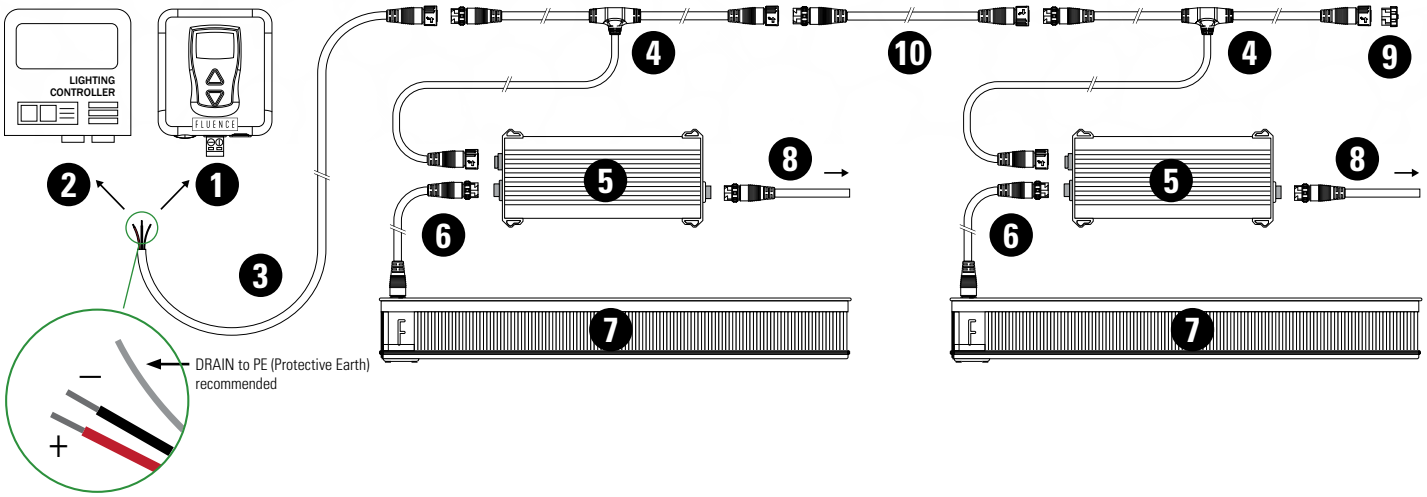
Intertek

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DIM FLEX WIRING SYSTEM

Americas (M16 1-Channel)

WIRING DIAGRAM: 0-10V Dimmer Channel to Multiple Fluence LED Light Fixtures



COMPONENTS

1. Fluence Dimmer (DM2AA-1CC2TBMTAP)
2. Third Party Light Controller/Dimmer
3. DIM Flex Pigtail Trunk Extension
   5 FT (DFUPT-XL3X4P6F1.5) or
   75 FT (DFUPT-XL3X4P6F22)
4. DIM Flex T-Connector Cable to Light Fixture
   1-T 5 FT (DFU1T-4P6M3P6F1.5) or
   1-T 10 FT (DFU1T-4P6M3P6F3.0) or
   4-T 20 FT (DFU4T-4P6M3P6F6.0)
5. Power Supply for Light Fixture
6. DIM Power Extension Cable to Light Fixture
7. Light Fixture
8. AC Power Cable to Power Supply
9. DIM Flex T-Connector to next Light Fixture
   1-T 5 FT (DFU1T-4P6M3P6F1.5) or
   1-T 10 FT (DFU1T-4P6M3P6F3.0) or
   4-T 20 FT (DFU4T-4P6M3P6F6.0) or
   terminate with Dust Cap (DFUDC-4P6MXXXXXXX)
10. DIM Flex Trunk Extension
    5 FT (DFUET-4P6M4P6F1.5) or
    12 FT (DFUET-4P6M4P6F3.6)

Maximum Quantity Connected Light Fixtures (per branch)	Maximum Distance First to Last Light Fixtures (per branch)
Up to 50 Light Fixtures	200-300 ft 61-91.5 m

NOTES

A. Connector Adapter (ACA-XXU3P6MT6F0.1) is required for RAZR 234, RAY, SPYDRx, and SPYDRx PLUS.

B. Connector Adapter (ACA-XXU3T2FP6M0.1) is required for a PSU2 Power Supply with M12 connector.

C. Refer to 3rd Party controller/dimmer manufacturer specifications and installation instructions for wiring details when using a controller/dimmer other than by Fluence.

D. The maximum quantity is up to 50 connected light fixtures per branch. The rated mA capacity of the light controller/dimmer used may support less fixtures per branch. The Fluence Dimmer for example supports a maximum of 25 connected light fixtures total. Please refer to the light controller/dimmer specifications for the application.

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

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