

Drama SpecTrac



Drama SpecTrac provides power and low voltage data distribution to small and medium sized luminaire's.

Small Track heads can mount directly into the track via their adapter, while larger fixtures can be clamped to the DataTrack Drama housing with standard C-clamps.

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845-947-3034
www.tslight.com

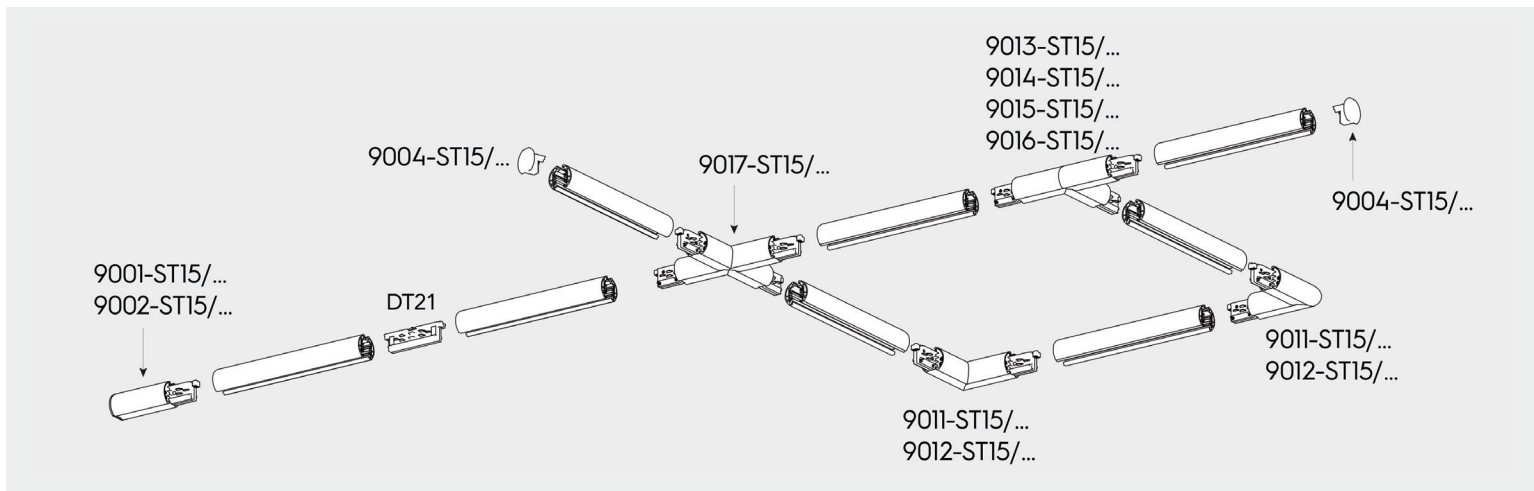


Applications Include:

- Theatres
- Schools
- Lobbies
- Ballrooms
- Retail

Electrical

- Three circuit with common neutral
- 120V / 20A per circuit
- Data for DMX, or 0-10V built into extrusion.
- There is only one data control bus on the track, therefore, all circuits will be sharing the same control signal.



NOTE: Every joint requires a reinforcing bracket P/N S-9500/314

Drama SpecTrac Part Numbers

DESCRIPTION	BLACK	WHITE
Drama SpecTrac		
4 ft. DramaTrack	9000-UL4/B - ST15	9000-UL4/W - ST15
8 ft. DramaTrack	9000-UL8/B - ST15	9000-UL8/W - ST15
Accessories		
Live End Feed	9001-ST15/B	9001-ST15/W
Mirror Feed	9002-ST15/B	9002-ST15/W
DMX Terminator	9002-ST15/B/TERM	9002-ST15/W/TERM
Joiner	DT21B	DT21W
Reinforcing Bracket for Joining Connector	S-9500/314	S-9500/314
T-Coupler	9013-ST15-B	9013-ST15-W
T-Coupler	9014-ST15-B	9014-ST15-W
T-Coupler	9015-ST15-B	9015-ST15-W
T-Coupler	9016-ST15-B	9016-ST15-W
X-Coupler	9017-ST15-B	9017-ST15-W
L-Coupler	9011-ST15-B	9011-ST15-W
L-Coupler	9012-ST15-B	9012-ST15-W
End Cap	9004-ST15-B	9004-ST15-W
Pendant Mount Bracket	S-9000/113-M-B-S	S-9000/113-M-W-S
Tool for Cutting Conductors	DTCT	DTCT



Black O-Clamp
CELL-208-B



Convenience Outlet
DT2-PC PowerCon
DT2-ED Edison

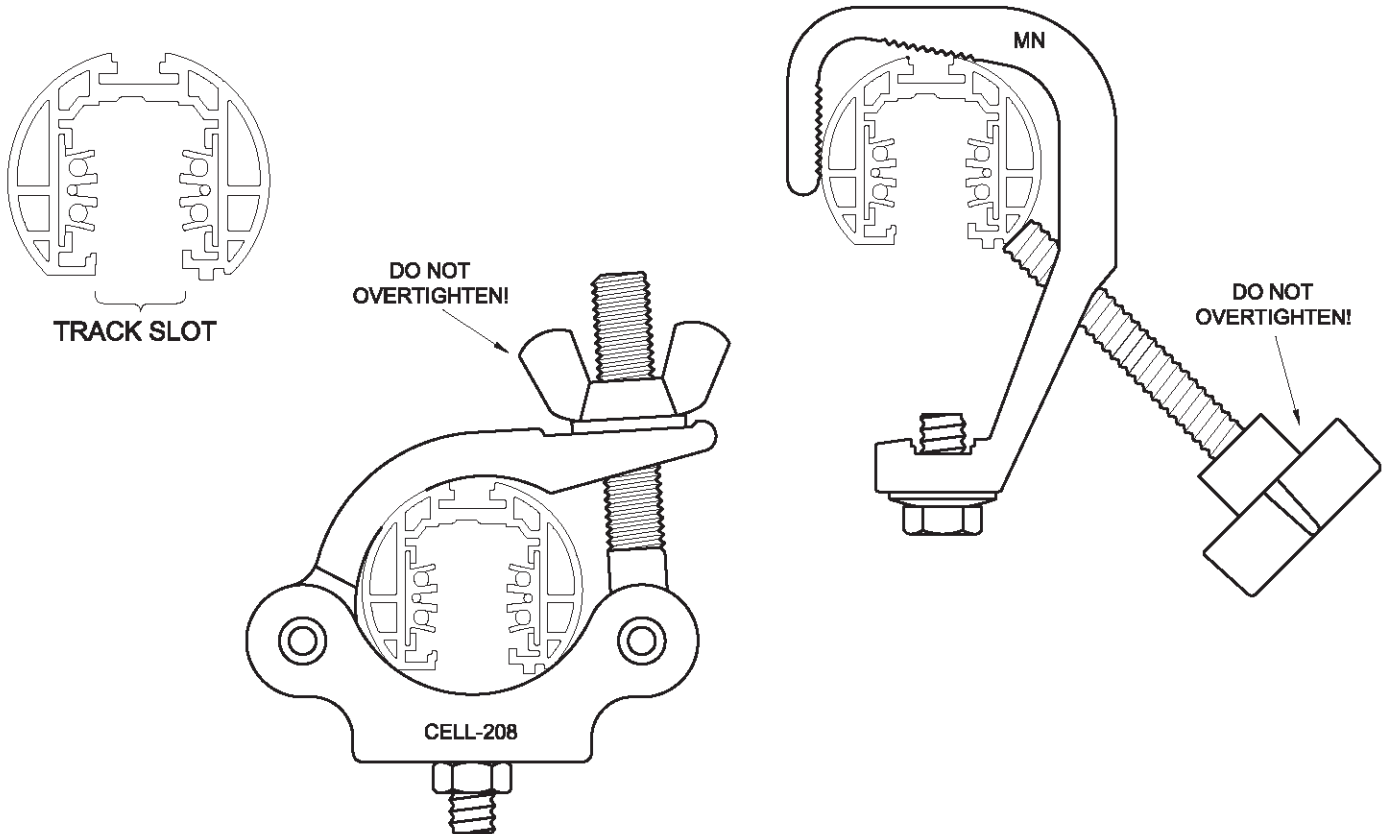


Convenience Data Outlet
DT2-XLR5 5-Pin XLR
DT2-XLR3 3-Pin XLR

Guidelines for Track System Layouts

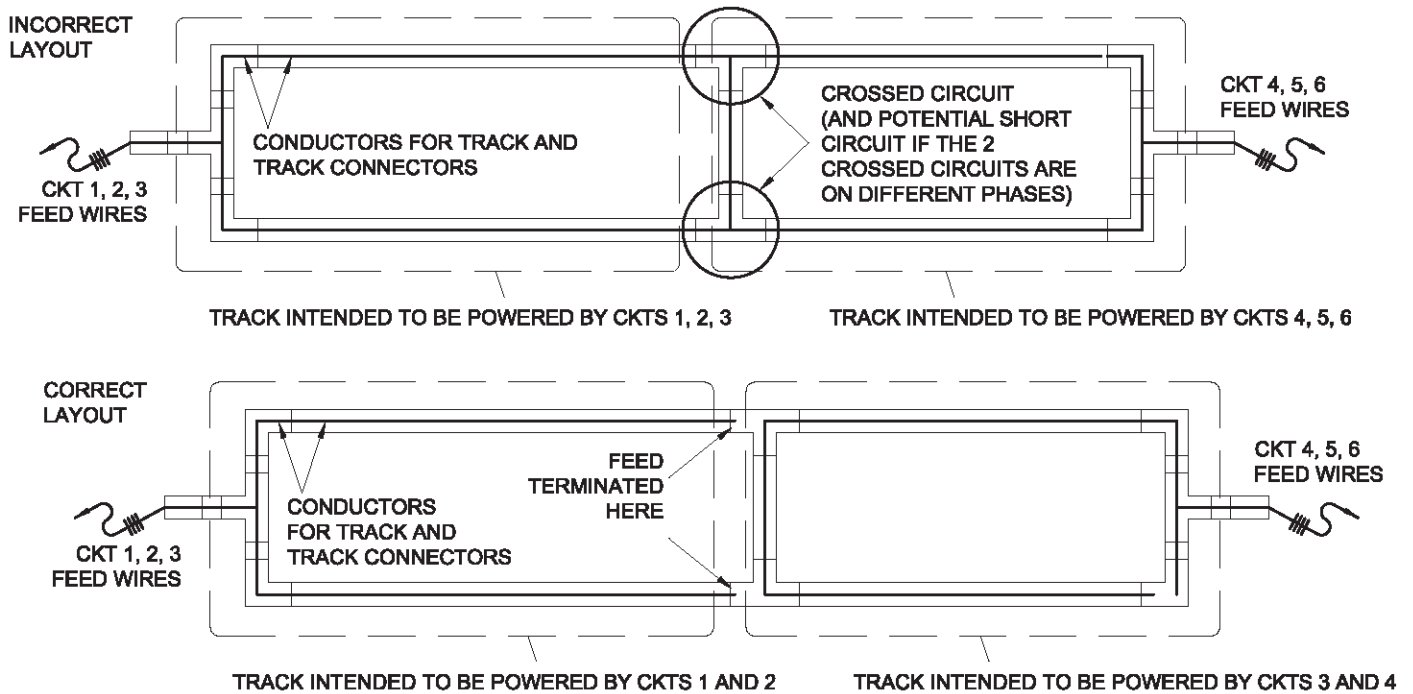
Drama Track can be fed electrical power via Live End Connectors (sometimes referred to as End Feeds) or Current Limiters*. The other types of connectors, which are X, T, and L Connectors, will physically and electrically connect the track sections together but cannot introduce electrical power to the track. When creating layouts with this track, it is important to keep the polarity consistent throughout the design. The track has a groove along its length to indicate polarity. The Connectors, Joiners, Dead Ends and Current limiters have screws on their tips that align and engage with the polarity grooves in the track. **iter* Specifications**

CAUTION: Although a typical layout using Drama Series Track has the *appearance* of a truss system, it is not as robust as truss, and should never be used as a truss system. Use only Times Square approved Lighting Fixtures and components (clamps, safety cables, etc.). Never exceed the 11lb/ft Maximum track loading. When installing Times Square approved clamps and safety cables to the outer surface of the track, make certain that no portion of the clamp, bolt, screw, safety cable, power cable or the like encroach into the track slot. See diagram below, left. If a clamp is used, make certain that the clamp or any portion thereof does not deform the track. See diagrams below, center and right. For fixtures over 3lbs., CELL-208 clamps are recommended.

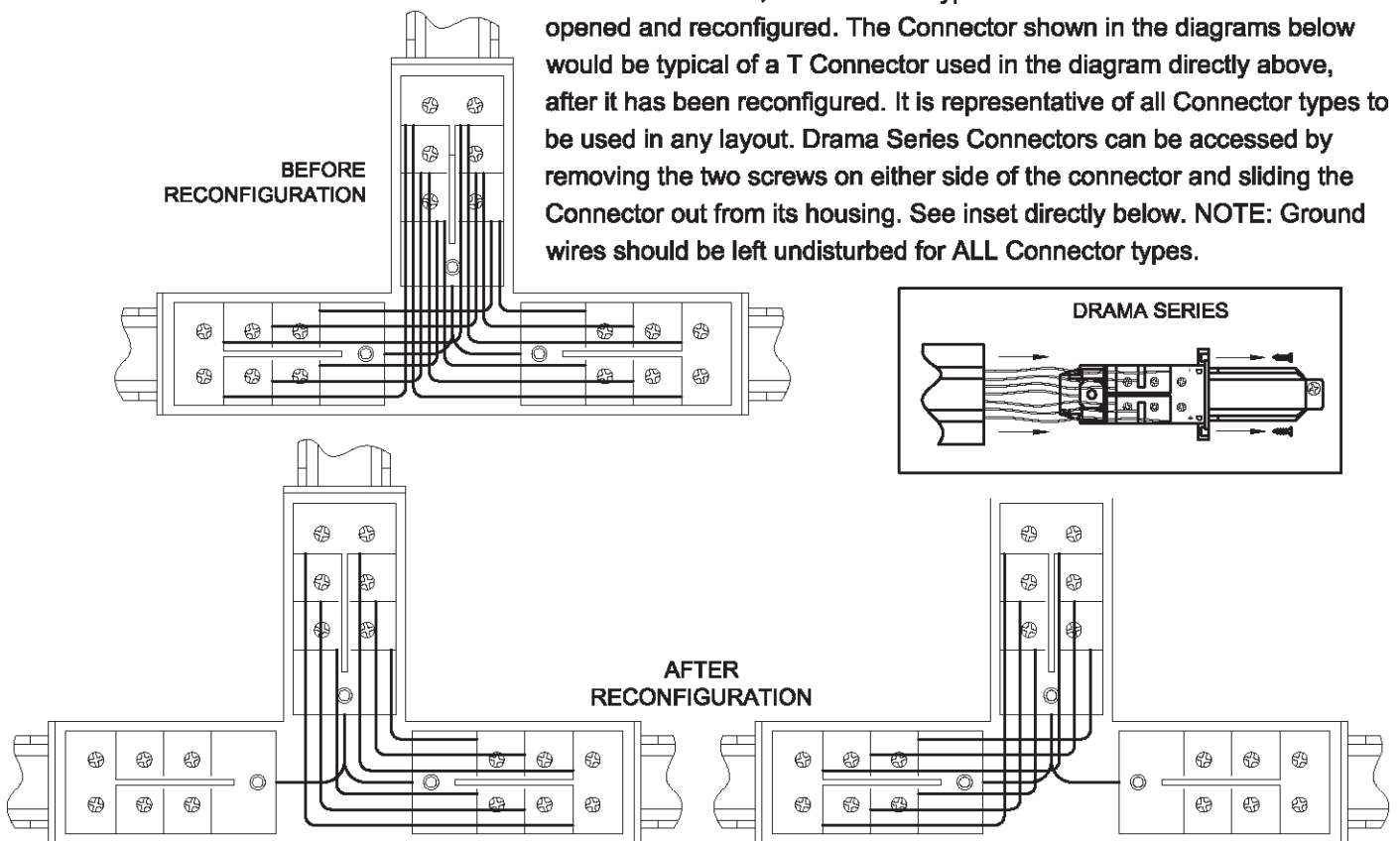


Guidelines for Track System Layouts (Continued)

Complex layouts often have more than one feed point, and the potential exists for short or crossed circuits. The first diagram below shows how short or crossed circuits can be created. The second diagram below illustrates how short circuits can be avoided.



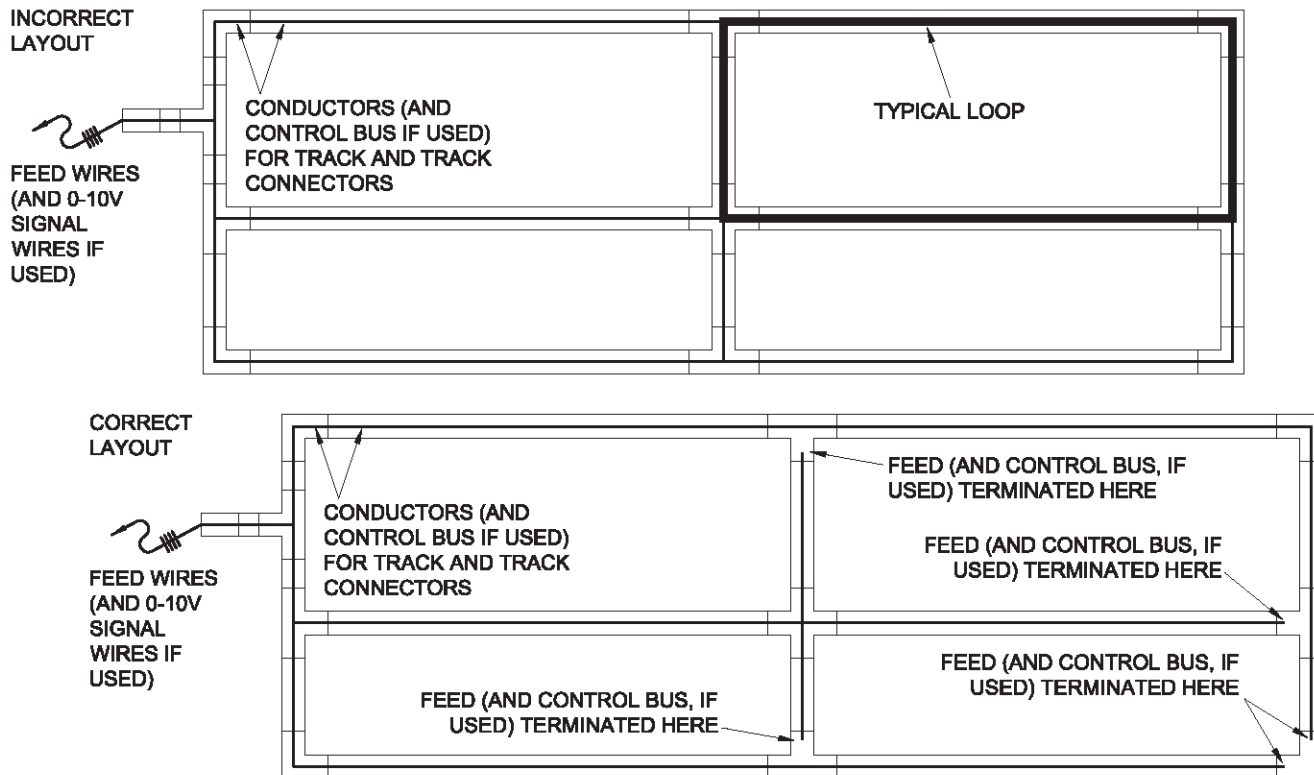
As the need arises, all Connector types and all Current Limiters can be opened and reconfigured. The Connector shown in the diagrams below would be typical of a T Connector used in the diagram directly above, after it has been reconfigured. It is representative of all Connector types to be used in any layout. Drama Series Connectors can be accessed by removing the two screws on either side of the connector and sliding the Connector out from its housing. See inset directly below. NOTE: Ground wires should be left undisturbed for ALL Connector types.



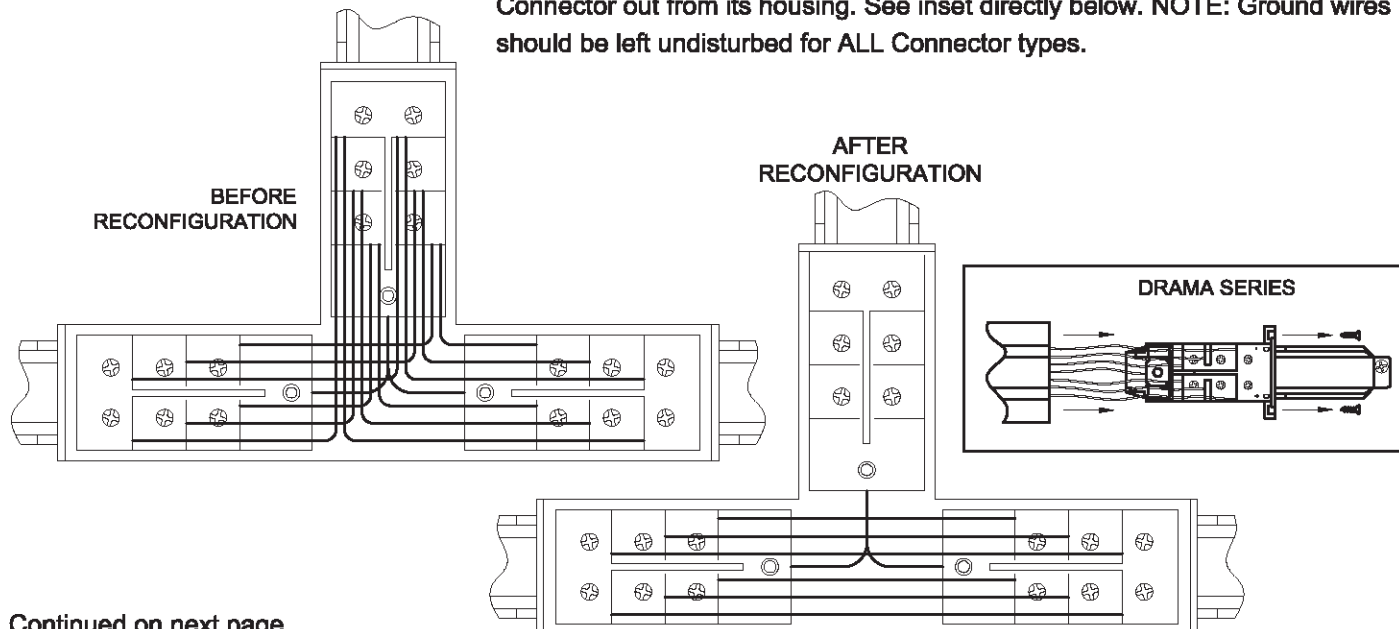
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Guidelines for Track System Layouts (Continued)

It is good practice to eliminate wiring loops for power conductors and the control bus conductors on complex layouts. The first diagram below shows how loops are created, with a typical loop highlighted for clarity. The second diagram below illustrates how loops can be avoided. Complex layouts using DMX control wiring will be discussed on the next two pages. Also, see Page 11 for more requirements on Data Track using 0-10V control and DALI.



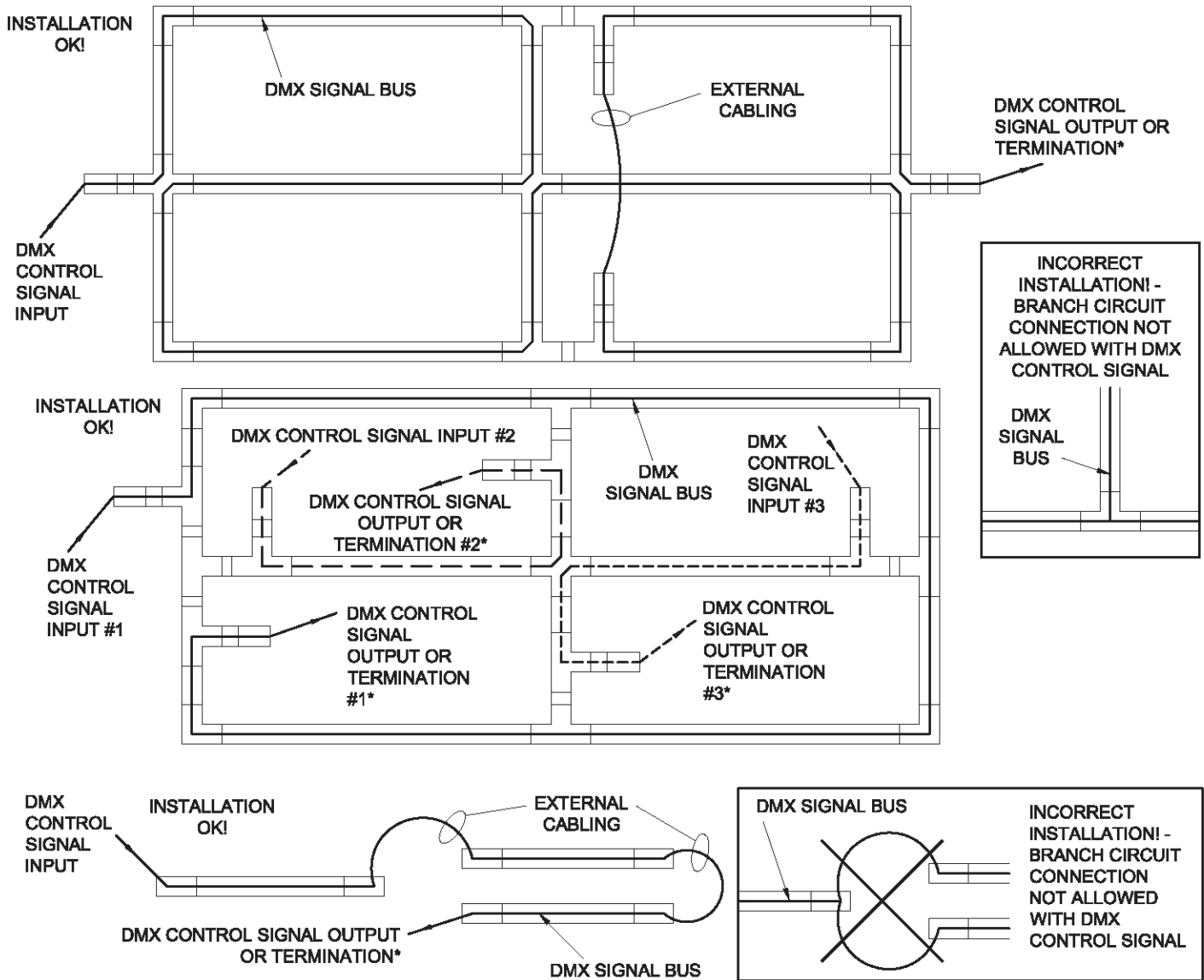
As previously stated, all Connector types and all Surface/Suspension Mount Current Limiters can be opened and reconfigured. The Connector shown in the diagrams below would be typical of a T Connector used in three places in the diagram directly above, after it has been reconfigured. It is representative of all Connector types to be used in any layout. Drama Series Connectors can be accessed by removing the two screws on either side of the connector and sliding the Connector out from its housing. See inset directly below. NOTE: Ground wires should be left undisturbed for ALL Connector types.



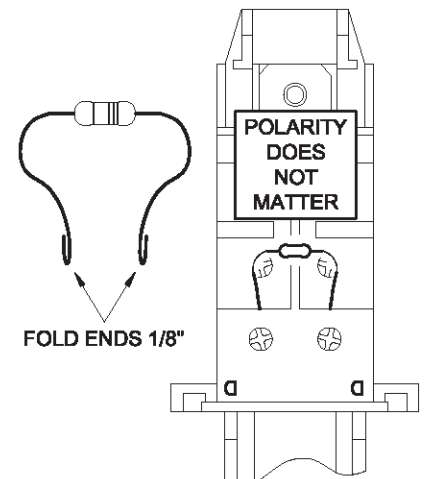
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Guidelines for Track System Layouts (Continued)

It is imperative that all DMX control wiring on any layout be run in a daisy chain fashion. No loops or branches such as T's or X's are allowed. The layout possibilities are endless, but the diagrams below show the basics of how loops and branch circuits are avoided. See the next page for more requirements on Data Track using DMX control.



* All DMX control runs must be terminated with a 120 Ω resistor. If the end of the DMX control run is within the track layout, then this can be accomplished in two ways: 1) By adding a track adapter with a terminating resistor pre-installed at the very end of the track, closest to the last connector or the dead end in the run (All Drama track adapters are available with resistors installed from the factory by adding "-TERM" at the end of the part number), or, 2) By installing the resistor across the D+ and D- screw terminals on the last connector in the run (All Drama Live Ends and Mirror Live Ends are available with resistors installed from the factory by adding "-TERM" at the end of the part number). See diagrams to right. The polarity of the resistor does not matter.



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Guidelines for Track System Layouts (Continued)

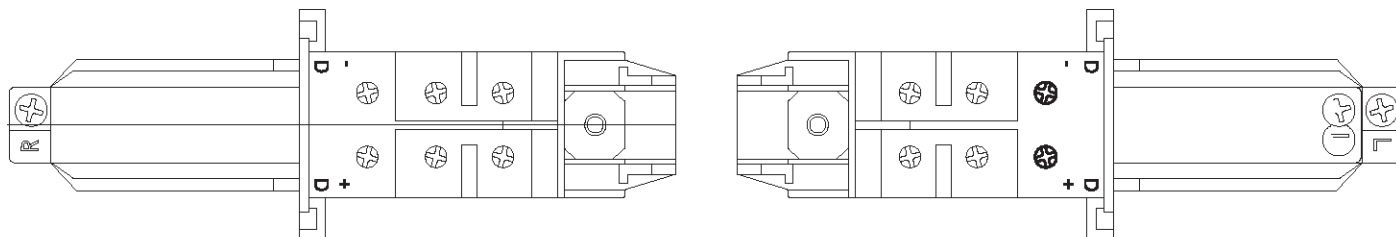
SPECIAL CONSIDERATIONS FOR DMX CONTROL

DMX control runs should be limited to 1000 feet maximum, including track and all intermediate control cabling. There should be no more than 32 fixtures and devices (including splitters) on a single DMX control run. The control bus in the track has a capacitance that can affect signal integrity compared to runs composed of cable only. Therefore, when using fixtures with DMX that have Remote Device Management (RDM) capability, there should be no more than 20 fixtures and devices (including splitters) on a single DMX/RDM control run.

The control bus in the track has only two conductors. Typical DMX systems consist of three conductors: Data +, Data - and Signal Common. If the intermediate control cabling to, from, or between the track consists of shielded twisted pairs, then the shield is Signal Common. The Signal Common when using this track is not used. Make certain that NO portion of the shield or shield wire (aka drain wire) is connected to the track, or bonded to or incidentally in contact with Ground, or anything electrically connected to Ground. If the intermediate control cabling to, from, or between the track consists of unshielded twisted pairs, such as Cat5, Cat5e, Cat6 or Cat6e, then only the Orange / White (Data +) and the Orange (Data -) wires are to be used. See chart below.

Data Track Connector	Shielded Twisted Pair with Standard DMX Connector (XLR)	Unshielded Twisted Pair (Cat5, Cat5e, Cat6 or Cat6e)
D+	Data + [Any Color], Pin 3 on XLR Conn.	Orange / White
D-	Data - [Any Color], Pin 2 on XLR Conn.	Orange
not used	Signal Common (bare drain wire), Pin 1 on XLR Conn.	Brown / White

Depending on the polarity of the Connector, D+ and D- are located as shown below:



SPECIAL CONSIDERATIONS FOR 1-10V CONTROL

It is important to remember that although all track has multiple power circuits, there is only one signal bus circuit. For fixtures requiring 0-10V dimming controls, all fixtures connected to the 0-10V bus will receive the same dimming signal regardless of what power circuit they are on. The maximum number of fixtures on a control run depends on the 0-10V control device that is used.

SPECIAL CONSIDERATIONS FOR DALI CONTROL

The maximum control run between the first and the last DALI components may not exceed 984 feet. The maximum number of fixtures on a control run depends on the DALI control device that is used. The DALI standard specifies a voltage of 16V DC (typical), 22.5V MAX and a current of 250mA. The voltage drop may not exceed 2V. DALI fixtures should have a maximum consumption of 2mA. DALI control wiring on any layout may be run in a daisy chain or a star arrangement or in mixed form. The control signal has no polarity.