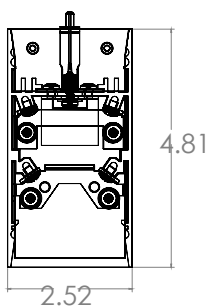
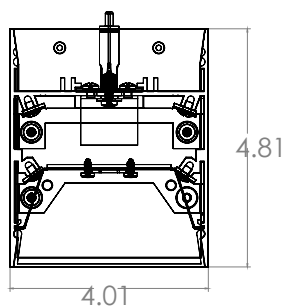


CUSTOM
COLORS



2" PROFILE



4" PROFILE

LUMENS/FT	ELITE
750	10W

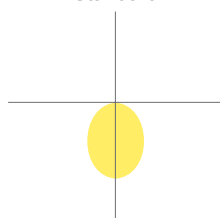


DYNAMIC PLATFORM

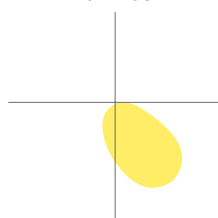
RGB + White technology has a white color tuning range from 6000K to 1800K. RGB color range derived from the primary colors red, green and blue is used to create infinite color options in the RGB palette, adding colors together in varying amounts to create new ones. RGB Tunable White technology enables users to adjust the color temperature, adding gradients of saturated colors. No longer restricted to white light LEDs, lighting designers and architects can manipulate a space with desired hues and shades, altering the color temperature of the room, creating the perfect environment. The use of RGB Tunable White technology in healthcare and assisted living stimulates circadian rhythm, accelerating the healing process.

LUMENS PER FOOT	Elite Platform: 750
CCT & DYNAMIC PLATFORMS	Elite Platform: RGBW 60K-18K (RGB + 60K to 18K)
CRI	90+ Standard
COLOR QUALITY	2 Step MacAdam Ellipses
APERTURE	2", 4"
LENGTHS	2', 4', 6', 8', Custom
DISTRIBUTION PATTERNS	Standard, Wall Wash
CONFIGURATION PATTERNS & LENGTHS	Single, Continuous, Square, Rectangular, L-Shape, Custom with 90, 60, or 45 ° Angles
MOUNTING	Suspended
FINISH	WH (White), BK (Black), SI (Silver), Custom RAL
DIMMING & CONTROLS	DMX-512/RDM
EMERGENCY	ELI-S-20, PELI-S-100, PELI-S-250, PELI-S-400
LIFETIME	L70 at 50,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

Distribution Pattern:
Standard



Distribution Pattern:
Wall Wash



**FEATURES**

FLEX Architectural LED Suspended Linear is "Performance Designed for You", combining the ultimate in flexibility and creativity, with continuous, uniform and glare-free illumination. Available in direct standard or wall wash distribution, with continuous mounting and fully illuminated corners for a seamless connection from luminaire to luminaire, in a variety of formed angles and shapes. Be inspired to create a long-lasting impression with a unique design that complements corporate offices, educational, commercial, and retail spaces.

OPTICS & PERFORMANCE

Fabricated from 20-gauge aluminum, with mitered corners, and post-painted with 95% reflective premium paint. The optical system delivers high efficiency LED light that passes through a high quality acrylic lens for optimal distribution patterns, creating a glare-free and even distribution. Distributions include Direct Downlight or Wall Wash with zero light leakage.

CONSTRUCTION

One-piece rigid aluminum extrusion, made of T6063-T5 aluminum, with cast aluminum end caps. A precision cut, smooth white extruded frosted lens with snap in design attaches firmly into the grooves of the body and can be easily removed for access to the driver and LED boards.

OPTICAL ASSEMBLY

Reflector is fabricated from 20-gauge aluminum, and post-painted finish with 95% reflective premium paint. Wall Wash reflectors are positioned at an angle.

DISTRIBUTION PATTERNS & DIFFUSER

Standard Distribution-A high-quality, smooth white frosted efficient acrylic lens is shipped standard for optimal distribution patterns, for most applications, and provides glare-free, even illumination.

Wall Wash Distribution-Illuminates from the ceiling, down, for uniform vertical illumination.

SUPPORT CABLE/FEED

Standard suspension is conductive feed/suspension cable. The adjustable power cable comes in a standard 5' length. A 5-conductor cable is standard or a 6-conductor cable for emergency power. Field adjustable length. Max. Support every 8 feet.

RGB + TUNABLE WHITE

Elite Platform RGB+W platform produces a full spectrum of brilliant colors with tuning range of 6000K to 1800K (RGBW-60K-18K).

Control via ELITE-CONNECT DMX WALL CONTROLLER (SR-2812), ELDODMX.1
Control via, DMX-512/RDM.

CRM INSTALLATION

For continuous row mounting, the first luminaire in the row will always be the power supply feed. After plugging in the male and female harnesses, which are supplied with each luminaire, they will easily slide together, then secured with two screws from opposite directions in the connecting brackets.

DRIVER ELECTRICAL INFORMATION

Powered by high-quality constant-current power LED drivers which are rated for 50 to 60Hz at 120-277V input, produce less than 20% THD, and have a power factor of .90 to 1.00. Male and female 18-gauge 6 wire plug connectors are included with every luminaire to allow for simple hassle-free continuous wiring, and each luminaire must be installed male to female.

WARRANTY

Five-year warranty for parts and components. (Labor not included)

LISTINGS

c-UL-us - Listed for Feed Through Wiring.

All LED luminaires are rated and tested to LM-79 and LM-80 standards by an independent laboratory.

Damp Location Rated.



Example: **OLS-D-LED-2-S-4-RGBW-60K-16K-750L-DMX-512/RDM-MVOLT-90-WH**

OLS-D-LED

SERIES

OLS-D-LED-

Oracle

Suspended

LED Linear

WIDTH

2 - 2"

4 - 4"

SHAPE

S - Single Unit

CR - Continuous Run

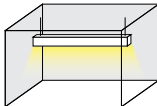
REC - Rectangle

CUS - Custom

(Consult Factory)

Single Run

2, 4, 6 OR 8"



TECH

ELITE PLATFORM

RGBW-60K-18K

LUMENS

750L / foot

DISTRIBUTION

(blank) - Standard

WW - Wall Wash

DIMMING

ELITE PLATFORM

ELDD00MX.1 - EddLED DMX

VOLTAGE

120

277

MVOLT

CRI

90

EMERGENCY

PELI-S-20

PELI-S-100

PELI-S-250

PELI-S-400

FINISH

WH - White

SI - Silver

RAL - Consult factory

OTHER OPTIONS

FBF - Internal Fast Blow Fuse

SBF - Internal Slow Blow Fuse

RIS - Radio Interference Sensor

USA - Made in America Compliance

SUSPENSION

OC6SS

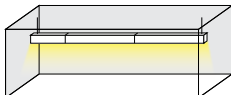
Cont. Run

XX . YY*

*XX is Length in Feet

YY is Fraction in Inches

e.g. 22.6 is 22 feet and 6 inches



TOTAL RUN

←

→

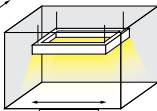
Rectangle

W

L

WIDTH

↗

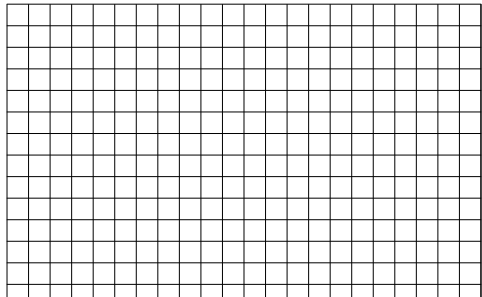


LENGTH

→

Custom

DRAW YOUR CUSTOM SHAPE HERE



- ELDODMX, ELDODALI available 120-277

* For BLE Dimming Option Please Consult Factory



1.1 DMX512-A Protocol Specifications

DMX512-A is an acronym for Digital Multiplex, a communication protocol used to remotely control lighting dimmers and intelligent fixtures. It is designed to provide a common communications standard between these lighting devices regardless of the manufacturer. The 512-A after the DMX refers to the number of control channels used on one network segment (often called a 'universe') of devices.

DMX512A Specifications:

- DMX 512-A (Controller).
- A universe is 512 Channels.
- DMX value is between 0 and 255, where 0 is off and 255 is full on.
- The maximum number of devices in a daisy-chain wire run is 32, which include the controller and opto-splitter.
- The maximum network wire run is a distance of up to 1600 feet for non-RDM systems and up to 1000 feet for RDM systems.
- One device functions as the master (DMX controller) on a network, while the rest function as slaves (mergers, splitters, intelligent fixtures, etc.).
- Only the controller (master) transmits over the network, and all fixtures receive the same data.
- The final device in the daisy-chain must be terminated with a 120 ohm resistor between DMX+ and DMX- pins.
- It is recommended that the terminator for the final device be located in the control panel, if it falls within the recommended wiring distance.
- All wiring must be in a continuous run and daisy-chained.
- Star wiring is only allowed in conjunction with an opto-splitter.
- Do not run DMX control cable in close proximity to AC power lines. EM spikes from switching of high-current devices such as HVAC equipment or generators will induce noise into the DMX cable.
- The shield must be carried through between modules and properly grounded at one point only.
- Connections to DMX512-A-RDM accessory board: wire size to be 24AWG, and solid or stranded cables may be used. Stranded wire used must be tinned or installed with ferule connector.

RDM

DMX512-A control protocol that enables Remote Device Management for two-way communications for configuration, monitoring and system setup. Allows two way communication between lighting controller and the fixtures. Allows for remote setting of DMX start addressing. RDM signals are sent back the other way, but not constantly. Controller can ask one or more devices for query feedback. RDM packets are inserted in-between the existing DMX data packets being used to control the lighting. The DMX Control Console will broadcast up to 512 channels over one DMX cable (max. run of 1000 feet for RDM). Some of these channels may not be used, but will still be transmitted, as required by the protocol. It must be set to a desired channel (001, 002, 003, 004, etc.) to control the connected light fixture. This is usually accomplished using RDM. This desired 'channel' is commonly known as the DMX address. When addressing fixtures, it is not recommended to skip addresses.

The DMX512-A interface follows the ANSI E1.11-2008 (R21013) standard. Four address slots are allocated to each interface board and control the Dim level, CCT, Saturation and Hue of the array⁵ modules connected to the board.



1.2 DMX512-A Electrical Specifications

Parameter	Range	Remarks
ESD Protection	$\pm 15\text{KV}$ (air), $\pm 8\text{KV}$ (conducted)	Per IEC 61000-4-2
Termination	Recommended	The DMX512 bus termination rules apply
Directionality	Receive only	
Frequency stability	$\pm 20\text{ppm}$	
Load per port	1/256	1/8 of Nominal RS-485
Isolation	3KV_{rms}	

DMX512-A Control Systems (recommended list)

Choreo
 Cognito
 Crestron Greenlight System
 Entec
 ETC Mosaic
 ETC Paradigm
 Fresco
 Interactive Technologies
 Lutron HomeWorks QS
 Lutron Quantum
 Nicolaudie
 Pathway Connectivity
 Pharos
 Traxon Ecue
 Vantage Controls

DMX512-A Recommended Internal / Field Wiring

TMB Cable ProPlex DMX

PC224T: 2-pair DMX512 cable, overall foil and braid shielding with drain wire. UV and fungus resistant. Fully rated for installations, yet easy handling for light duty portable applications. **PC224TW:** Same as above, with white jacket.

For use as DMX in/out under one jacket:

PC244T: Two individually shielded pairs and drain wires. UV resistant. Color coded foil shielding for easy reference.



DMX512-A PROTOCOL

1.3 DMX512-A Recommended Field Wiring

Liberty 24-2P-485 (Non-Plenum), 24 AWG, 2 pair dual 120 ohm, 11.2 pf/ft low capacitance (Wago, XLR and PHX connectors)

Liberty 24-2P-P485 (Plenum), 24 AWG, 2 pair dual 120 ohm, 11.2 pf/ft low capacitance (XLR and PHX connectors)

Belden #9842 (Non-Plenum), 24 AWG, 2 pair dual shielded 120 ohm, 12.8 pf/ft low capacitance (XLR and PHX connectors)

Belden #89842 (Plenum), 24 AWG, 2 pair dual shielded 120 ohm, 12.8 pf/ft low capacitance (XLR and PHX connectors)

Please refer to wire manufacturer's lighting catalog for and/equals as required by code.

Category Wire or Equal

The Entertainment Services and Technology Association (ESTA) does not define a maximum run length for DMX over Cat5 since many factors will affect the maximum run length, such as number of devices, number of splices in the cable, the strength of the DMX transmitter(s), if Remote Device Management (RDM) is being used, and sources of interference. ESTA does state (again, in ANSI E1.21-2):

"A properly selected and installed DMX512 cable should provide acceptable signal strength for runs of 300m (1000ft). Please note that the technical requirements, such as run-length and topology for other networking technologies, such as Ethernet, should be considered if using the installed cable for another networking technology in the future is anticipated."

Cat5 or equivalent is not preferred as a portable cable since it is not as rugged as other DMX cables. Male RJ45 connectors are especially prone to breakage over repeated re-connections.

DMX512-A Recommended Field Connectors (or Equal)

WAGO 221

PHOENIX CONTACT

XLR NEUTRIK

CRESTRON

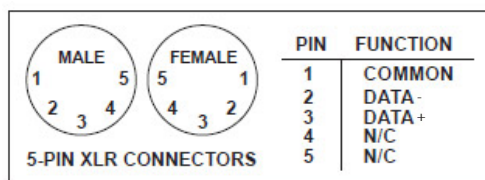
RJ45 DM-8G-CONN

RJ45 IDC DM-CONN

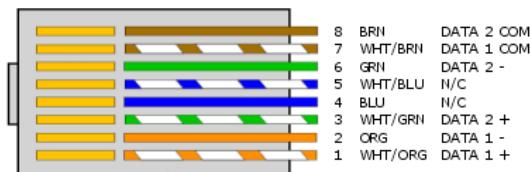
DMX512-A Wiring Connections

Signal	Description	Pin Colors (4-Pair Cable)	Pin Colors (2-Pair Cable)	3-pin XLR connector	5-Pin XLR connector	5-Pin PHX connector
Signal Common		White/Brown and Brown	White/Blue and Blue	1	1	1
Data (-)	Primary Data Link	Orange	Orange	2	2	2
Data (+)	Primary Data Link	White/Orange	White/Orange	3	3	3
Data2 (-), or not used	Optional Secondary Data Link				4	4
Data2 (+), or not used	Optional Secondary Data Link				5	5

XLR Connectors (5-Pin)



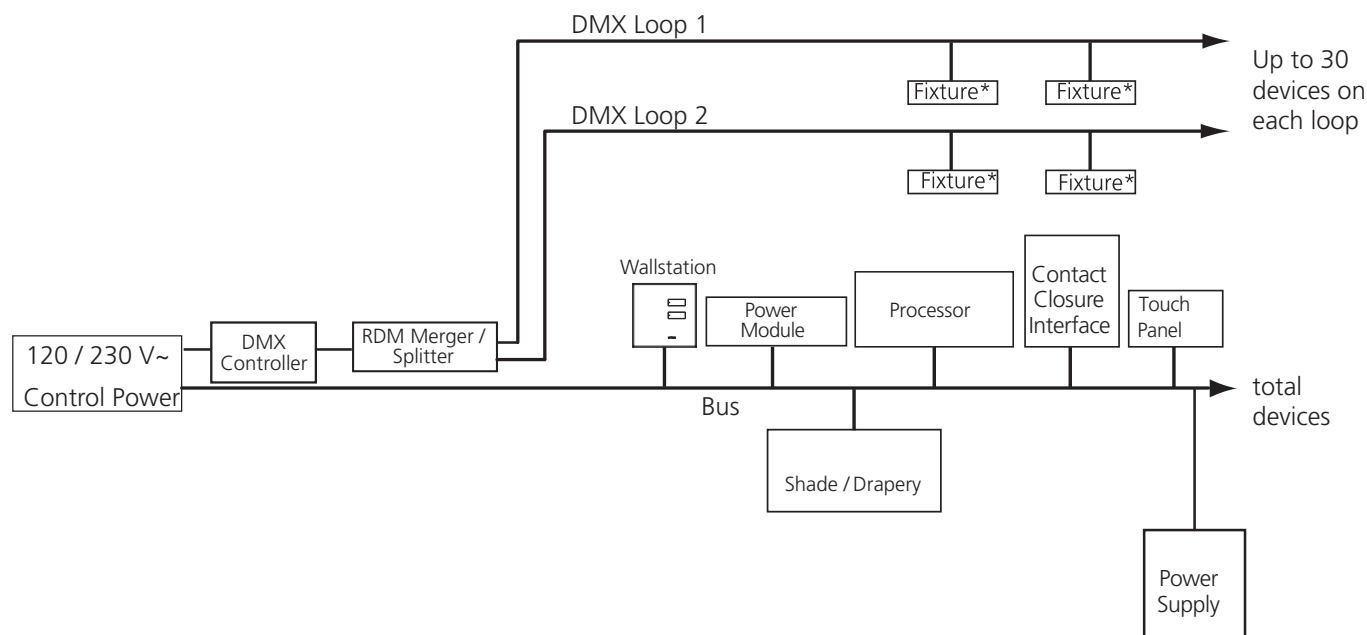
RJ-45 Connector Pin-Out (T568B)





DMX512-A PROTOCOL

1.4 DMX512-A Controller Example DMX512A Example



DMX512-A Drain Wire Connections

Drain wire connections are required as follows.

Shielding

To add another level of protection from electromagnetic noise, a grounded shield is added over the twisted pair wires. When this is enclosed in a protective jacket, to avoid ground loops and electromagnetic contamination of the ground system, all control ground wiring, including cable shields and drain wires, should be treated like sensitive current-carrying conductors. All control ground wires should be insulated (not bare) and the same wiring practices should be observed with ground wires as with other sensitive signals. Care must also be taken when designing control wiring to ensure that each shield is connected to only a single ground point. You should establish this point at a central location, like a control panel or cabinet, and avoid all connection to grounds in the field. A control ground is sometimes referred to as an isolated ground (an oxymoron) for this reason, but the term single-point ground is more accurate.

Method-1

A typical two-pair shielded cable can be prepared for termination to the terminals with the drain wire cut off. This is usually done at the field end of the cable where no shield grounding is desired. You will then use insulating tape or heat-shrink tubing to protect the cable from contamination and to prevent accidental grounding of the shield or drain wire. An accidental ground at this point would almost certainly create an undesirable ground loop.

Method-2

A typical two-pair shielded cable can be prepared for termination to the terminals with the drain wire cut off. The drain wire, which is an uninsulated conductor, is sleeved with a insulating tubing to prevent accidental grounding. The crimp-on lug is valuable in this instance to retain the tubing. Insulating tape or heat-shrink tubing is again used to protect the cable from contamination and to prevent accidental grounding, since any accidental connection between the drain wire and a chassis, frame, or enclosure would almost certainly create a ground loop.



• ELDO DMX Protocol and Wiring Description

How to wire DMX/RDM lighting systems

DMX/RDM is a robust and reliable system for lighting control. However, if not implemented correctly, problems can arise such as random flashing of lights, erratic operation and delays in responding to commands. This document explains the best practices in DMX wiring.

Below, a typical DMX universe is shown. The DMX controller sends signals over the DMX cable to the drivers. At the last driver, the cable has to be terminated with a 120Ω resistor to prevent reflections of the signal.

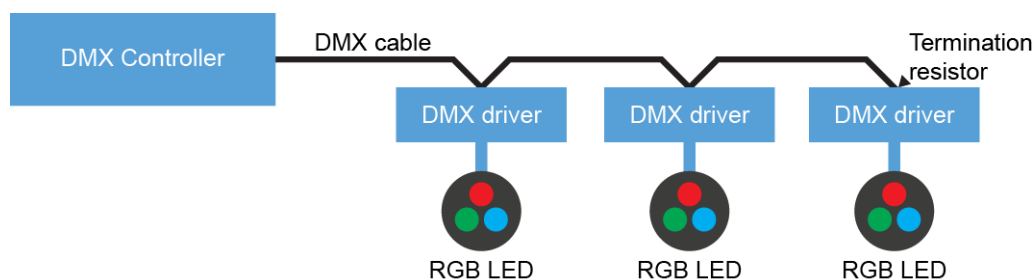


Figure 1 – Typical DMX universe

Important things to consider are:

- DMX is a three-wire system. Use all three!
- DMX is based on the EIA-485/RS-485 standard.
- Always use cable specifically designed for DMX / RS-485. These cables have an impedance of 120Ω and a low capacitance. For instance: Belden 9841 or 3105a.



Figure 2 – Belden 9841 cable

- DMX must be terminated with a 120Ω resistor to prevent reflections.
- A daisy chain topology should be used.
- After 32 unit loads a repeater/booster should be used.
- Keep cabling below 300 metres between the controller and the last driver.
- It is generally considered good practice to provide separate DMX in and DMX out/DMX thru connections to your fixture to aid in installation. This can be in the form of pigtails, RJ-45 connectors or 5-pin XLR-connectors.



Connecting the cable on eldoLED drivers with 'DMX in' terminals only

Drivers with only one set of DMX terminals (DMX in +, DMX in -, and DMX in shield) use a standard DMX bus topology (daisy chain). At the last driver, a 120Ω resistor must be connected between the DMX in + and DMX in - pins of the driver as termination. This method is compatible with RDM.

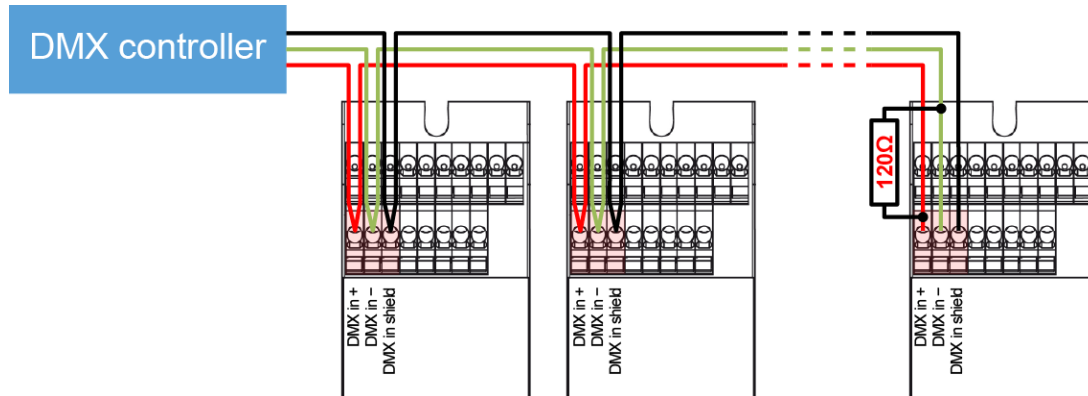


Figure 3 – Daisy chain topology with 'DMX in' only

Connecting the cable on eldoLED drivers with 'DMX in' and 'DMX thru' terminals

Some eldoLED drivers have an extra set of DMX terminals (DMX thru +, DMX thru - and DMX thru shield) in addition to the 'DMX in' terminals to make installation easier. Internally, these 'thru' terminals are electrically connected to the 'DMX in' terminals. These drivers also use standard DMX bus topology (daisy chain). The 'DMX thru' connections are compatible with RDM.

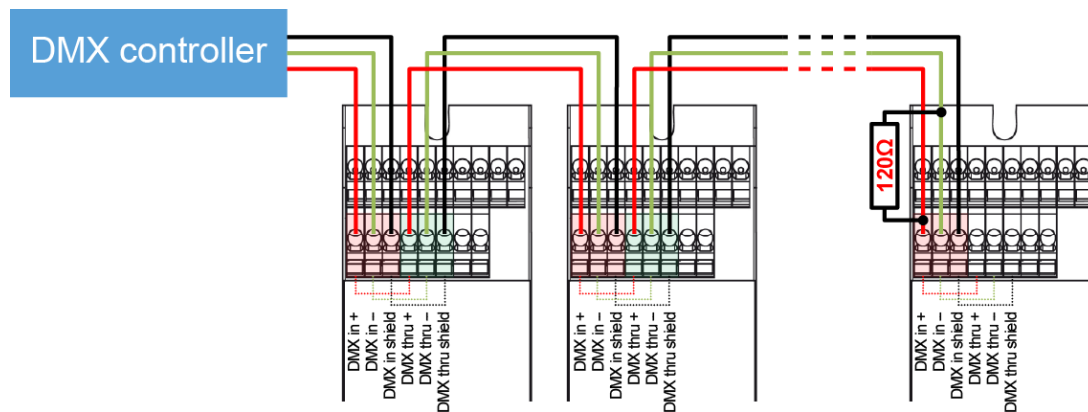


Figure 4 – Daisy chain topology with 'DMX in' and 'DMX thru'

Connecting the cable on eldoLED drivers with 'DMX in' and 'DMX out' terminals

Drivers with 'DMX out' terminals (DMX out +, DMX out - and DMX out shield) in addition to the 'DMX in' terminals provide a buffered DMX out signal. These drivers offer additional functionality on top of standard DMX. On some products 'DMX out' is called LEDsync.



- DMX out acts as a built-in booster or repeater, so no additional repeaters or boosters are necessary after 32 drivers.
- DMX out provides automatic driver addressing possibilities.
- With DMX out, it is possible to have mixed topologies instead of daisy chain only.
- Only the first driver on the 'DMX out'-chain (master) is visible on RDM – slaves behind are not visible. If RDM is required, use the 'DMX in' terminals instead of 'DMX out'.
- Each DMX out adds a delay of approximately 300µs. After 75 drivers, this delay will be visible.
- The maximum available DMX address is 480; DMX addresses 481 – 512 are reserved for 'DMX out'-features.
- If one driver in the chain fails, devices behind the failing driver will stop receiving DMX signals.
- Drivers without 'DMX out'-terminals or third party drivers should be first in the DMX chain, they cannot be connected behind drivers with 'DMX out'.

Termination with DMX out

With drivers that have DMX out terminals extra care should be taken with termination, depending of the configuration. In short: termination is necessary after each cable run, but not at any T/Y-connections. Some examples:

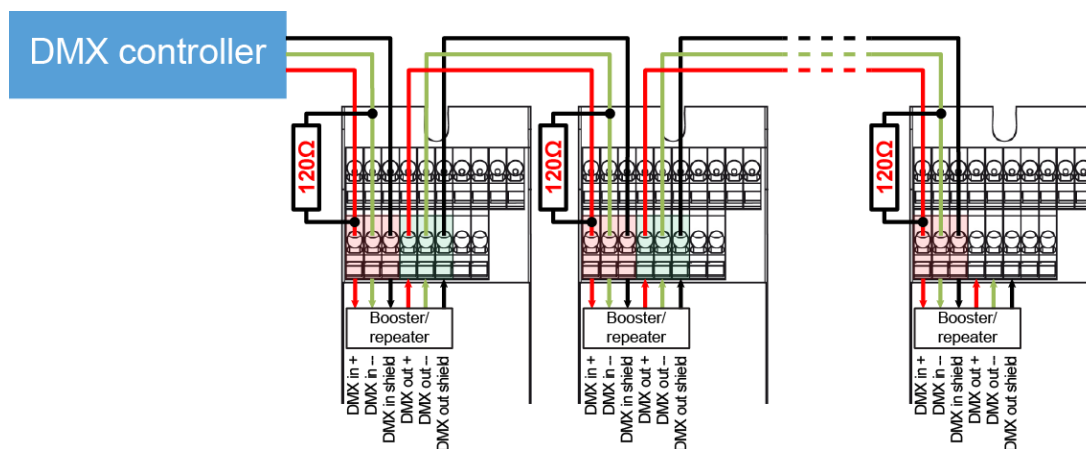


Figure 5 – Termination on each cable run



Figure 6 Mixed topology with daisy chain and DMX out



Figure 7 – It is not possible to have third party drivers in the DMX out-chain