

GE
Lumination

Tetra[®] FX

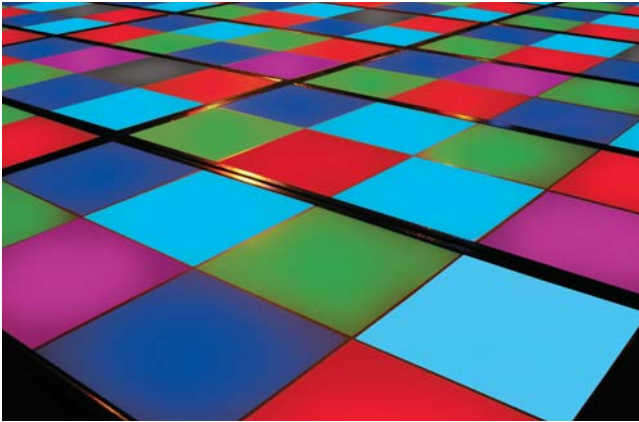
Special Effects Controller



imagination at work

Tetra[®] FX

Creating dynamic lighting effects



Enjoy creative freedom using the Tetra FX special effects controller (GEFX1). Tetra FX interfaces with your standard DMX controller enabling extraordinary flexibility when paired with any 12V or 24V Tetra LED lighting system. The easy to use address selector allows you to create up to 512 unique controller addresses and a variety of dynamic lighting effects including dimming, sequencing, flashing, color changing, chasing and color mixing.

Tetra FX is also equipped with a plug-&-play connector for easy connection to your DMX controller. You can also control up to four different Tetra LED systems per controller. Additional Tetra LED systems can be added by simply daisy chaining Tetra FX controllers together using our Y-splitter cable (GEFXYS).

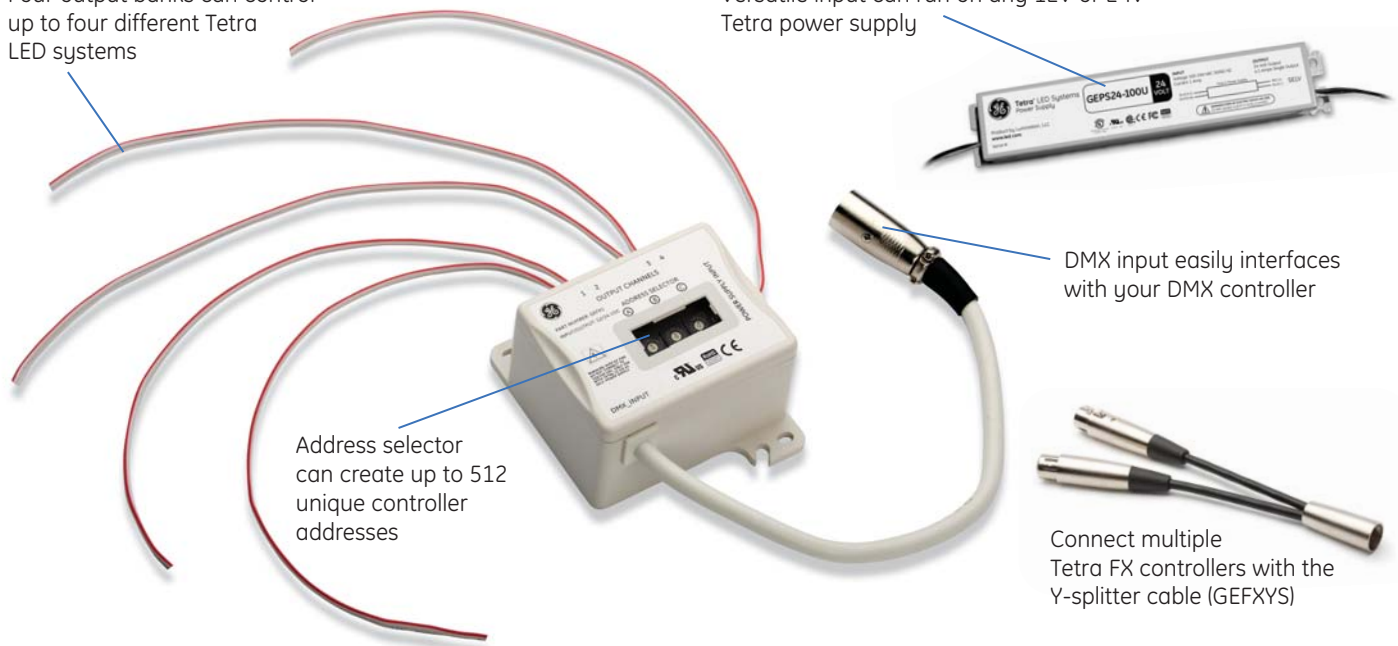
Plus, the easy to install Tetra FX is backed by a 5 year limited warranty.

Bring the benefits of Tetra LED systems to your lighting designs

- Up to 80% more energy efficient than neon
- Long life – up to 50,000 hours
- Simple installation
- Durable & impact resistant

Four output banks can control up to four different Tetra LED systems

Versatile input can run on any 12V or 24V Tetra power supply



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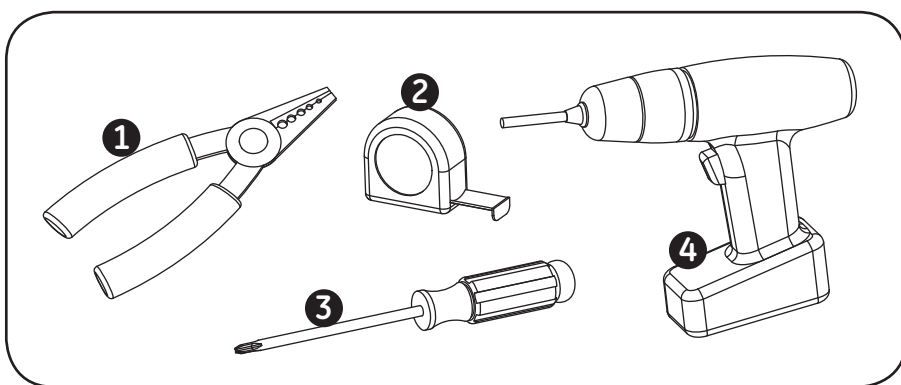
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Tetra[®] FX Special Effects Controller

LED Lighting System

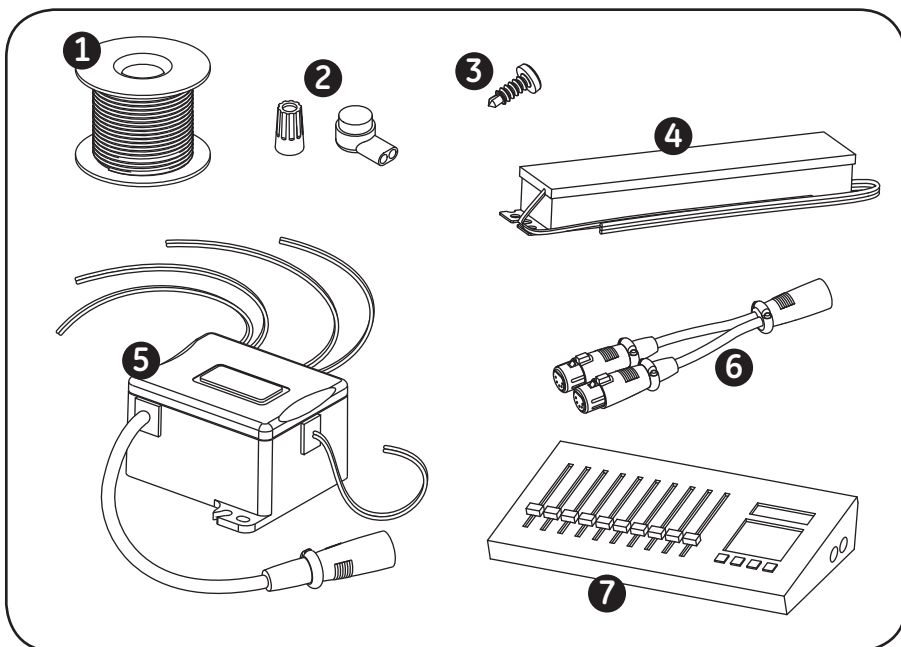
(GEFX1)

Step 1: Tools and Components Required



Tools required:

- 1 Wire stripper/cutter
- 2 Tape measure
- 3 Screwdriver
- 4 Cordless drill

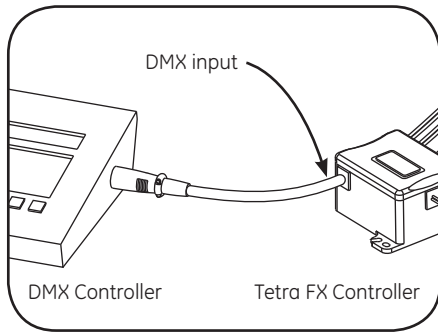


Components required:

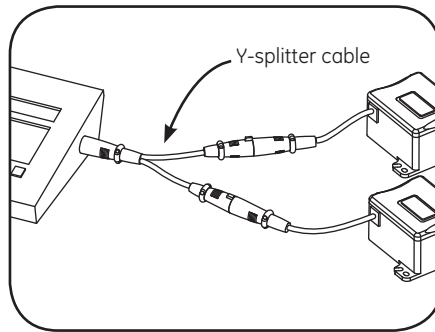
- 1 UL approved 18 AWG (0.82mm²) supply wire (9409)
- 2 UL approved 22-14 AWG twist-on wire connectors (0.33 - 2.08 mm²) or UL approved splice connectors for 18 AWG wire
- 3 #6 or #8 (M3 or M4) self drilling pan headed screws
- 4 Tetra LED Power Supply
- 5 Tetra FX Special Effects Controller (GEFX1)
- 6 Y-Splitter Cable (GEFYXS) (optional)
- 7 DMX Controller



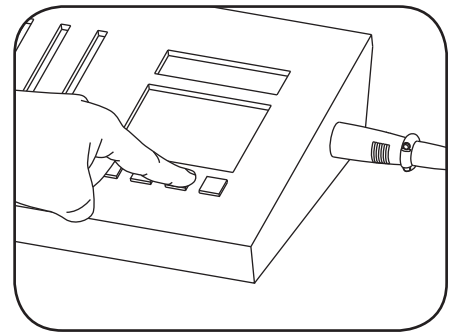
Step 5: Connection to DMX Controller



1 Connect the Tetra FX Controller with attached LED strips and power supply to your DMX Controller using the wire marked "DMX Input."



2 If required, use Y-splitter cable(s) (GEFYXS) to connect multiple Tetra FX Controllers.



3 Set your DMX Controller to match the address selected on the front of the Tetra FX Controller and program the desired special effects.

Address Selector Chart

The chart below outlines the settings you can select for the address selector dials.

Output Address	Selector Dial A	Selector Dial B	Selector Dial C	Output Address	Selector Dial A	Selector Dial B	Selector Dial C	Output Address	Selector Dial A	Selector Dial B	Selector Dial C	Output Address	Selector Dial A	Selector Dial B	Selector Dial C	Output Address	Selector Dial A	Selector Dial B	Selector Dial C
1-4	0	0	0	105-108	0	6	8	209-212	0	D	0	313-316	1	3	8	417-420	1	A	0
5-8	0	0	4	109-112	0	6	C	213-216	0	D	4	317-320	1	3	C	421-424	1	A	4
9-12	0	0	8	113-116	0	7	0	217-220	0	D	8	321-324	1	4	0	425-428	1	A	8
13-16	0	0	C	117-120	0	7	4	221-224	0	D	C	325-328	1	4	4	429-432	1	A	C
17-20	0	1	0	121-124	0	7	8	225-228	0	E	0	329-332	1	4	8	433-436	1	B	0
21-24	0	1	4	125-128	0	7	C	229-232	0	E	4	333-336	1	4	C	437-440	1	B	4
25-28	0	1	8	129-132	0	8	0	233-236	0	E	8	337-340	1	5	0	441-444	1	B	8
29-32	0	1	C	133-136	0	8	4	237-240	0	E	C	341-344	1	5	4	445-448	1	B	C
33-36	0	2	0	137-140	0	8	8	241-244	0	F	0	345-348	1	5	8	449-452	1	C	0
37-40	0	2	4	141-144	0	8	C	245-248	0	F	4	349-352	1	5	C	453-456	1	C	4
41-44	0	2	8	145-148	0	9	0	249-252	0	F	8	353-356	1	6	0	457-460	1	C	8
45-48	0	2	C	149-152	0	9	4	253-256	0	F	C	357-360	1	6	4	461-464	1	C	C
49-52	0	3	0	153-156	0	9	8	257-260	1	0	0	361-364	1	6	8	465-468	1	D	0
53-56	0	3	4	157-160	0	9	C	261-264	1	0	4	365-368	1	6	C	469-472	1	D	4
57-60	0	3	8	161-164	0	A	0	265-268	1	0	8	369-372	1	7	0	473-476	1	D	8
61-64	0	3	C	165-168	0	A	4	269-272	1	0	C	373-376	1	7	4	477-480	1	D	C
65-68	0	4	0	169-172	0	A	8	273-276	1	1	0	377-380	1	7	8	481-484	1	E	0
69-72	0	4	4	173-176	0	A	C	277-280	1	1	5	381-384	1	7	C	485-488	1	E	4
73-76	0	4	8	177-180	0	B	0	281-284	1	1	9	385-388	1	8	0	489-492	1	E	8
77-80	0	4	C	181-184	0	B	4	285-288	1	1	D	389-392	1	8	4	493-496	1	E	C
81-84	0	5	0	185-188	0	B	8	289-292	1	2	1	393-396	1	8	8	497-500	1	F	0
85-88	0	5	4	189-192	0	B	C	293-296	1	2	4	397-400	1	8	C	501-504	1	F	4
89-92	0	5	8	193-196	0	C	0	297-300	1	2	8	401-404	1	9	0	505-508	1	F	8
93-96	0	5	C	197-200	0	C	4	301-304	1	2	C	405-408	1	9	4	509-512	1	F	C
97-100	0	6	0	201-204	0	C	8	305-308	1	3	0	409-412	1	9	8				
101-104	0	6	4	205-208	0	C	C	309-312	1	3	4	413-416	1	9	C				

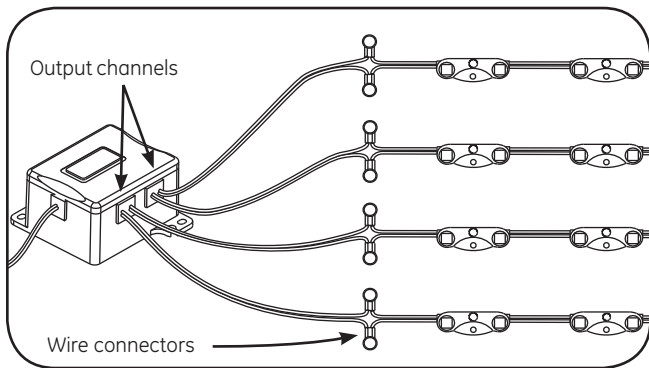
Installation Guide

Step 2: Tetra LED Strip Installation

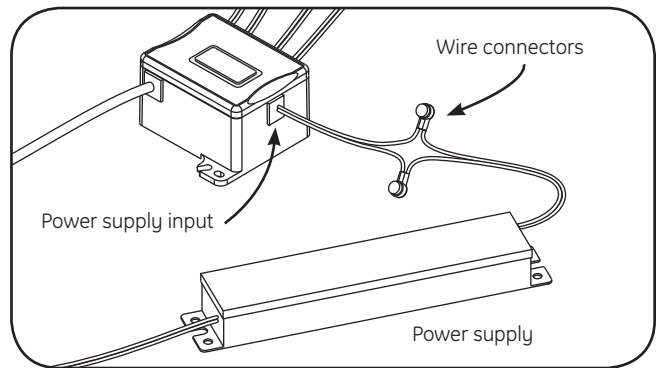
Install the Tetra LED System in your system according to the Installation Instructions that are provided with that LED system.

The Tetra FX Controller has four output banks which allows for four separately controlled sections of your Tetra LED System. The total length of LED strip that can be supported by the total FX system is limited by the maximum load supplied by the Power Supply. Refer to the Power Supply Installation Instructions for your Tetra LED System to determine the maximum loads that you can connect to a single Tetra FX Controller and power supply. If you need to achieve a length of LED strip longer than the maximum listed, the additional length will need to be connected to a separate Tetra FX Controller and power supply.

Step 3: Tetra FX Connection



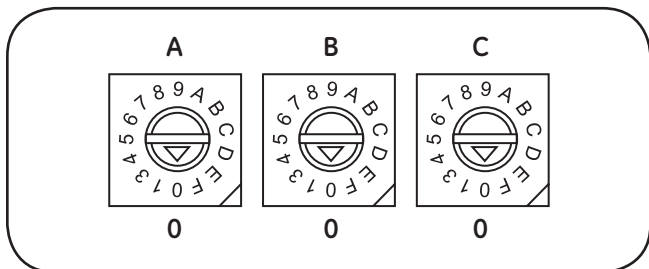
1 Attach the Tetra LED System to the wires marked "Output Channels" on the Tetra FX Controller using the appropriate wire connectors.



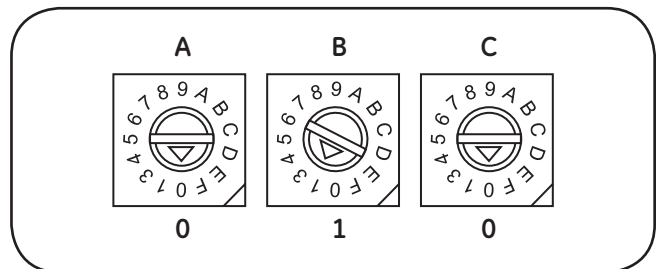
2 Attach the correct power supply output wire to the wire marked "Power Supply Input" on the Tetra FX Controller using the appropriate wire connectors.

Step 4: Set Address Selector

Set the address of the four outputs using the selector dials on the front of the Tetra FX Controller. The address can be set in groups of four ranging from 0 to 512. Refer to the chart on the next page of this document for a complete list of address selector settings.



NOTE: When all selector dials set on the default position of 0 (as shown), the corresponding addresses of the output channels are 1, 2, 3 and 4.



EXAMPLE: To set the outputs to address 17, 18, 19, and 20, set Dial A to 0, Dial B to 1 and Dial C to 0.

⚠ WARNING!

RISK OF ELECTRIC SHOCK:

- Turn power OFF before inspection, installation or removal.
- Properly ground Tetra Power Supply enclosure.
- Shut off power at fuse box or circuit breaker before installation.



RISK OF FIRE:

- Follow all NEC and local codes.
- Use only approved wire for input connection. Minimum size 1.02mm

Conforms to the following standards:



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