

# Martin DMX 5.3 Splitter™

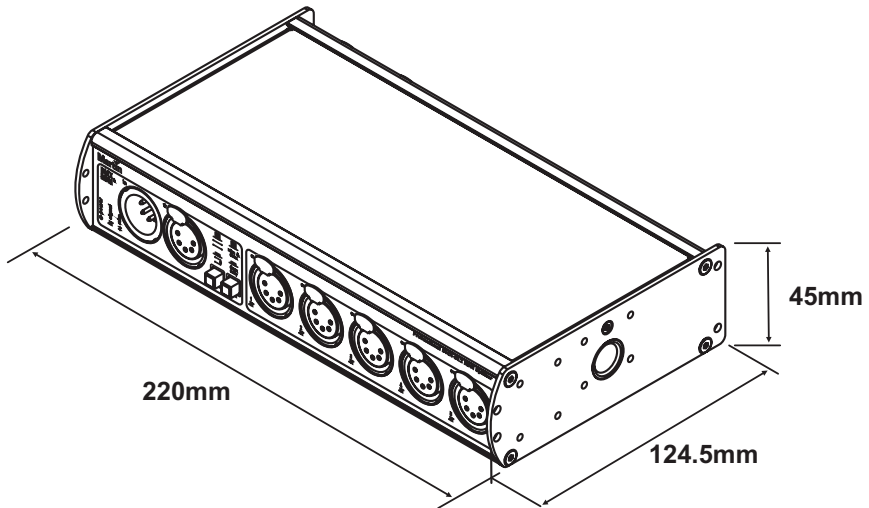
# Martin RDM 5.5 Splitter™

## user manual



# Dimensions

All dimensions are in millimeters



Martin RDM 5.5 Splitter illustrated. Martin DMX 5.3 Splitter has same dimensions

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# Safety information

The following symbols are used to identify important safety information in this manual:



**Danger! Risk of personal injury.**



**Danger! Risk of electric shock.**



**Danger! Risk of fire.**



**Warning! Risk of burns.**



**Warning! Refer to user manual before installing, powering or servicing.**



**Warning! This device is not for household use.**

**Warning! Read this manual before operating the device, follow the safety precautions listed below, and observe all warnings in this manual and printed on the device. Use this device only as described in this manual and in accordance with local laws and regulations.**



**Warning! There are no user-serviceable parts inside the device. Refer all service to Martin Professional or its authorized service agents.**

If you have questions about how to operate the device safely, please contact your Martin supplier or call the Martin 24-hour service hotline on +45 8740 0000, or in the USA on 1-888-tech-180.



## **PROTECTION FROM ELECTRIC SHOCK**

- Isolate the device from AC power before installing or removing it and when it is not in use.
- Ensure that the device is electrically connected to ground (earth).
- Use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault (earth-fault) protection.

- Connect the device to AC power using either the supplied power input cable (DMX 5.3 Splitter only) or via 3-conductor cable that is heat resistant to minimum 90° C (194° F) and rated minimum 20 amp. In North America the power input cable must be minimum 12 AWG, type SJT or equivalent. In the EU the cable must be minimum 2.5 mm<sup>2</sup> conductor size and HAR approved or equivalent.
- Cables used for power throughput via the RDM 5.5 Splitter's power throughput outlet must meet the same specifications as those given above for power input cables.
- The voltage and frequency at the RDM 5.5 Splitter's power throughput outlet are the same as the voltage and frequency applied to the power inlet. Only connect devices to the power throughput outlet that accept this voltage and frequency.
- The total current draw of all the devices connected to the RDM 5.5 Splitter's power throughput outlet in a chain must not exceed 19.6 amps.
- Before using the device, check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.
- Isolate the device from power immediately if the power cable or power plug are in any way damaged, defective or wet, or if they show signs of overheating.
- Do not expose the device to moisture or allow it to become wet.
- Do not operate the device if any cover or component is missing, damaged or deformed.
- Refer any service operation not described in this manual to an authorized Martin Service partner.



## **PROTECTION FROM BURNS AND FIRE**

- Provide unrestricted airflow around the device.
- Do not operate the device if the ambient temperature ( $T_a$ ) exceeds 55° C (137° F).
- Do not modify the device in any way not described in this manual.



## **PROTECTION FROM INJURY DUE TO FALLS**

- When suspending the device overhead, ensure that the supporting structure and all hardware used can hold at least 10 times the weight of all devices suspended from them.
- When suspending the device overhead, install as described in this manual a secondary attachment such as a safety cable that is approved by an official body such as TÜV as a safety attachment for the weight of the fixture. The safety cable must comply with EN 60598-2-17 Section 17.6.6 and be capable of safely catching the fixture if the main attachment fails.
- Block access below the work area and work from a stable platform whenever installing, servicing or moving an overhead device.

# Introduction

Thank you for selecting a Martin Professional™ DMX/RDM Splitter/Amplifier. This range consists of two products:

- The Martin DMX 5.3 Splitter™
- The Martin RDM 5.5 Splitter™

Devices can be mounted in pairs in a standard 19-inch rack or fixed to a flat surface using the supplied mounting brackets. They can also be mounted in a rig using a truss mounting bracket.

For the latest documentation and other information about this and all Martin Professional products, please visit the Martin website at [www.martin.com](http://www.martin.com)

Comments or suggestions regarding this document may be e-mailed to [service@martin.dk](mailto:service@martin.dk) or posted to: Technical Documentation, Martin Professional A/S, Olof Palmes Allé 18, DK-8200 Aarhus N, Denmark.

## Features

- Five amplified, regenerated, buffered and optically isolated outputs
- “**thru**” output that continues the data link unmodified
- Auto-sensing power supply: 100 - 240 VAC nominal, 50/60Hz
- Provision for mounting in the rig to simplify cabling, mounting in pairs in a standard 19-inch rack (1U) or fastening to a flat surface.

## Unpacking

The Splitter is supplied in a cardboard box. The following items are included:

- Two ‘wing’ brackets and all screws required to either mount splitters side-by-side in pairs ready for rack mounting or prepare a splitter for fastening to a surface.
- Power cable with US plug (Martin DMX 5.3 Splitter) or Neutrik PowerCon power input connector without cable (Martin RDM 5.5 Splitter)
- This user manual

# Using for the first time

Before applying power to the device:

- Carefully review "Safety information" starting on page 4.
- Check that the local AC mains power voltage is within the range given on the product's serial number label.
- For the DMX 5.3 Splitter, if the supplied mains plug (cord cap) does not match your local power outlets, cut it off and install a suitable plug on the power cable (see "Power cable and plug" on page 13).
- For the RDM 5.5 Splitter, install the supplied Neutrik PowerCon power input connector on a suitable power cable and either install a mains plug or hard-wire the device to a building electrical installation (see "Power cable and plug" on page 14).

## Functionality

Both the DMX 5.3 Splitter and RDM 5.5 Splitter transmit DMX signals. The RDM 5.5 Splitter also provides bidirectional transmission of an RDM signal on the data link.

### Splitting the data link

Branching a DMX or DMX/RDM data link using a passive split such as a 'Y' connector is likely to cause data transmission problems and is therefore not recommended. Martin Splitters allow the data link to be split into up to 5 branches:

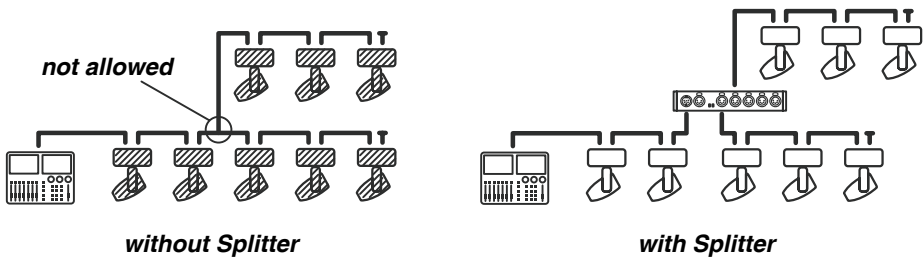


Figure 1: Splitting the data signal



## Amplification

Martin Splitters amplify the DMX or DMX/RDM signal, allowing the data link to be extended by max. 500 m (1740 ft.) using AWG 22 DMX cable or 300 m (1000 ft.) using AWG 24 DMX cable:

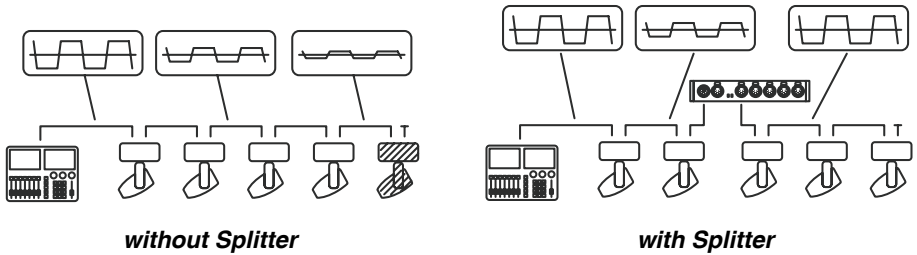


Figure 2: Amplifying the data signal

## Regeneration

Martin Splitters clean and regenerate the data signal, removing the effects of disturbance:

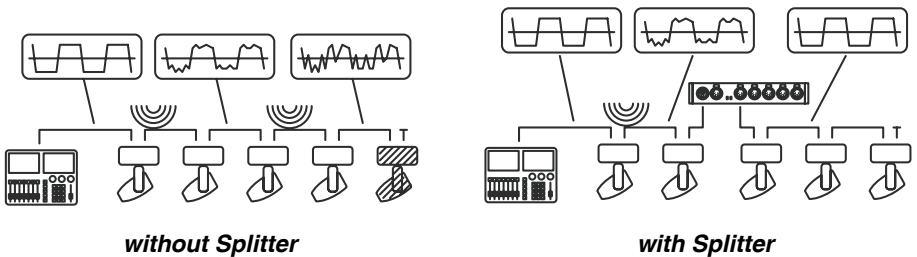
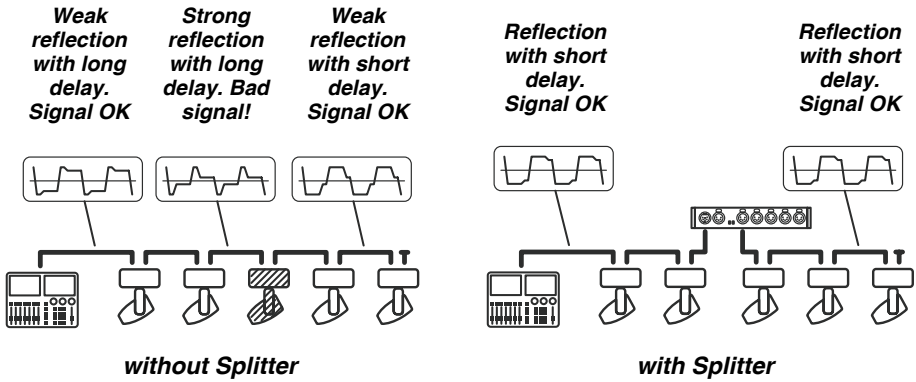


Figure 3: Regenerating a corrupted signal

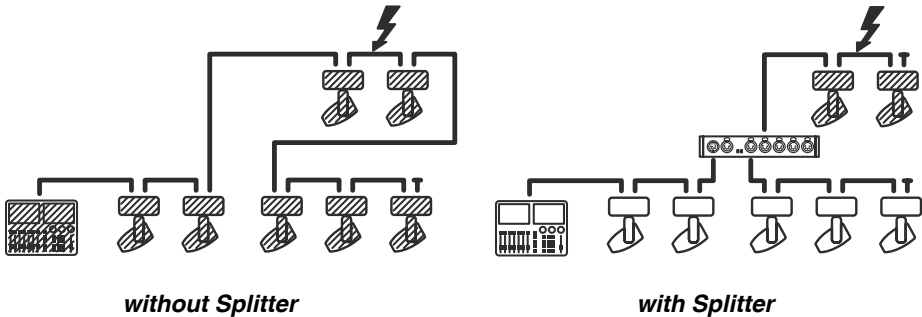
Martin Splitters also reduce signal reflections that can be a problem in larger installations or on longer cable lengths:



**Figure 4: Eliminating data signal reflections**

### Voltage surge protection

All five **out** sockets on Martin Splitters are optically isolated. This protects the Splitter, other branches of the data link and the controller from damage caused by any excess voltage on a branch downstream of the Splitter.



**Figure 5: Protecting against voltage surges**

# Physical installation

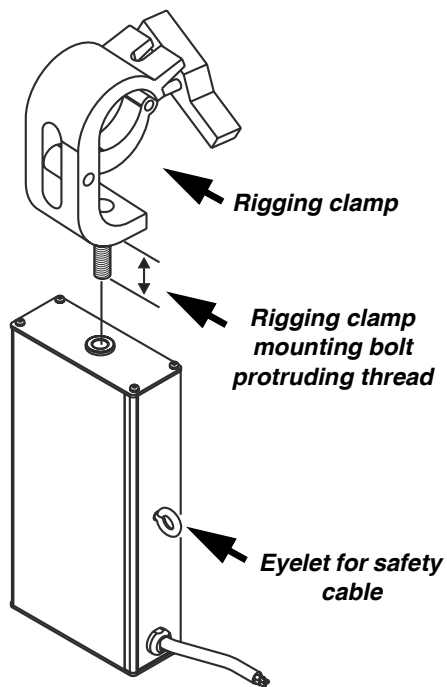
## Mounting in a rig

Both the DMX 5.3 Splitter and the RDM 5.5 Splitter can be flown in a rig. To install them in a rig:

1. Fasten a suitable rigging clamp for the truss or suspension bar to the Splitter with a minimum grade 8.8 M12 bolt as shown in Figure 6.

**Warning! The bolt thread must protrude 10 mm (0.4 in.) minimum and 25 mm (0.9 in.) maximum into the Splitter when the bolt is tight.**

2. Fasten the rigging clamp securely to a truss or suspension bar.
3. Loop a safety cable that is approved for the weight it will support through the eyelet in the back of the Splitter and around the truss or suspension bar.



**Figure 6: Mounting a rigging clamp**

## Fastening to a surface

Both the DMX 5.3 Splitter and the RDM 5.5 Splitter can be fastened to a flat, stable surface in any orientation. To fasten to a surface,

1. Fasten the supplied L-brackets to the outer ends of the Splitter using the eight supplied Torx 10 M3 x 4 thread-forming screws as shown at **A** in Figure 7. The L-brackets can be fastened as shown at **A** or rotated through 180°, allowing the Splitter to be fastened on or under a surface with four suitable screws.

**Warning! Do not fasten screws with a thread length of more than 4 mm (0.15 in.) into the ends of either Splitter.**

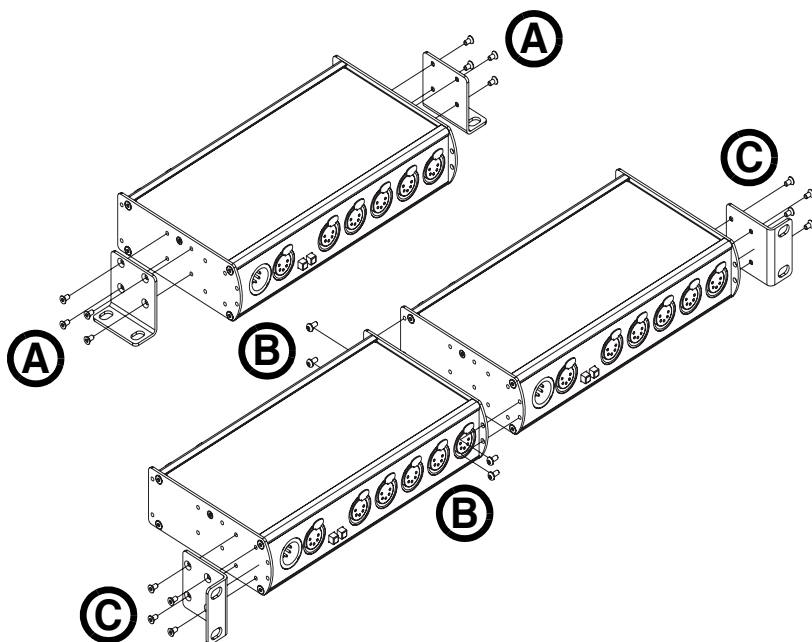
## 19-inch rack mounting

Both the DMX 5.3 Splitter and the RDM 5.5 Splitter can be mounted in pairs side-by-side in standard 19-inch racks. Both models have the same dimensions and mounting system. To mount in a rack:

1. Fasten two Splitters together side-by-side using the four Torx 10 M3 x 6 thread-forming attachment screws supplied with one of the Splitters as shown at **B** in Figure 7.
2. Fasten the L-brackets supplied with one of the Splitters to the outer ends of the pair of Splitters using the eight supplied thread-forming Torx 10 M3 x 4 screws as shown at **C** in Figure 7.

**Warning! Do not fasten screws with a thread length of more than 4 mm (0.15 in.) into the ends of either Splitter.**

3. Use the L-brackets and suitable screws to fasten the Splitters into the rack.



**Figure 7: Mounting options**

# AC power



***Warning! For protection from dangerous electric shock, the device must be grounded (earthed). The local AC power source must have both overload and ground-fault (earth fault) protection.***

***Warning! Power socket outlets or external power switches used to supply the DMX 5.3 Splitter with power must be located near the device and easily accessible so that the device can easily be disconnected from power. In an emergency, the RDM 5.5 Splitter can be disconnected from power by removing the Neutrik PowerCon power input connector***

***Important! Only insert or remove a live Neutrik PowerCon connector to apply or cut power in an emergency, as doing so may cause arcing at the terminals that will damage the connectors.***

## AC operating range



The power supply units in both the DMX 5.3 Splitter and RDM 5.5 Splitter are fully auto-sensing and these devices can be connected to AC power at 100-240 V nominal at 50/60 Hz. Do not connect to power at any other voltage or frequency.

## Power cable and plug

### Martin DMX 5.3 Splitter

The 5.3 DMX Splitter is supplied with a hard-wired, EU color-coded power cable with a US-type AC mains power plug. If this plug is not suitable for your local power outlets, cut the plug off the end of the cable and either hard-wire the Splitter to the building's electrical installation providing an easily accessible power on/off switch close to the device, or replace it with a grounding-type (earthed) power plug that suits the local power outlets. Following the power plug manufacturer's instructions, connect the green/yellow wire to ground (earth), the blue wire to neutral, and the brown wire to live.

Table 1 shows some pin identification schemes. Consult a qualified electrician if you have any doubts about proper installation.

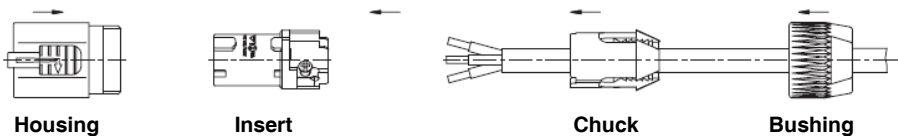
Wire (US system)	Wire (EU system)	Pin	Marking	Screw color
black	brown	live	“L”	yellow or brass
white	blue	neutral	“N”	silver
green	yellow/green	ground	 or 	green

**Table 1: Power plug pin identification**

## Martin RDM 5.5 Splitter

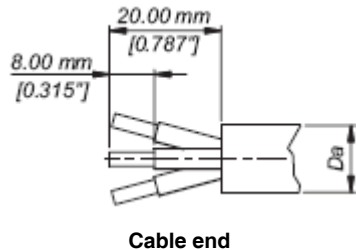
The RDM 5.5 Splitter is supplied with a blue Neutrik PowerCon NAC3FCA cable-mount connector for power input. The user must supply a suitable length of power cable that meets the requirements listed on page 5 and install the PowerCon connector on it as described below. The user must then either hard-wire the power cable to the building’s electrical installation, providing an easily accessible power on/off switch close to the device, or install on the power cable a grounding-type (earthed) mains plug that is suitable for the local power outlets, following the power plug manufacturer’s instructions. Table 1 shows some pin identification schemes. Consult a qualified electrician if you have any doubts about proper installation.

### *Installing a Neutrik NAC3FCA power connector on a power cable*

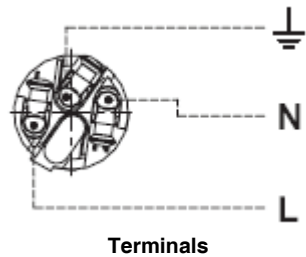


To install a Neutrik NAC3FCA input connector on a power cable:

1. Slide the bushing over the cable.
2. Slide the white chuck over cables with a diameter ( $D_a$ ) of 5 - 10 mm (0.2 - 0.4 in.), or the black chuck over cables with a diameter of 10 - 15 mm (0.4 - 0.6 in.).
3. Prepare the end of the cable by stripping 20 mm (0.8 in.) of the cable’s outer jacket.
4. Strip 8 mm (1/3 in.) from the end of each of the wires.



5. Insert each of the wire ends into the appropriate terminal (see illustration on right and Table 1 above) and fasten using a small flathead screwdriver.
6. Push and insert the chuck into the housing (note that there is a raised key on the chuck to ensure that it is oriented correctly).
7. Fasten the bushing using a wrench to a torque of 2.5 Nm (1.8 lb.-ft).



Illustrations in this section used by kind permission of Neutrik AG.

## Relaying power to other devices



***Warning! The current load of all devices connected to AC mains power in one interconnected chain via the RDM 5.5 Splitter's power throughput outlet must not exceed 19.6 amps.***

Devices can be linked in a chain, power throughput to power input, so that they all draw AC mains power via the RDM 5.5 Splitter's Neutrik PowerCon power throughput socket, but certain points must be respected:

- Power cable that meets the requirements specified on page 5 of this manual must be used to connect the RDM 5.5 Splitter to AC mains power and to connect all the devices in the chain to each other.
- A light-grey Neutrik PowerCon NAC3FCB cable-mount connector must be used to draw AC mains power from the RDM 5.5 Splitter's power throughput socket and a blue Neutrik PowerCon NAC3FCA cable-mount connector must be used to supply power at the RDM 5.5 Splitter's power input socket.
- No matter what the AC mains power voltage is, the current draw of all the devices that draw AC mains power in one interconnected chain from the power throughput socket of an RDM 5.5 Splitter that is connected directly to AC power must not exceed 19.6 amps total.

# Data connections and setup

The Martin DMX 5.3 Splitter uses 3-pin XLR and the Martin RDM 5.5 Splitter uses 5-pin XLR sockets for all data connections: **in**, optically isolated, optically isolated, **thru** and **out**.

Pins 4 and 5 in 5-pin XLR connectors are not used by DMX or RDM signals, but if you intend to use pins 4 and 5 in the RDM 5.5 Splitter's 5-pin sockets for any other purpose, note that these pins are connected from the **in** to the **thru** socket, but that there is no connection to pins 4 and 5 of the **out** sockets.

## Data input

Connect the data link cable from the controller to the **in** socket on the Splitter using a female XLR cable connector.

## Data throughput

The main data link daisy-chain can be continued at the **thru** socket using a male XLR cable connector. The signal that is relayed from the **in** to the **thru** socket is not amplified or processed in any way and is available even if the Splitter is not powered.

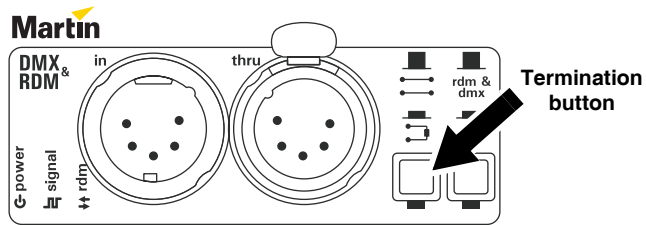
### DMX termination

The DMX termination button (see Figure 8) on the front of the Splitter must be:

- pressed in to activate termination if you do not connect devices to the **thru** socket, and
- not pressed in if you continue the data link from the **thru** socket.



The LED under the termination button lights when DMX termination is applied.



**Figure 8: DMX termination (5.5 Splitter illustrated)**

## Data output

The Splitter's **out 1 - out 5** sockets provide five amplified, buffered, regenerated and optically isolated outputs of the data signal present at the **in** socket.

You can create up to 5 branches on the data link by connecting DMX cable to the Splitter's **out** sockets using XLR male cable connectors. Each branch can have up to 32 devices connected and must be terminated at the end of the branch by inserting a DMX termination plug in the last device's DMX output. Unused outputs on the Splitter do not need to be terminated.

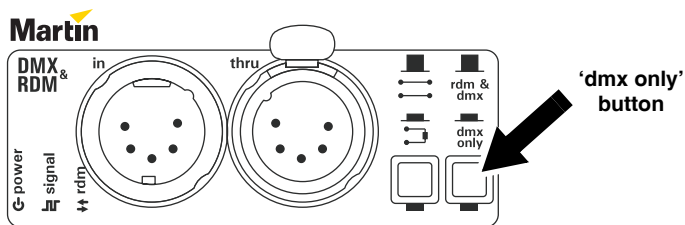
## RDM (Martin RDM 5.5 Splitter)

The Martin RDM 5.5 Splitter relays both DMX and bidirectional RDM signals on the data link.

### Removing non-DMX signals

All Martin DMX-controlled products monitor the data signal and filter out any data that they are not designed to accept. Martin products that do not support RDM will therefore not be disturbed if an RDM signal is present on the data link. However, there are DMX-controlled products in use that do not filter the data signal. These products may behave unexpectedly if they receive an RDM signal.

To solve this problem, the RDM 5.5 Splitter can be used as a data signal filter. If the **dmx only** button is pressed in, the RDM 5.5 Splitter will remove all data signals apart from DMX from the five **out** sockets. Note that pressing in the **dmx only** button will not affect the **thru** socket, which will continue to relay unmodified data signals from the **in** socket.



**Figure 9: DMX only**





If your installation contains a mixture of (a) devices that use or are unaffected by RDM and (b) devices that are disturbed by RDM, use separate Splitters to send DMX/RDM to the devices in group (a) and to send only DMX to the devices in group (b).

# Operation







## Status LEDs

Operation can be monitored using the status LEDs on the front of the Martin Splitters:

### Martin DMX 5.3 Splitter

	The <b>power</b> LED lights if AC mains power is applied and the Splitter's power supply unit is working.
	The <b>signal</b> LED on the front panel lights green if a valid data signal is present at the <b>in</b> socket.
	The <b>err</b> (error) LED lights red if a signal present at the <b>in</b> socket is faulty.
	The LED under the termination button lights if the Splitter's internal DMX termination is activated.

### Martin RDM 5.5 Splitter

	The <b>power</b> LED lights if AC mains power is applied and the Splitter's power supply unit is working.
	The <b>signal</b> LED on the front panel lights green if a valid signal is present at the <b>in</b> socket and red if a faulty signal is present at the <b>in</b> socket.
	The <b>rdm</b> LED lights if an RDM signal is present.
	The LED under the termination button lights if the Splitter's internal DMX termination is activated.
	The LED under the <b>dmx only</b> button lights if the DMX-only filter is active (i.e. all non-DMX signals are removed from outputs 1 - 5).
	The signal LED next to outputs 1 - 5 lights if a valid DMX or RDM signal is present at that output socket.

## Firmware/software uploads when using Splitters

Martin products that support firmware/software uploads in .MU3 file format over the data link should accept uploads without problem when a DMX 5.3 or RDM 5.5 Splitter is present on the data link. When using an RDM 5.5 Splitter, make sure that the **dmx only** button is not pressed in during firmware uploads.

## RDM and the RDM 5.5 Splitter

From 2011, information on RDM and Martin products that support it is being added to the Martin website at [www.martin.com](http://www.martin.com)

# Service



**Warning! There are no user-serviceable parts inside the device. Refer all service apart from cleaning to Martin Professional or its authorized service agents.**

Installation, on-site service and maintenance can be provided worldwide by the Martin Professional Global Service organization and its approved agents, giving owners access to Martin's expertise and product knowledge in a partnership that will ensure the highest level of performance throughout the product's lifetime. Please contact your Martin supplier for details.

The only service operations the user can carry out on a Martin DMX 5.3 or RDM 5.5 Splitter are occasional cleaning and uploading firmware to the Splitter.

## Cleaning

Do not use abrasive, caustic or solvent-based products for cleaning, as they can damage plastic or painted surfaces. Do not splash the device with water or any other liquid.

To clean the device:

1. Disconnect the device from power and allow it to cool for at least 5 minutes.
2. Clean the outside of the device with a soft cloth slightly dampened in a warm water/detergent solution.

## Installing Splitter firmware

Firmware (main CPU software) can be uploaded to a Splitter if you suspect that the device has a software-related fault or if a newer version of the firmware becomes available. Firmware updates are available from the Martin website and can be installed in one Splitter at a time with a PC and USB/DMX interface.

The following are required in order to install firmware:

- The latest version of the Splitter firmware, available for download free of charge from the Product Support area of the Martin website at [www.martin.com](http://www.martin.com)
- The Windows-based Martin Uploader application, available for download free of charge from the Downloads area of the Martin website.

- A PC running a Windows version supported by the Martin Uploader application.
- A Martin USB Duo™ DMX Interface Box (P/N 90703010) with its supplied cables.

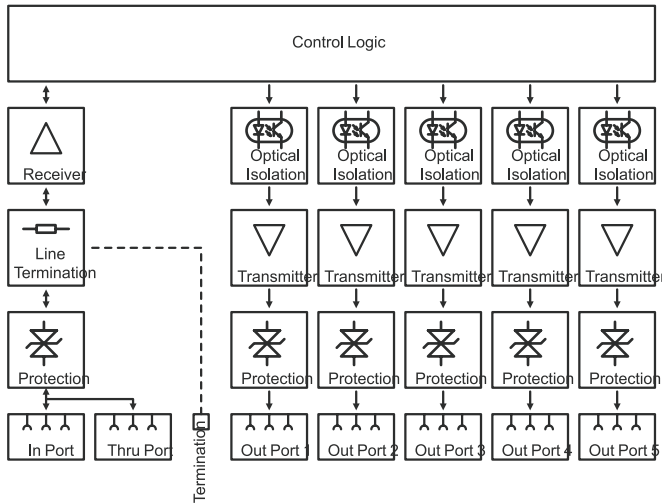
## **Firmware upload procedure**

To install firmware in a Splitter:

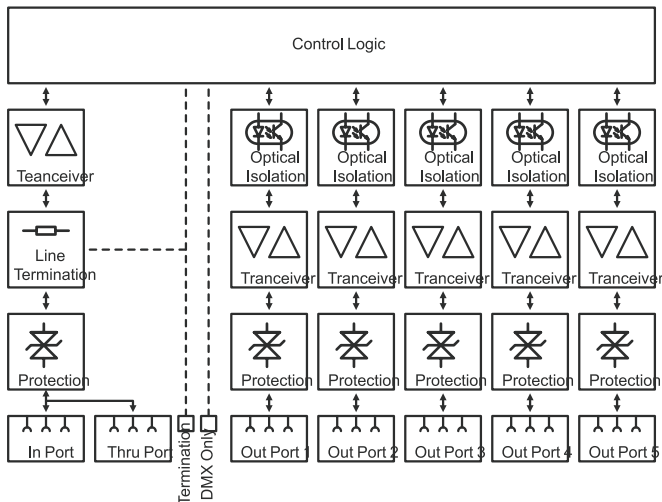
1. Start the Martin Uploader application on a PC connected to the Internet and download the splitter firmware from within the Uploader application.
2. Connect the PC to a Martin USB Duo™ DMX interface box and connect the interface box to the Splitter's data in connector.
3. Upload the firmware as described in the Uploader's help file or user documentation.
4. Disconnect the PC and interface box and reconnect the Splitter to the DMX link.
5. Cycle the Splitter's power off and on and check that the Splitter operates correctly. If a firmware upload seems to have been unsuccessful, cycle power off and on again and check for correct operation. If there still seems to be a problem, repeat the firmware upload procedure.

# Block diagrams

## Martin DMX 5.3 Splitter



## Martin RDM 5.5 Splitter



# Specifications

## Physical

Depth	125 mm (4.9 in.)
Width	220 mm (8.7 in.)
Height	45 mm (1.8 in.)
Weight	0.9 kg (2 lb.)

## Data signal

DMX (all models)	ANSI E1.11 (USITT DMX 512-A)
RDM (Martin RDM 5.5 Splitter)	ANSI E1.20
Electrical standard	EIA-485
Data cable type	Shielded twisted pair
Data cable gauge	22 or 24 AWG
Data cable impedance	120 Ohms
Maximum length per branch, 22 AWG cable	500 m (1640 ft)
Maximum length per branch, 24 AWG cable	300 m (1000 ft)
Maximum load per branch	32 devices

## Construction

Housing	Aluminum
Finish	Electrostatic powder coating

## Connections

### ***Martin DMX 5.3 Splitter***

AC power input	Hard-wired cable with US mains plug
DMX in	3-pin male XLR
DMX thru (unprocessed)	3-pin locking female XLR
DMX out (processed*)	.5 x 3-pin locking female XLR

### ***Martin RDM 5.5 Splitter***

AC power input	Neutrik PowerCon NAC3MPA input socket (blue)
AC power throughput	Neutrik PowerCon NAC3MPB output socket (grey)
DMX in and RDM controller	5-pin locking male XLR
DMX thru and RDM devices (unprocessed)	5-pin locking female XLR
DMX out and RDM devices (processed*)	.5 x 5-pin locking female XLR

*\*Processed data signals are amplified, regenerated, buffered and optically isolated*

## Electrical

AC power	100 - 240 V nominal, 50/60 Hz
Power supply unit	Switch mode, auto-sensing



## Typical power consumption

110 V, 60 Hz. ....	4 W
240 V, 50 Hz. ....	4 W

Measurements made at nominal voltage. Allow for a deviation of +/- 10%.

## Thermal

Minimum ambient temperature ( $T_a$ min.) ....	-30° C (-22° F)
Maximum ambient temperature ( $T_a$ max.) ....	55° C (137° F)

## Approvals



EU safety .....	EN 60950-1
EU EMC .....	EN 55022, EN 55024 EN 55103-1, EN 55103-2
US safety (pending) .....	UL 508
US EMC .....	FCC Part 15 Class A
Canadian safety (pending) CAN/CSA C22.2 No. 14	
Canadian EMC .....	ICES-003 Class A
Australia/New Zealand .....	C-TICK N4241

## Included items

### **Martin DMX 5.3 Splitter**

DMX splitter device

1.2 m (3.9 ft.) hard-wired power cable with US (NEMA-5-15) plug

4 x screws to join two devices for rack mounting

2 x L-brackets + 8 x screws for 19-inch rack mounting two side-by-side units (1U)

User manual

### **Martin RDM 5.5 Splitter**

DMX/RDM splitter device

1 x Neutrik PowerCon cable connector, power input, blue (NAC 3 FCA)

4 x screws to join two devices for rack mounting

2 x L-brackets + 8 x screws for 19-inch rack mounting two side-by-side units (1U)

User manual

## Accessories

Neutrik PowerCon NAC3FCA power input cable connector, blue . P/N 05342804

Neutrik PowerCon NAC3FCB power output cable connector, grey P/N 05342805

Half-coupler clamp .....

G-clamp .....

Quick-trigger clamp. ....

Safety wire, safe working load 50 kg .....

Adapter, 3-pin male - 5-pin female XLR, straight through .....

Adapter, 5-pin male - 3-pin female XLR, straight through .....

Adapter, 5-pin male XLR to RJ-45 plug, 15 cm .....

Adapter, 5-pin female XLR to RJ-45 plug, 15 cm .....

## Ordering information

Martin DMX 5.3 Splitter .....

Martin RDM 5.5 Splitter .....



### **Disposing of this product**

Martin Professional products are supplied in compliance with Directive 2002/96/EC of the European Parliament and of the Council of the European Union on WEEE (Waste Electrical and Electronic Equipment), as amended by Directive 2003/108/EC, where applicable.

Help preserve the environment! Ensure that this product is recycled at the end of its life. Your supplier can give details of local arrangements for the disposal of Martin products.



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