

KG3 · Beabadoobee 2026 Headline Tour · LED rope package

BEA 2026 LOAD-IN BINDER

Printer-friendly, 11 x 17 landscape. 63 pages. Built September 18, 2026. Internal crew copy, not for the client.

A FIRST-TIME SETUP Everything for the first full build of the package: what plugs into what, every Wye, every feeder.	B STAGEHAND DAY SHEETS One page per built section. Which labeled LED goes where, IN and OUT, what feeds it. Print a stack.	C CONTROL PACK Universes, channels, controller and port for every run, pixel counts, power, IP addresses.	D REFERENCE AND SPECIAL CASES Internal only: retractor plan, potential cuts (not adopted), spec sheet, plot, manifest, contacts.
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A

FIRST-TIME SETUP

Everything for the first full build of the package: what plugs into what, every Wye, every feeder.

- NEW · Load-in notes, order of operations, retractor NL4 note
- NEW · Fed by what: every injector and every run
- KG3-BEA-PWR-01 R3 · Power Injection Map (every 3fer, 2fer, jumper, straight)
- KG3-BEA-DROP-01 R4 · Wye Chain Plan
- KG3-BEA-INJ-01 R2 · Injection Cable Map, one page per column
- PINOUT · 3fer tee
- PINOUT · 2fer tee
- PINOUT · Audience (AP) fixed drop
- PINOUT · Power jumper
- KG3-2FER-SOOW-01 · AllBulbs molded 2fer spec
- KG3-TEE-SOOW-01 · AllBulbs inline tee reference
- FEEDER MAP · Feeder Cable Map, rack to rope
- PINOUT · NL8 to NL4 SPI Splitter
- PINOUT · NL8 trunk (16/6)
- PINOUT · NL8 rack jack (NL8MPR), 2x SPI outputs, 16/3
- KG3-BEA-RING-01 · Rigging Ring Detail
- KG3-BEA-CHK-01 · LED Segment Checklist
- KG3-26-BEA-PS1 · Pull Sheet



Load-in notes and order of operations

Read this page first. Mt. Juliet, Fri Sep 18, 10:00 sharp, on site 9:45.

Order of operations, first build

1. **Rack** to its OFFSTAGE position (about 30 ft ground run + 5 ft slack). Lid marked INPUT / OUTPUT toward the cable, ADVATEK ACCESS toward the tech. Do not power yet.
2. **NL8 trunks** (5): 50 ft + 10 ft to each pylon LOW arm (DS, US, USR1, USR2); 50 ft + 25 ft to the audience rope. NL8MMX barrel at the join. Tape on each end names the port (NL8-1 DS ... NL8-5 AUD).
3. **Splitters** on the arm: OUTPUT 1 (8 ft tail) goes UP to the MID run, OUTPUT 2 (2 ft tail) onto the LOW run. On AUD: OUTPUT 1 + the 10 ft NL4 jumper to AUD1, OUTPUT 2 to AUD2.
4. **NL4 singles** (4) to the TOP arms: 3x 20 ft + 1x 10 ft + barrels per run, taped RUN + TOP at both ends. DS1 = NL4-1, US4 = NL4-2, USR1-1 = NL4-3, USR2-1 = NL4-4.
5. **Rope** per section sheet (group B): IN end toward the rack feeder, OUT away. Barrel on every rope joint. Rings + safeties per RING-01.
6. **Injector columns** per KG3-BEA-PWR-01: Wye input tail is the only male end at a column. 3fer where a run continues, 2fer where it ends, jumpers between Wyes, straights at the END columns (NJCT 2, 4, 7).
7. **Injector feeds:** NJCT 1 to 4 from LMG's retractors (see note), NJCT 5 to 7 on KG3's fixed 12/3 drops on the AP motors.
8. **Power up:** network in, link lights on CTRL A to D, TRUE1 last. Run test from the rack before anything trims out.

Retractor note (LMG gear)

Add NL4s to the four LMG retractor reels on site. NJCT 1 to 4 (the DS / US winch feed points) are fed by LMG's 50 ft self-retracting reels. Their tails arrive bare or with LMG's ends; KG3 terminates them to **NL4 (large cable-entry body, NL4FXX-W-L / NLT4MXX)** to mate the PWR-NJCT box feed (F to F). **14 NL4 large-hole connectors travel with this binder** (8 needed, rest spare). Pin 1+ / 1- power only; 2+ / 2- empty on these.

Standing rules on this job

- **Pin 1- (yellow, SPI data) lands at ONE end only** on every 12/3 jumper and straight. Molded Wyes common 1-, so a jumper landed both ends would pass data between runs. Feeders from the PWR-NJCT box stay as built.
- **PI cable = Power-Inject**, always male to female, power only. 10 ft / 5 ft 12/3 feeders stay F to F.
- **LED leads are female both ends**, NL4MMX barrel at every joint. Male ends only on Wye inputs and jumper tops.
- **NL8 = two SPI outputs, 16/3 each:** WHITE V+, GREEN DATA, BLACK GND. 2+ / 4+ not used. Function follows the pin.
- **Lengths of record = Sheet 4.11 V2.2.** The V2.4 cut list in group D is NOT adopted.
- Nothing in this binder goes to the client or LMG without Kenny; the retractor pages are internal.

What is in the truck (6 pieces)

R-01 DS, R-02 US, R-03 AUD, R-04 USR rope trunks (quarter packs) · CABLE half pack (NL8 + NL4 feeders) · PXL CTRL RACK. Case ID labels on each.



Fed by what

Two different feeds on this job. Power injection = 7 PWR-NJCT boxes (AC up, 24 V down). Data + power = 14 rack feeders from the pylon rack.

Injector columns (power only, 12/3 SOOW). Retractor = LMG's reel clamped in the truss beside the winch, pays out with winch travel.

Box	Tag on the box	Where	Fed by	Box to feed	Serves (Wyes at this column)
PWR-NJCT 1	MSWR-NJCT1	DS wire rope, DSP mid span	LMG 50 ft retractor, 12/3	10 ft box feed F to F	DS1-1 / DS1-2, DS2-1 / DS2-2, DS3-1 / DS3-2
PWR-NJCT 2	MSWR-NJCT2	DS wire rope, DS end	LMG 50 ft retractor, 12/3	10 ft box feed F to F	DS1-2, DS2-2 (DS3-2 passes, no Wye)
PWR-NJCT 3	USWR-NJCT3	US wire rope, USP mid span	LMG 50 ft retractor, 12/3	10 ft box feed F to F	US4-1 / US4-2, US5-1 / US5-2, US6-1 / US6-2
PWR-NJCT 4	USWR-NJCT4	US wire rope, US end	LMG 50 ft retractor, 12/3	10 ft box feed F to F	US4-2, US5-2 (US6-2 passes, no Wye)
PWR-NJCT 5	DS1-NJCT5	Audience pickup AP1 motor	KG3 fixed 12/3 drop, 41'0"	50 ft box feed	AUD1-1 / AUD1-2, AUD2-1 / AUD2-2
PWR-NJCT 6	DS1-NJCT6	Audience pickup AP2 motor	KG3 fixed 12/3 drop, 45'0"	50 ft box feed	AUD1-2 / AUD1-3, AUD2-2 / AUD2-3
PWR-NJCT 7	DS1-NJCT7	Audience pickup AP3 motor	KG3 fixed 12/3 drop, 43'10"	50 ft box feed	AUD1-3 (AUD2-3 passes, no Wye)

Winch points have no pass-through. Nothing rides the Wahlberg winch: AC goes up the retractor to the PWR-NJCT, the box converts to 24 V at height, DC goes down the Wye chain. AP1 to AP3 hang on chain motors and stay static, so those drops are fixed length lashed to the pickup cable.

Rack feeders (data + power, one per run). NL8 lands at the LOW arm; NL4 single at the TOP arm.

Run	Rack port	Cable path	Controller	IP
DS2	NL8-1 a	NL8-1 trunk 50 + 10 ft + splitter OUTPUT 1 (8 ft tail)	CTRL A out 2	192.168.41.41
DS3	NL8-1 b	NL8-1 trunk 50 + 10 ft + splitter OUTPUT 2 (2 ft tail)	CTRL A out 3	192.168.41.41
US5	NL8-2 a	NL8-2 trunk 50 + 10 ft + splitter OUTPUT 1 (8 ft tail)	CTRL B out 3	192.168.41.42
US6	NL8-2 b	NL8-2 trunk 50 + 10 ft + splitter OUTPUT 2 (2 ft tail)	CTRL B out 4	192.168.41.42
USR1-2	NL8-3 a	NL8-3 trunk 50 + 10 ft + splitter OUTPUT 1 (8 ft tail)	CTRL C out 2	192.168.41.43
USR1-3	NL8-3 b	NL8-3 trunk 50 + 10 ft + splitter OUTPUT 2 (2 ft tail)	CTRL C out 3	192.168.41.43
USR2-2	NL8-4 a	NL8-4 trunk 50 + 10 ft + splitter OUTPUT 1 (8 ft tail)	CTRL D out 2	192.168.41.44
USR2-3	NL8-4 b	NL8-4 trunk 50 + 10 ft + splitter OUTPUT 2 (2 ft tail)	CTRL D out 3	192.168.41.44
AUD1	NL8-5 a	NL8-5 trunk 50 + 25 ft + splitter OUTPUT 1 (8 ft tail)	CTRL A out 4	192.168.41.41
AUD2	NL8-5 b	NL8-5 trunk 50 + 25 ft + splitter OUTPUT 2 (2 ft tail)	CTRL B out 1	192.168.41.42
DS1	NL4-1	NL4-1 single (16/3 NL4, 3x 20 ft + 10 ft + barrels) to the TOP arm	CTRL A out 1	192.168.41.41
US4	NL4-2	NL4-2 single (16/3 NL4, 3x 20 ft + 10 ft + barrels) to the TOP arm	CTRL B out 2	192.168.41.42
USR1-1	NL4-3	NL4-3 single (16/3 NL4, 3x 20 ft + 10 ft + barrels) to the TOP arm	CTRL C out 1	192.168.41.43
USR2-1	NL4-4	NL4-4 single (16/3 NL4, 3x 20 ft + 10 ft + barrels) to the TOP arm	CTRL D out 1	192.168.41.44



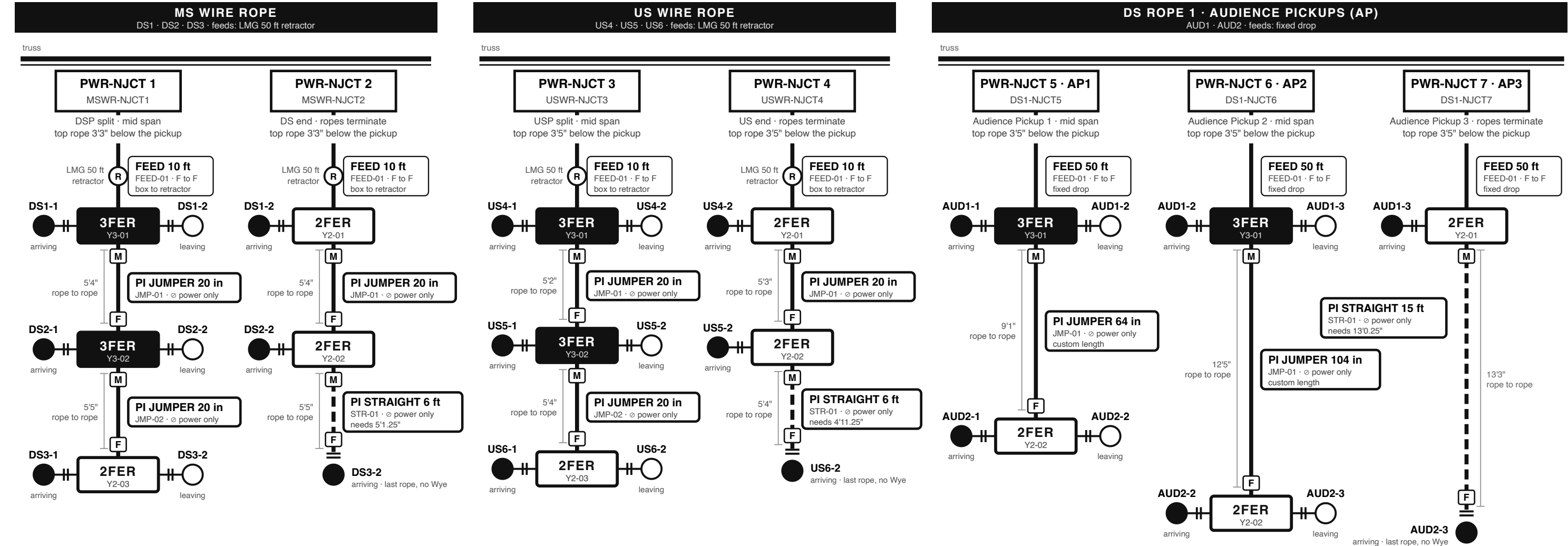
POWER INJECTION MAP

every 3fer, 2fer and PI cable (jumper or straight) with its length · power only, no data on this sheet · rope spacing drawn to scale

KG3-BEA-PWR-01 R3 · September 17, 2026

Beabadoobee 2026 Headline Tour · 7 PWR-NJCT columns · 12/3 SOOW throughout

- 3FER** Y-3 molded Wye, 45 in: 1 in, 3 out (arriving rope + leaving rope + through to the run below)
- 2FER** Y-2 molded Wye, 45 in: 1 in, 2 out ● rope end arriving from the pylon side ○ rope start leaving || NL4MMX barrel at every rope lead (28)
- PI** **Power-Inject cable** : 12/3 NL4, ALWAYS male to female, male end up toward the source ⦿ yellow data conductor not landed at one end: power only R LMG's 50 ft retractor in the feed





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WYE CHAIN PLAN

Spec #: KG3-BEA-DROP-01 R4

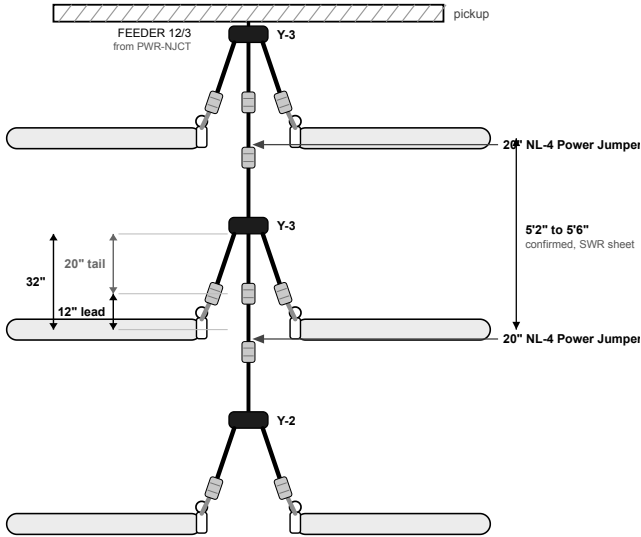
Job: Beabadoobee 2026 Headline Tour

Date: September 1, 2026

Every injection column is one chain of molded Wyes hanging on the power drop. At each run the Wye sends one leg into the end of the rope arriving at the column and one leg into the start of the rope leaving it, so the two rope segments are fed separately and never tie together. The third leg carries on down to the next run.

MID SPAN COLUMN, THREE RUNS, DRAWN TO SCALE

Y-3 at each upper run, Y-2 at the bottom. End columns swap to Y-2 upper and a straight run at the bottom.



PIECE LENGTHS

PIECE	LENGTH
Wye, stock molded	45" end to end legs 20" with the NL4 on · body 5½"
Jumper	run gap minus 45"
LED lead	12" finished
Wye body above its rope	20 + 12 = 32"

PIN MAP, EVERY END

Wired to the nl4-spi map so the same cable can carry SPI later:

1+ = V+ · 2- = GND · 1- = SPI DATA · 2+ NOT USED

Pin 1- is landed in every cable so the 12/3 can carry data later, and left empty on the NL4 inside the PWR-NJCT box and the rack.

On this show every drop carries power only. Data starts at the pylon rack and rides through the rope.

COLUMN	BUILD	JUMPERS	STRAIGHT TO THE LAST ROPE
NJCT 1 DSP split NJCT 3 USP split	Mid span, 3 runs Y-3, Y-3, Y-2	2 × 20" stock	none
NJCT 2 DS end NJCT 4 US end	End column, 3 runs Y-2, Y-2, straight	1 × 20" stock	NJCT 2 5'1.25" · NJCT 4 4'11.25"
NJCT 5 AP1 NJCT 6 AP2	Mid span, 2 runs Y-3, Y-2	AP1 64" · AP2 104"	none
NJCT 7 AP3	End column, 2 runs Y-2, straight	none	13'0.25"

- **Cable is 12/3 SOOW throughout**, drops, jumpers and straights alike.
- **Run spacing is confirmed** at 5'2" to 5'6" from the Rig Nation SWR schedule, with the top run 3'1" to 3'5" below the pickup. A 20" stock jumper covers every DS and US gap with 0 to 3" of slack, so only the two audience jumpers are cut long.
- **A KG3 rigging ring sits at every rope end**, lift eye and safety eye, 5/8" eye opening. See KG3-BEA-RING-01.
- **Connector convention: male toward the source, female toward the load**, so a live pin is never left exposed. Wye input is male, wye outputs are female, and each jumper and straight is male at the top and female at the bottom. Cables mate directly, so a barrel is only needed where two female ends meet. The LED rope leads are female on both ends, so each lead meets its Wye output or straight through an NL4MMX barrel. The main rack feeders stay female to female, NL4 and NL8 alike.
- **Every section disconnects and coils on its own** for the truck pack.
- Per column elevations, the full piece schedule and the label index are on KG3-BEA-INJ-01.



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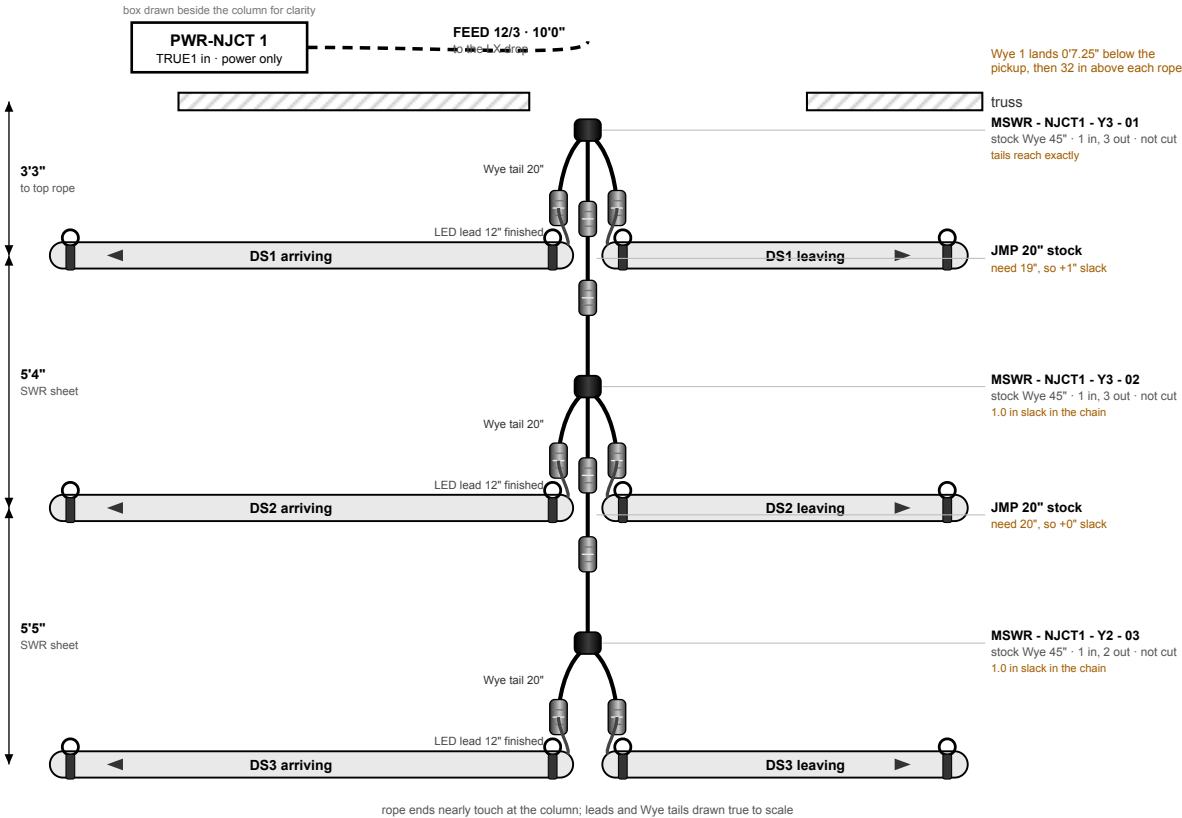
INJECTION CABLE MAP

Spec #: KG3-BEA-INJ-01 R2 **Job:** Beabadoobee 2026 Headline Tour **Date:** September 1, 2026

Every power injection assembly on the job, laid out against the rope spacing production confirmed on September 1 (Josh Slade, SWR schedule). Each piece has its own serialized ID and its own label.

MSWR - NJCT 1 · DSP SPLIT

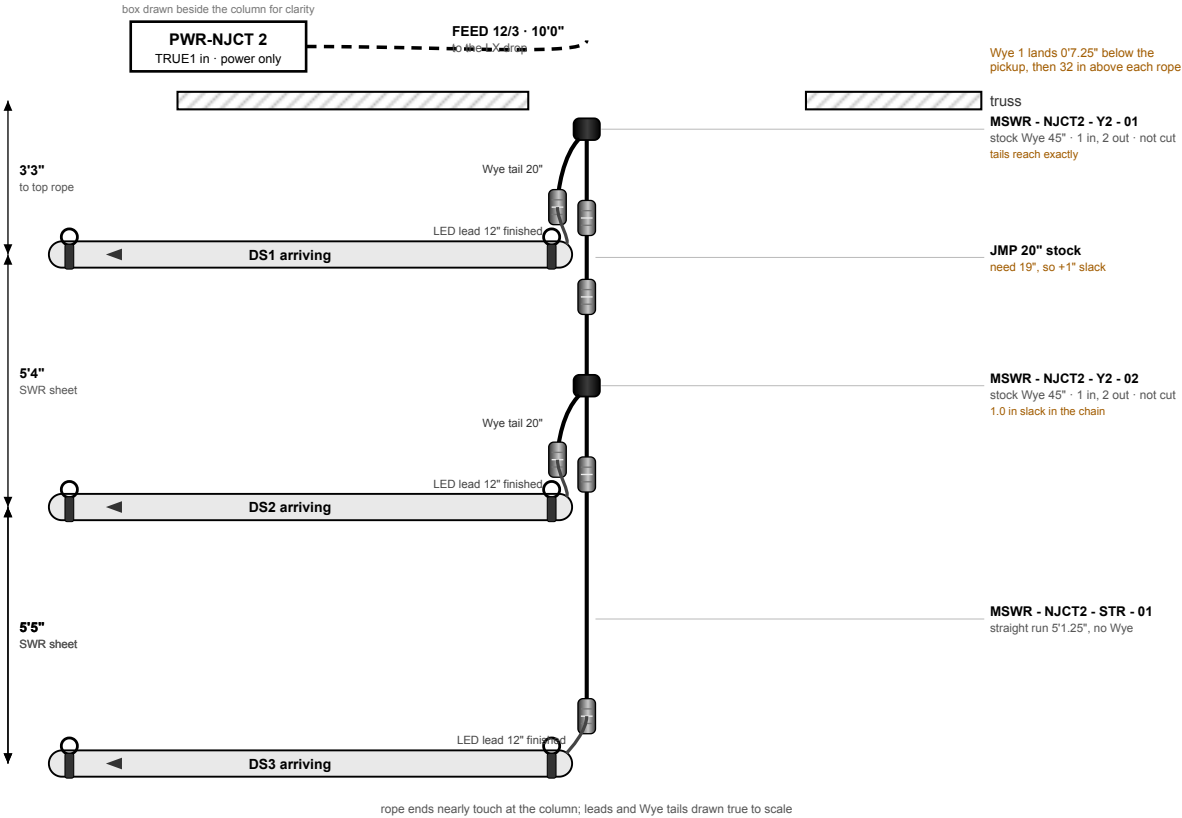
Mid span · 3 ropes · LX drop · Josh tab MS WIRE ROPE / Winch 1 · drawn to scale from the SWR schedule



Same build at USWR - NJCT 3 (USP split), ropes US4 / US5 / US6: top drop 3'5", gaps 5'2" and 5'4". Same two 20 in jumpers, 3 in and 1 in of slack.

MSWR - NJCT 2 · DS END

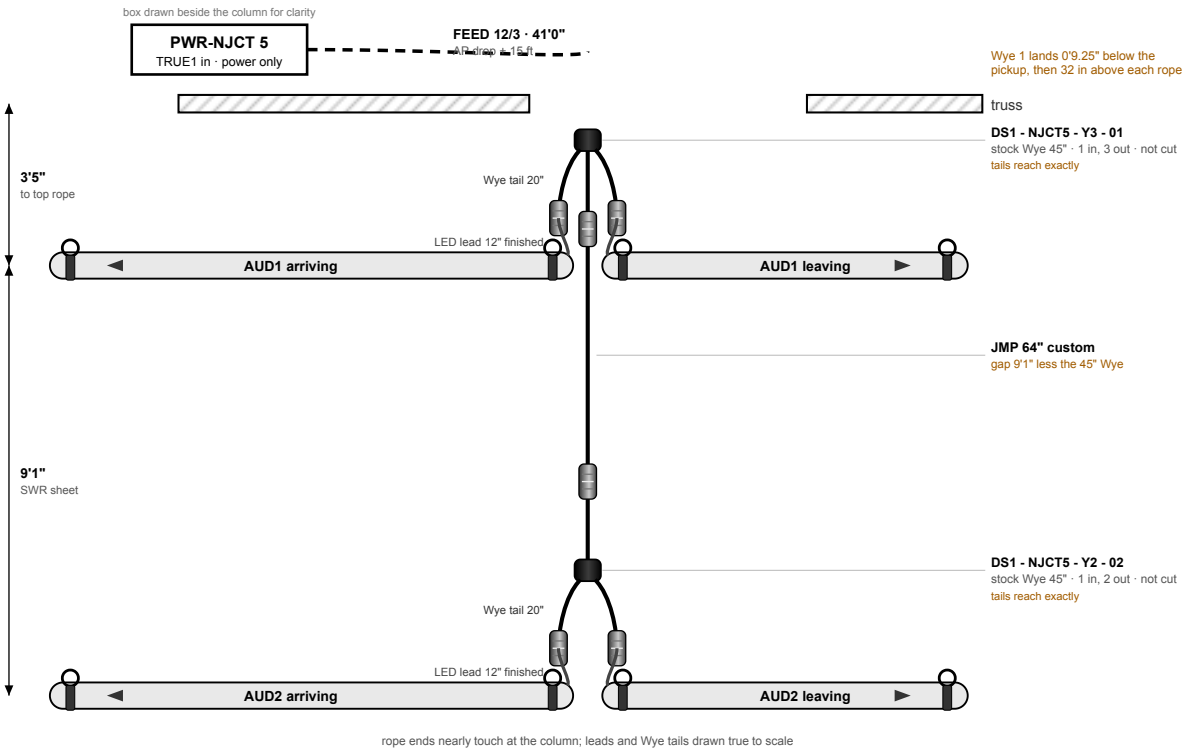
End column, rope terminates · 3 ropes · LX drop · Josh tab MS WIRE ROPE / Winch 2 · drawn to scale from the SWR schedule



Same build at USWR - NJCT 4 (US end), ropes US4 / US5 / US6: top drop 3'5", gaps 5'3" and 5'4". The straight to the last run is 4'11.25" there.

DS1 - NJCT 5 · AP1

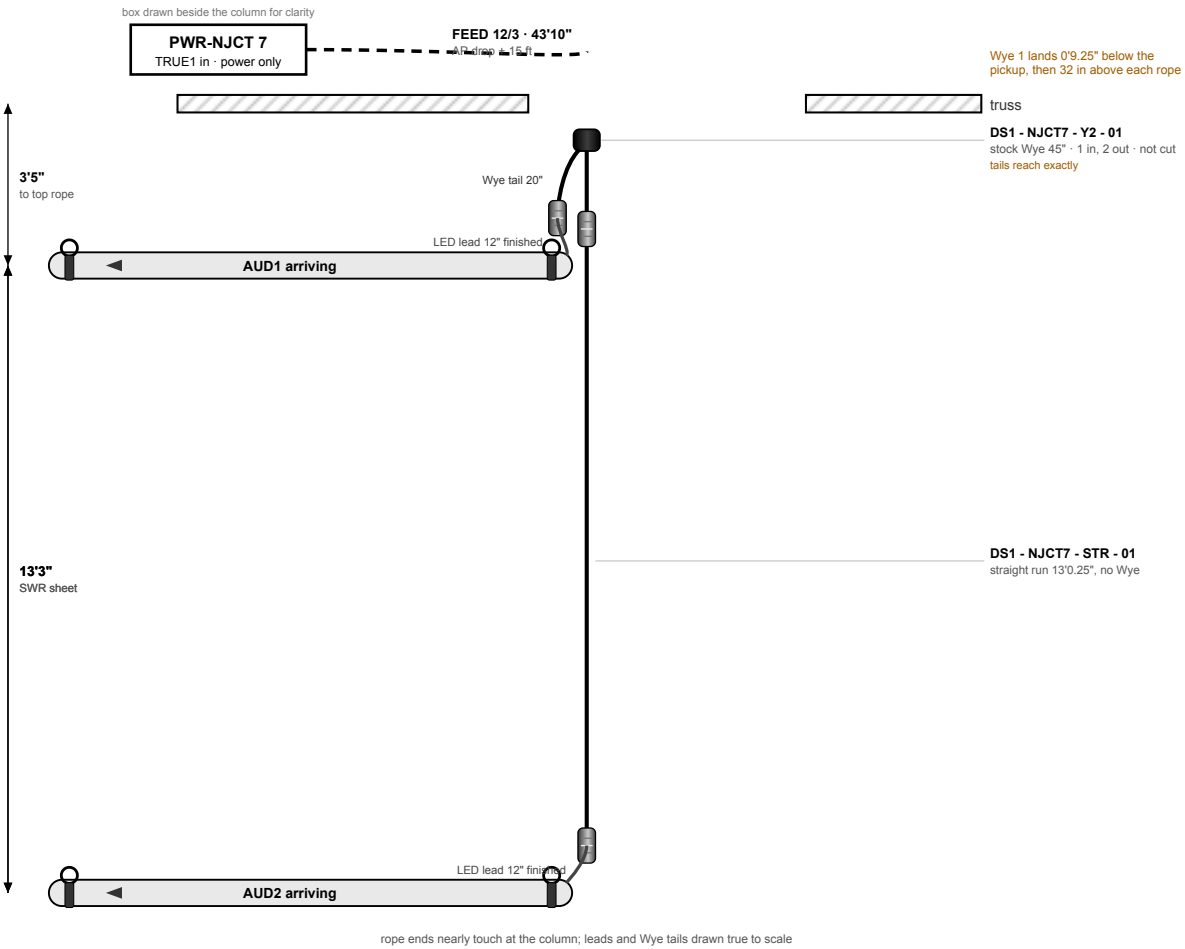
Mid span · 2 ropes · fixed drop · Josh tab DS ROPE 1 / Winch 1 · drawn to scale from the SWR schedule



Same build at DS1 - NJCT 6 (AP2): gap 12'5", so the jumper there is 8'8".

DS1 - NJCT 7 · AP3

End column, rope terminates · 2 ropes · fixed drop · Josh tab DS ROPE 1 / Winch 3 · drawn to scale from the SWR schedule



LOCATION NAMES OF RECORD

The left column is Josh's wire schedule. Everything KG3 prints, draws, or builds uses the ID in the second column, so the label, this drawing, the work order, and bea.kg3.io all read the same.

JOSH SLADE SWR TAB	KG3 ID	INJECTION POINT	ROPES	STAGE POSITION	TOP DROP · GAPS
MS WIRE ROPE / Winch 1	MSWR - NJCT1	PWR-NJCT 1, DSP split	DS1 / DS2 / DS3	on centerline, 19'3" upstage	3'3" · 5'4" · 5'5"
MS WIRE ROPE / Winch 2	MSWR - NJCT2	PWR-NJCT 2, DS end	DS1 / DS2 / DS3	29'10" SL, 12'11" upstage	3'3" · 5'4" · 5'5"
US WIRE ROPE / Winch 1	USWR - NJCT3	PWR-NJCT 3, USP split	US4 / US5 / US6	8'5" SL, 27'7" upstage	3'5" · 5'2" · 5'4"
US WIRE ROPE / Winch 2	USWR - NJCT4	PWR-NJCT 4, US end	US4 / US5 / US6	30'4" SL, 24'3" upstage	3'5" · 5'3" · 5'4"
DS ROPE 1 / Winch 1	DS1 - NJCT5	PWR-NJCT 5, AP1	AUD1 / AUD2	20'11" SR, on the DS motor line	3'5" · 9'1"
DS ROPE 1 / Winch 2	DS1 - NJCT6	PWR-NJCT 6, AP2	AUD1 / AUD2	15'2" SR, 32'10" downstage of AP1	3'5" · 12'5"
DS ROPE 1 / Winch 3	DS1 - NJCT7	PWR-NJCT 7, AP3	AUD1 / AUD2	9'7" SR, 65'7" downstage of AP1	3'5" · 13'3"
US 1	none	no injector	USR1	backdrop truss winches	rigging only
US 2	none	no injector	USR2	backdrop truss winches	rigging only

CABLE SCHEDULE AND LABEL INDEX · 37 SERIALIZED PIECES + THE 28 LED LEAD TRIMS

Every line is one physical piece with one serialized label. Labels print **white text on black tape** and go on before the clear heat shrink, one per end. Every piece on this sheet carries **power only on this show**: data starts at the pylon rack and rides through the rope itself, never down a drop. Wire every end to the **NL4-spi pin map** anyway, so the same cable can be used for SPI later: **1+ = V+**, **2- = GND**, **1- = SPI data**, 2+ not used. **Pin 1- is landed in every cable** so the 12/3 carries data if it is ever needed, and is **left empty on the NL4 inside the PWR-NJCT box and the rack**.

Connector convention: MALE toward the source, FEMALE toward the load, so a live pin is never left exposed. Wye **input = male**; wye outputs = female; jumper = **male top, female bottom**; straight = male top, female bottom; feeder end = female. Cables mate directly, so an NL4MMX barrel is only needed where two female ends meet: that is every LED rope joint (28 at the columns, 14 at the pylon run starts) plus the joins inside the long NL4 singles. **The LED rope leads are FEMALE on both ends, so every rope joint is a female-to-female joint through an NL4MMX barrel: lead to Wye output, lead to straight, lead to feeder at the pylon. The main rack feeders stay female to female, NL4 and NL8 alike.**

LABEL ID	LOCATION	PIECE	LENGTH	NOTE	CABLE
Molded Wyes, stock 45 in, NOT cut · 15 pieces					
MSWR - NJCT1 - Y3 - 01	DSP split · DS1	Y-3	stock 45"	body 0'7.25" below pickup	12/3
MSWR - NJCT1 - Y3 - 02	DSP split · DS2	Y-3	stock 45"	body 6'0.25" below pickup	12/3
MSWR - NJCT1 - Y2 - 03	DSP split · DS3	Y-2	stock 45"	body 11'5.25" below pickup	12/3
MSWR - NJCT2 - Y2 - 01	DS end · DS1	Y-2	stock 45"	body 0'7.25" below pickup	12/3
MSWR - NJCT2 - Y2 - 02	DS end · DS2	Y-2	stock 45"	body 6'0.25" below pickup	12/3
USWR - NJCT3 - Y3 - 01	USP split · US4	Y-3	stock 45"	body 0'9.25" below pickup	12/3
USWR - NJCT3 - Y3 - 02	USP split · US5	Y-3	stock 45"	body 6'2.25" below pickup	12/3
USWR - NJCT3 - Y2 - 03	USP split · US6	Y-2	stock 45"	body 11'7.25" below pickup	12/3
USWR - NJCT4 - Y2 - 01	US end · US4	Y-2	stock 45"	body 0'9.25" below pickup	12/3
USWR - NJCT4 - Y2 - 02	US end · US5	Y-2	stock 45"	body 6'2.25" below pickup	12/3

DS1 - NJCT5 - Y3 - 01	AP1 · AUD1	Y-3	stock 45"	body 0'9.25" below pickup	12/3
DS1 - NJCT5 - Y2 - 02	AP1 · AUD2	Y-2	stock 45"	body 9'10.25" below pickup	12/3
DS1 - NJCT6 - Y3 - 01	AP2 · AUD1	Y-3	stock 45"	body 0'9.25" below pickup	12/3
DS1 - NJCT6 - Y2 - 02	AP2 · AUD2	Y-2	stock 45"	body 13'2.25" below pickup	12/3
DS1 - NJCT7 - Y2 - 01	AP3 · AUD1	Y-2	stock 45"	body 0'9.25" below pickup	12/3
Jumpers between Wyes · 8 pieces					
MSWR - NJCT1 - JMP - 01	DSP split · DS1 to DS2	jumper	20"	stock 20 in	12/3
MSWR - NJCT1 - JMP - 02	DSP split · DS2 to DS3	jumper	20"	stock 20 in	12/3
MSWR - NJCT2 - JMP - 01	DS end · DS1 to DS2	jumper	20"	stock 20 in	12/3
USWR - NJCT3 - JMP - 01	USP split · US4 to US5	jumper	20"	stock 20 in	12/3
USWR - NJCT3 - JMP - 02	USP split · US5 to US6	jumper	20"	stock 20 in	12/3
USWR - NJCT4 - JMP - 01	US end · US4 to US5	jumper	20"	stock 20 in	12/3
DS1 - NJCT5 - JMP - 01	AP1 · AUD1 to AUD2	jumper	64"	custom	12/3
DS1 - NJCT6 - JMP - 01	AP2 · AUD1 to AUD2	jumper	104"	custom	12/3
Straight runs to a last rope · 3 pieces					
MSWR - NJCT2 - STR - 01	DS end · DS3 last run	straight	5'1.25"	NL4 both ends	12/3
USWR - NJCT4 - STR - 01	US end · US6 last run	straight	4'11.25"	NL4 both ends	12/3
DS1 - NJCT7 - STR - 01	AP3 · AUD2 last run	straight	13'0.25"	NL4 both ends	12/3
Feeders, PWR-NJCT box to Wye 1 · 7 pieces					
MSWR - NJCT1 - FEED - 01	DSP split	feeder	10'0"	to the LX drop	12/3
MSWR - NJCT2 - FEED - 01	DS end	feeder	10'0"	to the LX drop	12/3
USWR - NJCT3 - FEED - 01	USP split	feeder	10'0"	to the LX drop	12/3
USWR - NJCT4 - FEED - 01	US end	feeder	10'0"	to the LX drop	12/3
DS1 - NJCT5 - FEED - 01	AP1	feeder	41'0"	26'0" drop + 15 ft	12/3
DS1 - NJCT6 - FEED - 01	AP2	feeder	45'0"	30'0" drop + 15 ft	12/3
DS1 - NJCT7 - FEED - 01	AP3	feeder	43'10"	28'10" drop + 15 ft	12/3
Spares · 4 pieces					
SPARE - JUMP - 01	case	jumper	5'0"	NL4 both ends	12/3
SPARE - JUMP - 02	case	jumper	5'0"	NL4 both ends	12/3
SPARE - JUMP - 03	case	jumper	5'0"	NL4 both ends	12/3
SPARE - JUMP - 04	case	jumper	5'0"	NL4 both ends	12/3
LED side, cut and terminated by KG3 · 1 pieces					
LED LEAD TRIM - 28x	every rope end at an injection junction	cut + terminate	12" finished	TRIM the 1 m factory lead back to 12" finished (about 27" comes off). NL4 FEMALE on all 28 ends (the factory connector). Each lead joins its Wye output,	3 core 20AWG

				straight or feeder through an NL4MMX barrel.	
--	--	--	--	--	--

BEA Injection 3fer — shop built

Wire diagram · build 9 (6 + 3 spare) · prototype 1 first · KG3 · BEA 2026 (Beabadoobee Headline Tour) · rev Aug 31, 2026

What it is: the mid-span injection tee: **one feed in, two segment leads, one through leg** that continues down the chain. No molded 4-way exists from the vendor, so these are **shop built** with a junction: **12/3 SOOW, all four legs 3 ft, NL4 end on every leg**. Build 9: 6 in service + 3 spare. Build ONE first and have Kenny or Chance eyeball it before running the rest.

Wire map — POWER ONLY, all legs common conductor to conductor

CONDUCTOR (VERIFY AT BENCH)	NL4 PIN	FUNCTION
Black	1+	+24V leg 1
Red	2+	+24V leg 2
White	1–	shared GND (V–)
—	2–	EMPTY, capped and labeled

Where it goes

POSITION	LEG ROLES
Upper runs at a mid-span column (DSP, USP, AP1, AP2)	feed in from above · one lead to the segment END arriving at the column · one lead to the segment START leaving it · through leg continues down. The two segments never tie together.

Never at end columns - those are 2fers only. Chain drawing: bea.kg3.io/power.

KG3 LLC · Nashville TN · Build per the KG3 Cable Build Standard: label under clear heat shrink 9 in from the stripped end BEFORE terminating · continuity test every conductor end to end · log the build on the NeonOS cable build page. POWER ONLY tees: never land a tee leg on a data-carrying NL4 point. Verify jacket conductor colors at the bench before terminating; if they are not black, red and white, STOP and post a photo in Discord bea-packing.

BEA Injection 2fer — 12/3 molded Y

Wire diagram · terminate 12 (9 + 3 spare) · KG3 · BEA 2026 (Beabadoobee Headline Tour) · rev Aug 31, 2026

What it is: the molded injection tee for the BEA tee chains. AllBulbs molded rubber Y, **12/3 SOOW**, three legs. **Cut every leg to 3 ft from the molded body and terminate NL4 on every leg.** Terminate 12 of the 16 on hand: 9 in service + 3 spare; the other 4 stay blunt in stock.

Wire map — POWER ONLY, all legs common conductor to conductor

CONDUCTOR (VERIFY AT BENCH)	NL4 PIN	FUNCTION
Black	1+	+24V leg 1
Red	2+	+24V leg 2
White	1–	shared GND (V–)
—	2–	EMPTY, capped and labeled

Where it goes

POSITION	LEG ROLES
Bottom run at a mid-span column	feed in from above · one lead to each LED segment side (segments never tie together)
Upper runs at an END column	feed in from above · one lead to the arriving segment · through leg continues down the chain

It is only a 2fer on the ends: end columns use 2fers at every tee position. Mid-span columns use 3fers above the bottom run. Chain drawing: [bea.kg3.io/power](#).

KG3 LLC · Nashville TN · Build per the KG3 Cable Build Standard: label under clear heat shrink 9 in from the stripped end BEFORE terminating · continuity test every conductor end to end · log the build on the NeonOS cable build page. POWER ONLY tees: never land a tee leg on a data-carrying NL4 point. Verify jacket conductor colors at the bench before terminating; if they are not black, red and white, STOP and post a photo in Discord bea-packing.

Audience AP Fixed Drops — 12/3 → NL4

Wire diagram · 3 drops (NJCT 5/6/7) · lengths pending verify · KG3 · BEA 2026 (Beabadoobee Headline Tour) · rev Aug 31, 2026

What it is: fixed power drop at each audience chain-motor pickup (AP 1/2/3 = PWR-NJCT 5/6/7). **12/3 SOOW** from the flown PWR-NJCT down to the rope, lashed to the black pickup cable, terminated on **NL4**. Power only — **no data on any drop**; the NL4 data pin stays EMPTY.

Pin map (Chance's drop standard: two +24V legs + shared negative)

12/3 CONDUCTOR (TYPICAL)	NL4 PIN	FUNCTION
Black	1+	+24V leg 1
Red	2+	+24V leg 2
White	1–	shared GND (V–)
—	2–	EMPTY — no data on drops, cap and label

Lengths — DO NOT CUT YET

DROP	POSITION	WORKING LENGTH (UNVERIFIED)
NJCT 5	AP1 chain motor	26'0" + tails
NJCT 6	AP2 chain motor	30'0" + tails
NJCT 7	AP3 chain motor	28'10" + tails

Lengths are per Sheet 4.11 and NOT laser-verified. Wait for confirmed trim heights before cutting. 3 drops total, 12/3 SOOW, one gauge everywhere on this job (decision Aug 31). Custom length = GOLD tape.

KG3 LLC · Nashville TN · Build per the KG3 Cable Build Standard: label under clear heat shrink 9 in from the stripped end BEFORE terminating · job run tags on gaff, not shrink · continuity test every conductor end to end · log the build in the task. Wire colors on the actual jacket may differ from typical: run the wire color check and record the map. Do not guess.

BEA Power Through Jumper — 6 ft

Wire diagram · build 6 (3 + 3 spare) · KG3 · BEA 2026 (Beabadoobee Headline Tour) · rev Aug 31, 2026

What it is: the straight through jumper for the bottom run at END columns: the tee chain's through leg lands on it and it drops the last 5 ft 5 in (assumed) to the final run. **12/3 SOOW, 6 ft 0 in cut, straight through pin to pin, NL4 male one end and NL4 female the other.** Build 6: 3 in service + 3 spare.

Wire map — POWER ONLY, all legs common conductor to conductor

CONDUCTOR (VERIFY AT BENCH)	NL4 PIN	FUNCTION
Black	1+	+24V leg 1
Red	2+	+24V leg 2
White	1–	shared GND (V–)
—	2–	EMPTY, capped and labeled

Where it goes

POSITION	CONNECTION
DS end column · US end column · AP3	2fer through leg (above) → this jumper → NL4 joint at the last run's segment end

Do not confuse with rope jumpers: this is a power-map cable (black 1+, red 2+, white 1–), not the NL4 SPI rope map. GOLD tape (custom length).

KG3 LLC · Nashville TN · Build per the KG3 Cable Build Standard: label under clear heat shrink 9 in from the stripped end BEFORE terminating · continuity test every conductor end to end · log the build on the NeonOS cable build page. POWER ONLY tees: never land a tee leg on a data-carrying NL4 point. Verify jacket conductor colors at the bench before terminating; if they are not black, red and white, STOP and post a photo in Discord bea-packing.



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SPEC SHEET

Spec #: KG3-2FER-SOOW-01Project: Custom Molded 2fers - Quote Request (16 pieces)

VENDOR All Bulbs Attn: Lori quotes@allbulbs.com	REP Kenny Gay KG3 LLC kenny@kg3.io	BILL TO KG3 LLC 401 E Trinity Ln, Suite 120 Nashville, TN 37207	SHIP TO KG3 LLC 401 E Trinity Ln, Suite 120 Nashville, TN 37207
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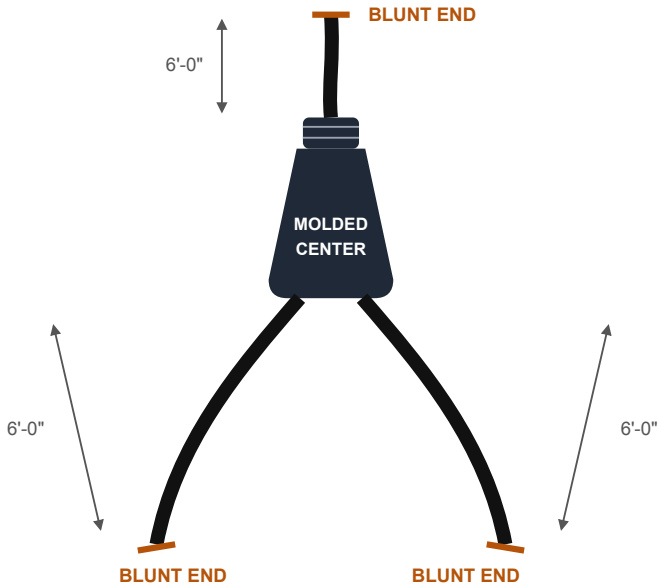
QTY	DESCRIPTION	CABLE	LEG LENGTHS	ENDS
14	Custom molded 2fer (Y splitter), molded center, black	12/3 SOOW	All three legs 6'-0" (72") each, measured from the molded body to the cable end	Pigtail/Blunt - no connectors on any end
2	Identical to above in every way, except cable size	10/3 SOOW	All three legs 6'-0" (72") each	Pigtail/Blunt - no connectors on any end

ONE BUILD, TWO CABLE SIZES

Every piece is the same geometry: one cable into the molded Y body, two cables out, all three legs 6'-0" long, all ends blunt cut. We terminate in-house. The only variation across the 16 pieces is the cable: 14 pieces in 12/3 SOOW and 2 pieces in 10/3 SOOW.

DRAWING - ONE PIECE (ALL 16 IDENTICAL GEOMETRY)

Not to scale



Cable:
12/3 SOOW (14 pcs)
10/3 SOOW (2 pcs)
black jacket

One leg in, two legs out of the molded Y center. Every leg 6'-0" (72") from the molded body to the cable end. All three ends blunt cut, no connectors.

NOTES

- Wired in parallel inside the molded center: like conductors joined (all three cables common), standard 2fer construction.
- All 16 pieces are geometrically identical. Only the cable size differs: 14 pieces in 12/3 SOOW, 2 pieces in 10/3 SOOW.
- Blunt ends on every leg. No plugs, no receptacles.
- Black SOOW jacket throughout.



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STYLE REFERENCE

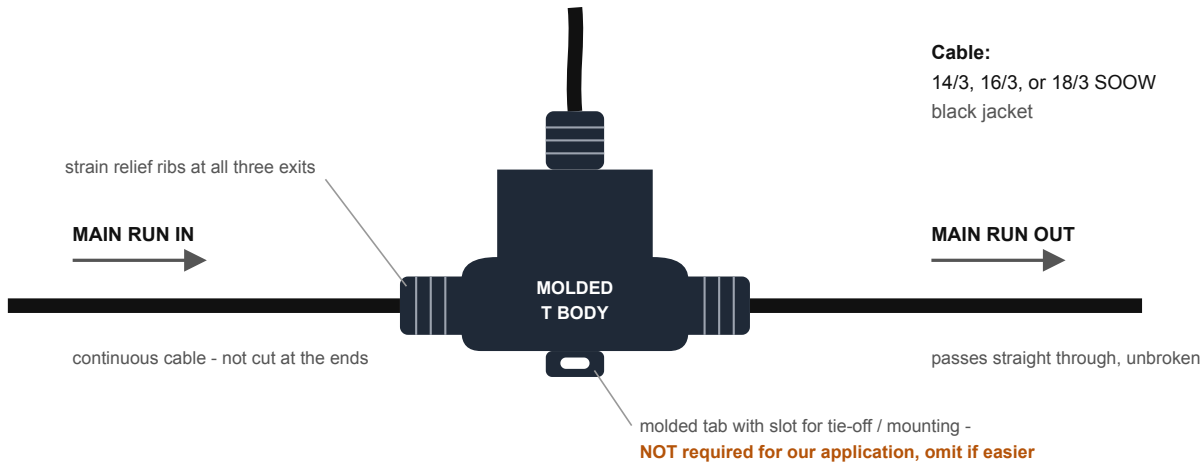
Ref #: KG3-TEE-SOOW-01 **Subject:** Inline Tee (T-Body Pass-Through Tap) - Style Inquiry

WHAT WE ARE ASKING ABOUT

This is the second connector style referenced in our email. Unlike the Y splitter 2fer (one cable in, two cables out, all at the ends), the inline tee sits in the MIDDLE of a cable: the main run enters one side of the molded body and continues straight out the other side, unbroken, while a third leg tees off perpendicular. Do you mold this style?

INLINE TEE - T-BODY PASS-THROUGH TAP

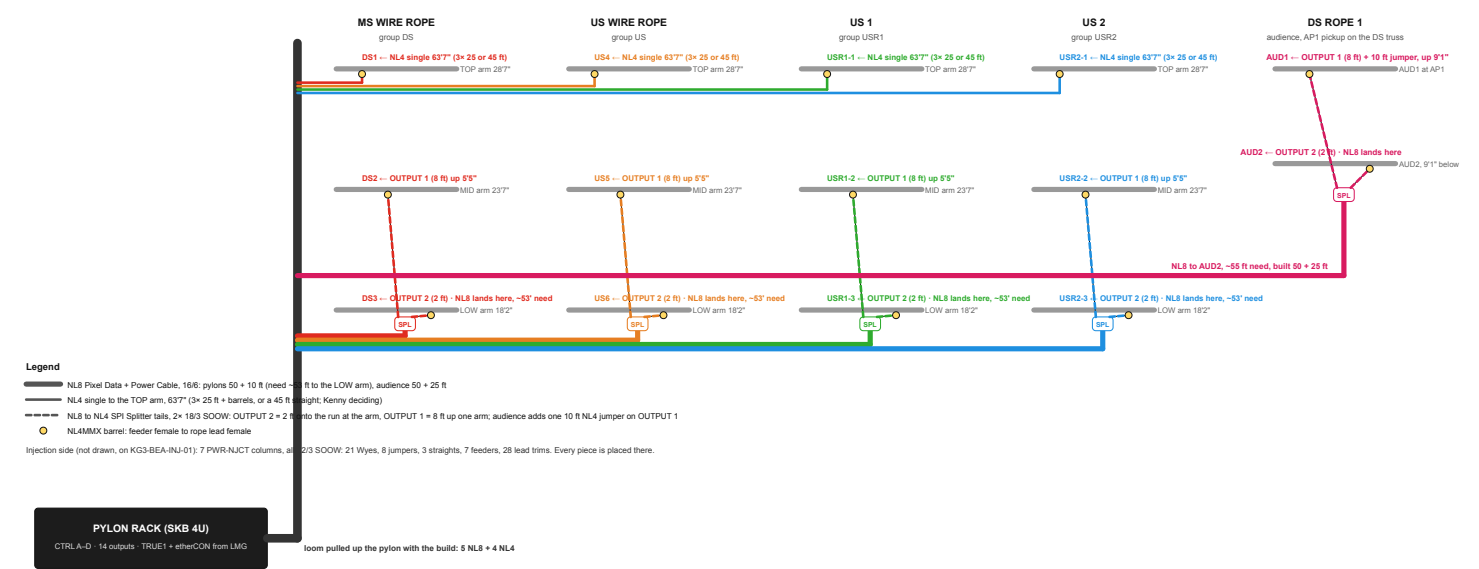
Not to scale



Side view. The horizontal cable is one continuous run through the molded body. The branch leg is the only added cable. Same molded construction and SOOW cable as the 2fers; all conductors joined in parallel inside the body.

BEA feeder cable map: where every rack-to-rope piece lands

Internal, Sep 2 2026, rev Sep 9. Geometry from Sheet 4.3 (pylon 28'7" , arms 18'2" / 23'7" / 28'7"), rack OFFSTAGE (~30 ft ground run) + 5 ft slack. Aug 31: 5 NL8 + 4 NL4 singles = 14 circuits. Sep 9 (Kenny): the NL8 lands at the LOW arm; the NL8 to NL4 SPI Splitter is 2x 18/3 SOOW, OUTPUT 1 = 8 ft tail up to run 2, OUTPUT 2 = 2 ft tail onto run 3, so ckt 1 stays on run 2 as patched. Injection columns are on KG3-BEA-INJ-01.



ITEM	PLACED ON THE MAP	NEED INCL. SPARES	HAVE / PLANNED	VERDICT
NL8 Pixel Data + Power Cable, 16/6 (50 + 10 ft to the LOW arm; 50 + 25 ft audience)	5 (DS, US, USR1, USR2, AUD)	8 = 5 + 3 spare	8x 50, 8x 25, 5x 10 ft on the NeonOS Cable Builds order	ok
NL8 to NL4 SPI Splitter, 2x 18/3 SOOW (OUTPUT 1 = 8 ft, OUTPUT 2 = 2 ft), black OUTPUT labels	5 (one per NL8)	8 = 5 + 3	8 to build, prototype first (NeonOS line 99cf5e04)	ok
NL4 single to the TOP arm, 63'7" each	4 (run 1 of each pylon group)	12x 25 ft or 4x 45 ft straight	Amazon 25s were junk and went back; nothing on hand	Kenny deciding build vs buy
NL4 10 ft jumper (audience only: on splitter OUTPUT 1 up to AUD1)	1	4 = 1 + 3	16 on hand (task note)	surplus: no build needed
NL4 20 ft	0 (Aug 17 per-run home runs, replaced by the NL8 plan Aug 31)	0	10 on hand, task says build 27 more	CANCEL the 27-piece build
16/3 SJOOW bulk	0 ft on this map (splitter tails are 18/3 SOOW since Sep 9)	keep ~100 ft	750 ft in stock	surplus: no more to buy
18/3 SOOW (splitter tails, 9 mm OD, 1/2 in shrink)	8 x (8 + 2) ft = 80 ft + trim	~100 ft	reel on the Reel Rack, count not recorded	check the reel
NL4MMX barrels	14 run starts + up to 8 joins if the singles are 25 ft pieces	22 (14 if 45 ft straights)	28 on hand	ok
12/3 SOOW (tee kits, 7 columns)	237 ft net	300 ft	not ordered	ok, order
Wyes Y-3 / Y-2	6 / 9	9 / 12	bodies on hand, terminate/build	ok

NL8 to NL4 SPI Splitter

Wire diagram · build 8 (5 + 3 spare) · prototype 1 first · KG3 · BEA 2026 (Beabadoobee Headline Tour) · rev Sep 9, 2026 (supersedes the Aug 31 16/6 version)

What it is: breakout that splits one Pixel Data + Power Cable (NL8) into the two NL4 circuits it serves. **Two 18/3 SOOW cables, one per NL4 leg, both landing in ONE NL8 cable connector (NL8FC).** There is no NL8 stub: each cable runs straight from the NL8 to its NL4. The NL8 side mates the Pixel Data + Power Cable through an **NL8 barrel**. Same colors in both cables: **WHITE = V+, GREEN = SPI data, BLACK = GND**. It is the NL8 rack panel (NL8MPR, two SPI outputs on 2x 18/3 SOOW) mirrored onto two ropes.

Tails (Kenny, Sep 9): OUTPUT 1 = the LONG 8 ft tail. OUTPUT 2 = the SHORT 2 ft tail. On the BEA pylons the NL8 trunk lands at the **BOTTOM arm: OUTPUT 2 (2 ft) feeds the bottom run** right there and **OUTPUT 1 (8 ft) rises one arm (5 ft 5 in) to the middle run**. Audience: the NL8 lands at AUD2, OUTPUT 2 onto AUD2, OUTPUT 1 plus the 10 ft NL4 jumper up to AUD1. Each tail gets its own label, OUTPUT 1 or OUTPUT 2; nothing else differs.

Pin map

CABLE	WIRE	NL8 POLE (CABLE SIDE)	NL4 TAIL	NL4 PIN	FUNCTION
Cable 1	White	1+	OUTPUT 1 (8 ft, long)	1+	V+ (+24V)
Cable 1	Green	1-	OUTPUT 1 (8 ft, long)	1-	SPI DATA 1
Cable 1	Black	2-	OUTPUT 1 (8 ft, long)	2-	GND
Cable 2	White	3+	OUTPUT 2 (2 ft, short)	1+	V+ (+24V)
Cable 2	Green	3-	OUTPUT 2 (2 ft, short)	1-	SPI DATA 2
Cable 2	Black	4-	OUTPUT 2 (2 ft, short)	2-	GND
—	no wire	2+ / 4+	—	2+ (both tails)	NOT IN USE. No wire, no jumper

Assembly stack at the bottom arm



Labels: two per splitter, on the NL4 tails

OUTPUT 1 · NL8-NL4 2x 18/3 SOOW · SPI Splitter · info@kg3.io on the **8 ft tail**

OUTPUT 2 · NL8-NL4 2x 18/3 SOOW · SPI Splitter · info@kg3.io on the **2 ft tail**. Same P-touch label, only the output number differs. **BLACK 24 mm tape, white text**, one wrap, clear shrink over it (18/3 SOOW is 9 mm OD: 1/2 in clear 2:1), 9 in from the stripped end, on BEFORE the NL4 goes on. No label on the NL8 end. Both .lxb files download from the NeonOS build page.

Prototype first: build ONE, verify with Kenny, then build the rest. **8 total** (5 in service + 3 spare). Both cables go through the one NL8FC gland (it takes 8 to 20 mm OD). NL8 barrels: 5 + spares needed. Wiring and tail rule per Kenny, Sep 9 2026.

KG3 LLC · Nashville TN · Build per the KG3 Cable Build Standard: label under clear heat shrink 9 in from the stripped end BEFORE terminating · job run tags on gaff, not shrink · continuity test every conductor end to end · log the build on the NeonOS build page. Wire colors on the actual jacket may differ from typical: run the wire color check and record the map. Do not guess.

Pixel Data + Power Cable — NL8 · 16/6, both ends

Wire diagram · build 8 (5 + 3 spare) · KG3 · BEA 2026 (Beabadoobee Headline Tour) · rev Aug 31, 2026

What it is: the Pixel Data + Power Cable, the feeder from the pylon control rack up to the LED runs. **16/6 wire, NL8 cable connector on BOTH ends, wired pin to pin (straight through).** Six of the eight poles are used: the cable carries TWO complete SPI circuits (V+ / GND / Data each). At the rack it plugs into the rack's NL8 output; at the top an NL8 barrel couples it to the NL8-to-2xNL4 splitter.

Pole map — same on both ends

NL8 POLE	CIRCUIT	FUNCTION	NOTES
1+	Circuit 1	+24V	Circuit 1 = first run this cable serves
1–	Circuit 1	SPI DATA	
2–	Circuit 1	GND (V–)	
2+	—	empty	no conductor
3+	Circuit 2	+24V	Circuit 2 = second run this cable serves
3–	Circuit 2	SPI DATA	
4–	Circuit 2	GND (V–)	
4+	—	empty	no conductor

Conductor assignment — per the vault wire standard, VERIFY on the actual jacket

CONDUCTOR	LANDS ON
Red	1+ (+24V ckt 1)
Green	1– (SPI DATA ckt 1)
Black	2– (GND ckt 1)
Orange	3+ (+24V ckt 2)
Blue	3– (SPI DATA ckt 2)
White	4– (GND ckt 2)

Both circuits are the recorded **nl8-spi-2x** wire standard (ckt 1 Red/Green/Black, ckt 2 Orange/Blue/White). Run the wire color check on the cable build page against the standard; every cable identical.

Quantities and lengths: 8 cables total (5 in service + 3 spare). **DO NOT CUT until the lengths are confirmed** (production to answer the path question on [bea.kg3.io/power](#)). Record the color map you use on the first build and keep every cable identical. Custom length = GOLD tape.

KG3 LLC · Nashville TN · Build per the KG3 Cable Build Standard: label under clear heat shrink 9 in from the stripped end BEFORE terminating · job run tags on gaff, not shrink · continuity test every conductor end to end · log the build in the task. Wire colors on the actual jacket may differ from typical: run the wire color check and record the map. Do not guess.

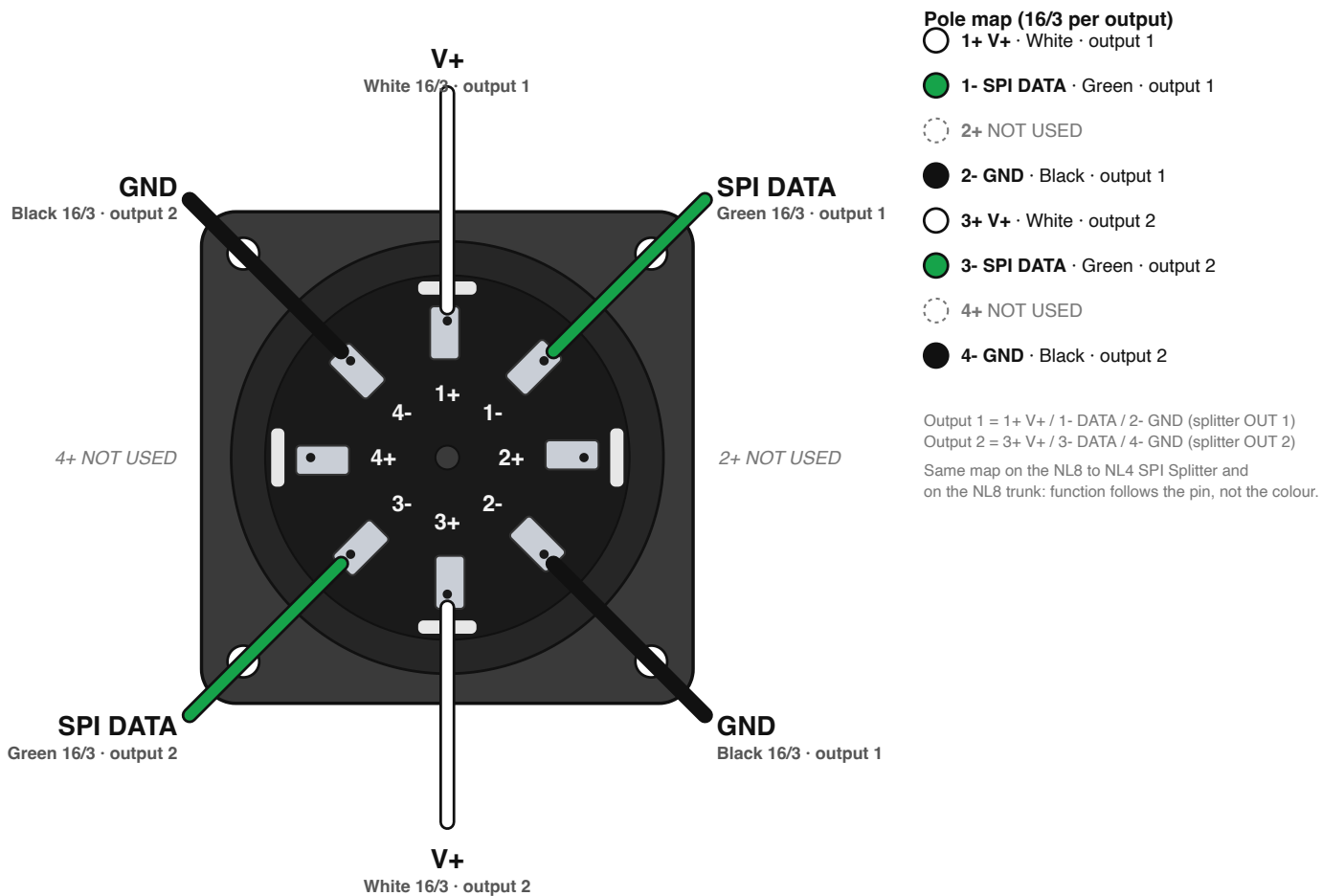
NL8 panel mount (NL8MPR), two SPI outputs per jack · 16/3 · inside the pylon rack

Wire diagram · 5 NL8 jacks on the rack front plate · KG3 · BEA 2026 (Beabadoobee Headline Tour) · rev Sep 17, 2026

What it is: the wiring behind each NL8 output jack on the rack front plate. Two Advatek A4-S Mk3 outputs land on one NL8, each on its own **16/3 SOOW** cable: **output 1 on poles 1+ / 1- / 2-**, **output 2 on poles 3+ / 3- / 4-**. **WHITE = V+**, **GREEN = SPI DATA**, **BLACK = GND**. **2+ and 4+ are NOT USED** (no wire, no jumper). Same map on the NL8 trunk and on the NL8 to NL4 SPI Splitter: OUTPUT 1 = poles 1/2, OUTPUT 2 = poles 3/4.

NL8 Panel Mount (NL8MPR) - 2x SPI Pixel LED outputs - 16/3 wire

Solder side of the rack jack, as seen inside the rack. Two 16/3 SOOW cables (White / Green / Black), one per Advatek output. 2+ and 4+ NOT USED.



Wire map of record: NeonOS cable type NL8 to NL4 SPI Splitter / wireDiagramcreator nl8-spi-2x. Geometry: NL8MPR solder side, 1+ at 12 o'clock under the key.

Pole map, solder side of the panel jack

NL8 POLE	OUTPUT	FUNCTION	16/3 CONDUCTOR	LANDS ON
1+	Output 1	+24V (V+)	White	Advatek output 1 V+ terminal
1–	Output 1	SPI DATA	Green	Advatek output 1 DATA terminal
2+	NOT USED, no wire			
2–	Output 1	GND (V–)	Black	Advatek output 1 GND terminal
3+	Output 2	+24V (V+)	White	Advatek output 2 V+ terminal
3–	Output 2	SPI DATA	Green	Advatek output 2 DATA terminal
4+	NOT USED, no wire			
4–	Output 2	GND (V–)	Black	Advatek output 2 GND terminal

Function follows the pin, never the colour. If a jacket shows different colours, land by function and tell Kenny.
Same map on every one of the 5 jacks.

Rule of record (Kenny, Sep 17 2026): this replaces the Sep 4 "16/4 with clock on 2+ / 4+" sheet. Nothing on this tour carries clock. Verify every conductor end to end before the rack ships.

KG3 LLC · Nashville TN · Build per the KG3 Cable Build Standard: continuity test every conductor end to end · label the run (A / B) on each 16/4 tail at the Advatek end · log the build in the task. Pin geometry from the KG3 wire-diagram database (NL8MPR male panel, solder view, 1+ at 12 o'clock under the key).



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RIGGING RING DETAIL

Spec #: KG3-BEA-RING-01

Job: Beabadoobee 2026 Headline Tour

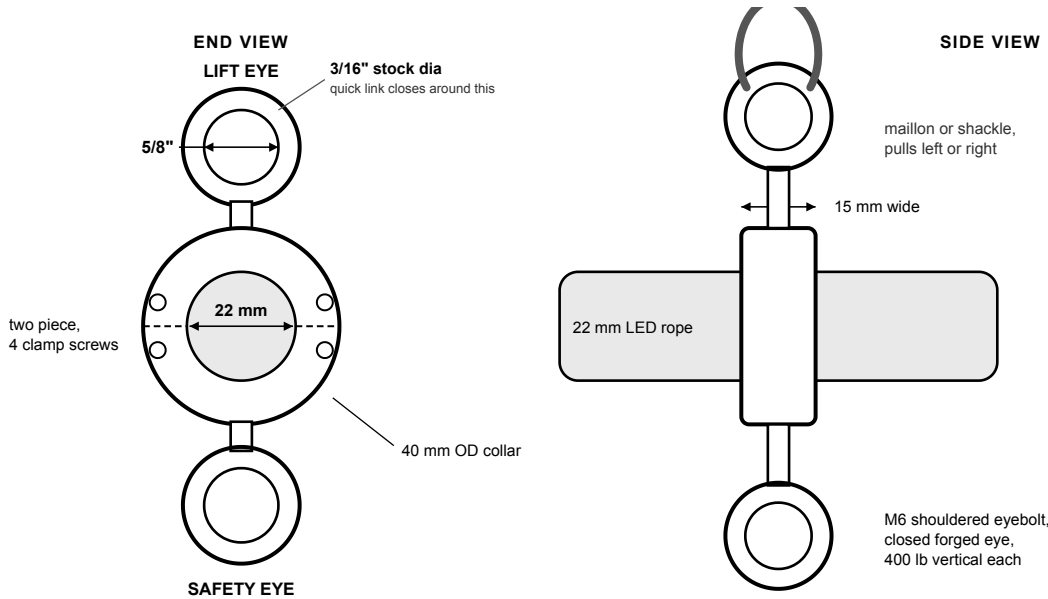
Date: August 31, 2026

Every rigging point on the LED rope gets a pair of KG3 rigging rings. One ring is a two piece steel clamp collar that closes around the 22 mm rope with two shouldered M6 lifting eyebolts threaded into the collar, one on each face. The upper eye takes the lift, the opposite eye takes the safety. Both eyes are closed forged steel with no gate, so a maillon or shackle passes straight through and can pull left or right.

Eye opening: 5/8 in (15.9 mm) inside diameter. Eye stock: 3/16 in (4.8 mm). Size maillons and shackles to this hole. Pins and gates up to roughly 13 mm pass through, and the link closes around the 3/16 in stock with ease. Common 6 to 10 mm maillons fit with room.

RIGGING RING, END AND SIDE VIEWS

Not to scale. Dimensions as noted.



One ring shown. Rings are installed in pairs at every rigging point, side by side on the rope.

ITEM	SPECIFICATION
Eye opening (hole for maillon or shackle)	5/8 in (15.9 mm) inside diameter
Eye stock diameter	3/16 in (4.8 mm), the section a quick link or shackle closes around
Eyebolt	Steel shouldered lifting eyebolt, M6 x 1, closed forged eye, zinc plated
Rated capacity	400 lb (181 kg) vertical, per eye
Eyes per ring	2, on opposite faces of the collar: one lift, one safety
Collar	Two piece steel clamp collar, 40 mm OD x 15 mm wide, four socket head clamp screws
Fits	22 mm 360 degree LED rope (KG3 LumiRope 360 22 mm)
Rings per rigging point	2

NOTES FOR RIGGING

- The eye is closed and forged, no gate, so hardware must pass through the 5/8 in opening and close around the 3/16 in stock. Maillons work great and can pull left or right.
- Each rigging point carries two rings: connect the lift to one ring's lift eye and the safety to the second ring.
- Per point rope loads are on the live rigging page: <https://bea.kg3.io/rigging>



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LED SEGMENT CHECKLIST

KG3-BEA-CHK-01 · Beabadoobee 2026 Headline Tour · 24 show pieces + 9 spares · September 2, 2026

Cut LumiRope 360 22 mm black, 20 px/m, cut points every 50 mm. Cut = drawing length rounded UP to the next 50 mm. Never round down. Show pieces come out of 10 m and 11 m stock; USR out of 5 m.	Leads · 12 in finished Leave 12 in of lead measured from the rope end at every column junction (factory lead is about 1 m, so about 27 in comes off). Measure from the rope, mark, then cut. Rack-fed IN ends and USR far ends: length per Kenny.	NL4 gender Every rope points the same way: IN end = FEMALE, OUT end = MALE . The end arriving at a column is male (18), the end leaving is female (10). No male to male anywhere.	Pin map (NL4 SPI) 1+ RED = V+ 24V 1- YELLOW = SPI data 2- BLACK = GND 2+ empty Label = band template, IN and OUT on each piece. Test = power up, full white, count pixels.
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CUT	LEADS	LABEL	TEST	PIECE	DRAWING	CUT / PX	CONTROLLER	UNIVERSE.CH	ENDS	INIT / DATE
DS wire ropes (MS WIRE ROPE) · 6 pieces										
☐	☐	☐	☐	DS1-1 seg 1 of 2 · DS1	30'0" 9.14 m	9,150 mm 183 px	CTRL A · out 1 NL4 single	41.1 to 42.39 run 41-43	IN F rack feeder OUT M NJCT 1 (DSP, LX truss) · 12 in	
☐	☐	☐	☐	DS1-2 seg 2 of 2 · DS1	30'6" 9.30 m	9,300 mm 186 px	CTRL A · out 1 NL4 single	42.40 to 43.87 run 41-43	IN F NJCT 1 (DSP, LX truss) · 12 in OUT M NJCT 2 (DS end, backdrop truss) · 12 in	
☐	☐	☐	☐	DS2-1 seg 1 of 2 · DS2	30'0" 9.14 m	9,150 mm 183 px	CTRL A · out 2 NL8 a	44.1 to 45.39 run 44-46	IN F rack feeder OUT M NJCT 1 (DSP, LX truss) · 12 in	
☐	☐	☐	☐	DS2-2 seg 2 of 2 · DS2	30'6" 9.30 m	9,300 mm 186 px	CTRL A · out 2 NL8 a	45.40 to 46.87 run 44-46	IN F NJCT 1 (DSP, LX truss) · 12 in OUT M NJCT 2 (DS end, backdrop truss) · 12 in	
☐	☐	☐	☐	DS3-1 seg 1 of 2 · DS3	30'0" 9.14 m	9,150 mm 183 px	CTRL A · out 3 NL8 b	47.1 to 48.39 run 47-49	IN F rack feeder OUT M NJCT 1 (DSP, LX truss) · 12 in	
☐	☐	☐	☐	DS3-2 seg 2 of 2 · DS3	30'6" 9.30 m	9,300 mm 186 px	CTRL A · out 3 NL8 b	48.40 to 49.87 run 47-49	IN F NJCT 1 (DSP, LX truss) · 12 in OUT M NJCT 2 (DS end, backdrop truss) · 12 in	
US wire ropes (US WIRE ROPE) · 6 pieces										
☐	☐	☐	☐	US4-1 seg 1 of 2 · US4	28'4" 8.64 m	8,650 mm 173 px	CTRL B · out 2 NL4 single	58.1 to 59.9 run 58-59	IN F rack feeder OUT M NJCT 3 (USP, scenic truss) · 12 in	
☐	☐	☐	☐	US4-2 seg 2 of 2 · US4	21'10" 6.65 m	6,700 mm 134 px	CTRL B · out 2 NL4 single	59.10 to 59.411 run 58-59	IN F NJCT 3 (USP, scenic truss) · 12 in OUT M NJCT 4 (US end, scenic truss) · 12 in	
☐	☐	☐	☐	US5-1 seg 1 of 2 · US5	28'4" 8.64 m	8,650 mm 173 px	CTRL B · out 3 NL8 a	60.1 to 61.9 run 60-61	IN F rack feeder OUT M NJCT 3 (USP, scenic truss) · 12 in	
☐	☐	☐	☐	US5-2 seg 2 of 2 · US5	21'10" 6.65 m	6,700 mm 134 px	CTRL B · out 3 NL8 a	61.10 to 61.411 run 60-61	IN F NJCT 3 (USP, scenic truss) · 12 in OUT M NJCT 4 (US end, scenic truss) · 12 in	
☐	☐	☐	☐	US6-1 seg 1 of 2 · US6	28'4" 8.64 m	8,650 mm 173 px	CTRL B · out 4 NL8 b	62.1 to 63.9 run 62-63	IN F rack feeder OUT M NJCT 3 (USP, scenic truss) · 12 in	
☐	☐	☐	☐	US6-2 seg 2 of 2 · US6	21'10" 6.65 m	6,700 mm 134 px	CTRL B · out 4 NL8 b	63.10 to 63.411 run 62-63	IN F NJCT 3 (USP, scenic truss) · 12 in OUT M NJCT 4 (US end, scenic truss) · 12 in	
USR1 (US 1) · 3 pieces										
☐	☐	☐	☐	USR1-1 seg 1 of 1 · USR1-1	16'0" 4.88 m	4,900 mm 98 px	CTRL C · out 1 NL4 single	64.1 to 64.294 run 64-64	IN F rack feeder OUT M far end (no injector)	
☐	☐	☐	☐	USR1-2 seg 1 of 1 · USR1-2	16'0" 4.88 m	4,900 mm 98 px	CTRL C · out 2 NL8 a	65.1 to 65.294 run 65-65	IN F rack feeder OUT M far end (no injector)	
☐	☐	☐	☐	USR1-3 seg 1 of 1 · USR1-3	16'0" 4.88 m	4,900 mm 98 px	CTRL C · out 3 NL8 b	66.1 to 66.294 run 66-66	IN F rack feeder OUT M far end (no injector)	
USR2 (US 2) · 3 pieces										

CUT	LEADS	LABEL	TEST	PIECE	DRAWING	CUT / PX	CONTROLLER	UNIVERSE.CH	ENDS	INIT / DATE
☐	☐	☐	☐	USR2-1 seg 1 of 1 · USR2-1	16'4" 4.98 m	5,000 mm 100 px	CTRL D · out 1 NL4 single	67.1 to 67.300 run 67-67	IN F rack feeder OUT M far end (no injector)	
☐	☐	☐	☐	USR2-2 seg 1 of 1 · USR2-2	16'4" 4.98 m	5,000 mm 100 px	CTRL D · out 2 NL8 a	68.1 to 68.300 run 68-68	IN F rack feeder OUT M far end (no injector)	
☐	☐	☐	☐	USR2-3 seg 1 of 1 · USR2-3	16'4" 4.98 m	5,000 mm 100 px	CTRL D · out 3 NL8 b	69.1 to 69.300 run 69-69	IN F rack feeder OUT M far end (no injector)	
Audience (DS ROPE 1) · 6 pieces										
☐	☐	☐	☐	AUD1-1 seg 1 of 3 · AUD1	26'2" 7.98 m	8,000 mm 160 px	CTRL A · out 4 NL8 a	50.1 to 50.480 run 50-53	IN F rack feeder OUT M NJCT 5 (AP1 motor) · 12 in	
☐	☐	☐	☐	AUD1-2 seg 2 of 3 · AUD1	33'4" 10.16 m	10,200 mm 204 px	CTRL A · out 4 NL8 a	50.481 to 52.72 run 50-53	IN F NJCT 5 (AP1 motor) · 12 in OUT M NJCT 6 (AP2 motor) · 12 in	
☐	☐	☐	☐	AUD1-3 seg 3 of 3 · AUD1	33'5" 10.19 m	10,200 mm 204 px	CTRL A · out 4 NL8 a	52.73 to 53.174 run 50-53	IN F NJCT 6 (AP2 motor) · 12 in OUT M NJCT 7 (AP3 motor) · 12 in	
☐	☐	☐	☐	AUD2-1 seg 1 of 3 · AUD2	27'2" 8.28 m	8,300 mm 166 px	CTRL B · out 1 NL8 b	54.1 to 54.498 run 54-57	IN F rack feeder OUT M NJCT 5 (AP1 motor) · 12 in	
☐	☐	☐	☐	AUD2-2 seg 2 of 3 · AUD2	33'7" 10.24 m	10,250 mm 205 px	CTRL B · out 1 NL8 b	54.499 to 56.93 run 54-57	IN F NJCT 5 (AP1 motor) · 12 in OUT M NJCT 6 (AP2 motor) · 12 in	
☐	☐	☐	☐	AUD2-3 seg 3 of 3 · AUD2	33'5" 10.19 m	10,200 mm 204 px	CTRL B · out 1 NL8 b	56.94 to 57.195 run 54-57	IN F NJCT 6 (AP2 motor) · 12 in OUT M NJCT 7 (AP3 motor) · 12 in	
Spares (stock lengths, do not cut) · 9 pieces										
☐	☐	☐	☐	SPARE-5M-1 any 5 m	5m stock 5.00 m	5,000 mm 100 px	<i>stock spare · label + test only</i>			
☐	☐	☐	☐	SPARE-5M-2 any 5 m	5m stock 5.00 m	5,000 mm 100 px	<i>stock spare · label + test only</i>			
☐	☐	☐	☐	SPARE-5M-3 any 5 m	5m stock 5.00 m	5,000 mm 100 px	<i>stock spare · label + test only</i>			
☐	☐	☐	☐	SPARE-10M-1 any 10 m	10m stock 10.00 m	10,000 mm 200 px	<i>stock spare · label + test only</i>			
☐	☐	☐	☐	SPARE-10M-2 any 10 m	10m stock 10.00 m	10,000 mm 200 px	<i>stock spare · label + test only</i>			
☐	☐	☐	☐	SPARE-10M-3 any 10 m	10m stock 10.00 m	10,000 mm 200 px	<i>stock spare · label + test only</i>			
☐	☐	☐	☐	SPARE-11M-1 any 11 m	11m stock 11.00 m	11,000 mm 220 px	<i>stock spare · label + test only</i>			
☐	☐	☐	☐	SPARE-11M-2 any 11 m	11m stock 11.00 m	11,000 mm 220 px	<i>stock spare · label + test only</i>			
☐	☐	☐	☐	SPARE-11M-3 any 11 m	11m stock 11.00 m	11,000 mm 220 px	<i>stock spare · label + test only</i>			

KG3 · Beabadoobee 2026 · LED Segment Checklist · live check-off at bea.kg3.io/chance

Patch: sACN 41-69 · 3,765 px · lengths Sheet 4.11 V2.2 · pixels = ceil(m × 20)



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Equipment Pull Sheet

Doc #: KG3-26-BEA-PS1 **Project:** Beabadoobee 2026 Headline Tour — LED Package — 08/25/2026

JOB BEA 2026 (Beabadoobee Headline Tour) LED rope rig: 24 segments / 10 runs / 190.3 m lit Drawings V2.2 · Sheet 4.11	PREP LOCATION KG3 LLC 401 E Trinity Ln, Suite 120 Nashville, TN 37207	PACK PLAN Rev D (Aug 25, 2026) 6 ProX cases · three 2-high stacks 2.5 linear ft · weights TBD
REP Kenny Gay KG3 LLC kenny@kg3.io	KG3 TOUR TECH Chance Robison	PULL RECORD NeonOS prep workflow os.kg3.io — job: BEA 2026 Packing Photos + counts to #bea-packing

SHEET DATE 08/25/2026	ROPE ARRIVAL (EST.) ~08/21/2026	CASE A/B ON HAND 08/18/2026 · R-01-04 on order	STATUS Pull Sheet — Not a Quote
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QTY	ITEM	SPEC / NOTES	PACKS IN	PULLED
LED ROPE — LUMIROPE 360 22MM BLACK (NL-WS2811-120Φ22)				
17	LED neon rope, 10 m pieces	22 mm round black, 360°, DC24V WS2811, 120 LED/m, 20 px/m. 14 show + 3 spare. 21" OD flat donut coils, 2 per layer.	R-01 / R-02	☐
7	LED neon rope, 11 m pieces	Same product. 4 show + 3 spare.	R-03	☐
9	LED neon rope, 5 m pieces	Same product. 6 show + 3 spare. Spares below the divider.	R-04	☐
<i>Total 33 pieces / 292 m stock covering the 24-segment show requirement plus 3 spares per stock length. Measured draw of record: 0.96 A/m / 23.04 W/m max at full RGB white. Weigh a 10 m piece on arrival (420 g/m is spec, not scale).</i>				
			LED Rope Total	33 pcs
CONTROL & POWER				
5	PXL-CTRL 24V 4-output pixel controllers	CTRL A (DS), B (US), C (USR1), D (USR2), E (Audience). Mean Well HLG-600H-24 PSU, 100-240V auto-switching. powerCON TRUE1 in + etherCON data, pass-through on both. Deck position at pylon base. Each unit housed in its Apache 2800 case + cheeseborough.	CASE A (Apache slots)	☐
7	PWR-NJCT flown power injectors	AC (TRUE1) up, converts to 24V DC at height, DC down the drop. 4 ride cable retractors at the DS/US injector winches (NJCT 1-4); 3 fixed drops on the AP chain-motor pickups. No data at flown boxes. Each unit housed in its Apache 2800 case + cheeseborough.	CASE A (Apache slots)	☐

QTY	ITEM	SPEC / NOTES	PACKS IN	PULLED
Apache 2800 cases + cheeseboroughs travel as part of each PXL-CTRL / PWR-NJCT unit (not pulled separately). Pylon-area service of record: ~18 A @ 120V (US) or ~10 A @ 230V (UK) incl. 25% headroom. Full rig 4.33 kW / 180.3 A DC at full white. HOLD note: final controller/injector packaging awaits release; pack per Kenny's go.				
Control & Power Total			12 pcs	
CABLE & DISTRIBUTION				
37	NL4 jumper, 20 ft (black)	Pylon feeder home runs: TOP arm 3x20 per run, MID 2x20+1x10, LOW 2x20, AUD 2x20+1x10. 32 build + 5 spare. Black only on the scenic pylon. Label both ends RUN + LEVEL (e.g. DS1-1 TOP).	CASE B (upper tray)	☐
8	NL4 jumper, 10 ft (black)	6 build (4 mid-arm + 2 audience) + 2 spare.	CASE B (upper tray)	☐
28	speakON NL4MMX coupler barrels	Join two jumpers into one feeder run. 24 build + 4 spare. Bagged and labeled.	CASE B (upper tray)	☐
~24	NL4 jumper, 10 ft — winch pod outputs	7 pods x 3 rope levels + 3 spares. COUNT AND HOLD in shop; do not pack until the pod decision is released.	HOLD — shop	☐
Feeder total ~700 ft plus spares. NL4 5 ft stock (35 owned) stays home as trim pieces; two 10 ft + a barrel substitutes for one 20 ft in a pinch (record how many). Preferred workflow: KG3 looms + labels feeders at rehearsals; pylon build crew pulls the loom up as the pylon goes up.				
Cable & Distribution Total			73 + 24 hold	
RIGGING & SAFETY				
100	BEA 22 mm rope rigging rings	Two-piece shaft collar + 2x M6 eyebolt (lift + safety) per ring. 76 use (38 points x 2) + 24 spares. Built per ring build plan ONLY; never the 10 stocked 40 mm rings. Clamp to rope after arrival.	CASE B (labeled bin)	☐
120	18 in lighting safety cables, rated, black	Two bins. No rating tag = does not travel.	CASE B (lower)	☐
Rigging & Safety Total			220 pcs	
ROAD CASES (REV D)				
4	ProX TruckPaX XS-UTL243036W MK2 utility trunks (divider & tray, black)	Rope cases R-01 to R-04, 24 x 30 x 36". R-01/R-02: 10 m pieces. R-03: 11 m pieces. R-04: 5 m pieces. Replaces the two Rose Brand hampers (Rev C). Label both long sides: KG3 · BEA 2026 · R-0x.	Truck stacks 1 + 2	☐
1	ProX XS-UTL483036W MK2 utility trunk	CASE A, 48 x 30 x 36", adjustable dividers. Controllers + injectors in Apache slots, 378 lb gross.	Truck stack 3 (floor)	☐
1	ProX XS-UTL483030W MK2 utility trunk	CASE B, 48 x 30 x 30". Lower: safeties. Upper: NL4 feeders + barrels + rings, 230 lb gross.	Truck stack 3 (top)	☐
Truck pack (Rev D): three 2-high stacks side by side — R-02 on R-01 R-04 on R-03 CASE B on CASE A. 96" wide of 99" x 30" deep (2.5 linear ft) x 72" tall (rope stacks) / 66" (A+B). All six cases same 30" depth, one flat wall. Heavy on the floor every stack. Gross weights TBD once rope lands; re-run point loads. Rope split R-				

QTY	ITEM	SPEC / NOTES	PACKS IN	PULLED
		01/R-02 (10 m), R-03 (11 m), R-04 (5 m + spares) is provisional pending a layer check in the 24 x 30 footprint (21" donut = 1 per layer). Printed manifest taped inside each lid when final.		
			Road Cases Total	6 cases

PROVIDED BY LMG / PRODUCTION (NOT IN THE KG3 PACK)

Wahlberg winches (Winch 50 Double preferred, item 246.4), cable retractors at NJCT 1-4, chain motors and pickups at AP 1-3, powerCON TRUE1 power feeds to the pylon rack and each flown PWR-NJCT, and Cat5/etherCON data to the pylon rack only. Data originates at the pylon PXL-CTRL rack and travels through the rope; the 7 flown injectors need TRUE1 power and nothing else.

PULL RULES

- This is an equipment pull sheet, not a quote or invoice. No pricing applies to this document.
- Record every pull in NeonOS: stock into a storage bin first, then scan into the BEA prep work order. Lines with no barcode go in as manual rows in the prep bin.
- Post counts, shortfalls, and a photo of every packed case layer in #bea-packing the same day.
- Controllers, injectors, Apache cases, cheeseboroughs, pod hardware, and PSU racks pack only on Kenny's release.
- Black NL4 only on the scenic pylon; grey or colored jumpers stay home.
- Rope handling: 21" OD flat donut coils, one per layer in the 24 x 30" rope cases; confirm minimum bend radius against the 9" coil radius on arrival.
- Any freight damage on cases or rope: photograph before signing anything.

B

STAGEHAND DAY SHEETS

One page per built section. Which labeled LED goes where, IN and OUT, what feeds it. Print a stack.

- KG3-BEA-SEC-01 · Section Build Sheets (DS, US, AUD, USR1, USR2, RACK)
- RACK · Rack front panel: which port is which
- KG3-BEA-PWR-01 R3 · Power Injection Map (letter)
- PX1 · Patch Elevation, runs as they hang
- KG3-BEA-CHK-01 · LED Segment Checklist (daily check-off)



DS · MS WIRE ROPE

Downstage wire rope, 3 runs x 2 pieces, pylon arms TOP / MID / LOW



1 · What plugs in from the rack (one feeder per run, IN end of piece 1)

Run	Where	Rack port	Feeder cable	Controller	px	sACN
DS1	TOP arm	NL4-1	NL4-1 single, 16/3 NL4: 3x 20 ft + 1x 10 ft + barrels (70 ft) arrives at the TOP arm	CTRL A out 1 192.168.41.41	369	41 to 43
DS2	MID arm	NL8-1 a	NL8-1 50 ft + 10 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 1 (8 ft tail) arrives at the MID arm (8 ft tail up)	CTRL A out 2 192.168.41.41	369	44 to 46
DS3	LOW arm	NL8-1 b	NL8-1 50 ft + 10 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 2 (2 ft tail) arrives at the LOW arm (at the splitter)	CTRL A out 3 192.168.41.41	369	47 to 49

2 · Pieces in hang order (label on the rope = BBDB name + IN / OUT). Every rope joint = NL4MMX barrel.

Label	Cut / pixels	IN end lands at	OUT end lands at
BBDB DS1-1 DS1 piece 1 of 2	30'0" 183 px · 41.1 to 42.39	IN RACK FEEDER NL4-1 (barrel to the feeder NL4)	OUT NJCT 1 (DSP, LX truss) MSWR-NJCT1 · 3fer Y3-01
BBDB DS1-2 DS1 piece 2 of 2	30'6" 186 px · 42.40 to 43.87	IN NJCT 1 (DSP, LX truss) MSWR-NJCT1 · 3fer Y3-01 leaving side	OUT NJCT 2 (DS end, backdrop truss) MSWR-NJCT2 · 2fer Y2-01
BBDB DS2-1 DS2 piece 1 of 2	30'0" 183 px · 44.1 to 45.39	IN RACK FEEDER NL8-1 a (barrel to the feeder NL4)	OUT NJCT 1 (DSP, LX truss) MSWR-NJCT1 · 3fer Y3-02
BBDB DS2-2 DS2 piece 2 of 2	30'6" 186 px · 45.40 to 46.87	IN NJCT 1 (DSP, LX truss) MSWR-NJCT1 · 3fer Y3-02 leaving side	OUT NJCT 2 (DS end, backdrop truss) MSWR-NJCT2 · 2fer Y2-02
BBDB DS3-1 DS3 piece 1 of 2	30'0" 183 px · 47.1 to 48.39	IN RACK FEEDER NL8-1 b (barrel to the feeder NL4)	OUT NJCT 1 (DSP, LX truss) MSWR-NJCT1 · 2fer Y2-03
BBDB DS3-2 DS3 piece 2 of 2	30'6" 186 px · 48.40 to 49.87	IN NJCT 1 (DSP, LX truss) MSWR-NJCT1 · 2fer Y2-03 leaving side	OUT NJCT 2 (DS end, backdrop truss)

3 · Injector columns on this section (power only; see KG3-BEA-PWR-01 for lengths)

PWR-NJCT 1 MSWR-NJCT1 DSP split · mid span · top rope 3'3" below the pickup · fed by LMG retractor, box feed 10 ft F to F 3fer Y3-01: DS1-1 arriving, DS1-2 leaving · JMP-01 20 in jumper down to the next Wye 3fer Y3-02: DS2-1 arriving, DS2-2 leaving · JMP-02 20 in jumper down to the next Wye 2fer Y2-03: DS3-1 arriving, DS3-2 leaving	PWR-NJCT 2 MSWR-NJCT2 DS end · ropes terminate · top rope 3'3" below the pickup · fed by LMG retractor, box feed 10 ft F to F 2fer Y2-01: DS1-2 arriving, rope terminates · JMP-01 20 in jumper down to the next Wye 2fer Y2-02: DS2-2 arriving, rope terminates · STR-01 6 ft straight down DS3-2 passes this column with no Wye (rope only).
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Before it flies ☐ every label reads IN toward the rack feeder, OUT away from it ☐ barrel on every rope joint, no bare NL4s ☐ Wye input tail is the only male end at a column ☐ rings + safeties on every pick (RING-01) ☐ run test lit from the rack before trim
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US · US WIRE ROPE

Upstage wire rope, 3 runs x 2 pieces, pylon arms TOP / MID / LOW



1 · What plugs in from the rack (one feeder per run, IN end of piece 1)

Run	Where	Rack port	Feeder cable	Controller	px	sACN
US4	TOP arm	NL4-2	NL4-2 single, 16/3 NL4: 3x 20 ft + 1x 10 ft + barrels (70 ft) arrives at the TOP arm	CTRL B out 2 192.168.41.42	307	58 to 59
US5	MID arm	NL8-2 a	NL8-2 50 ft + 10 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 1 (8 ft tail) arrives at the MID arm (8 ft tail up)	CTRL B out 3 192.168.41.42	307	60 to 61
US6	LOW arm	NL8-2 b	NL8-2 50 ft + 10 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 2 (2 ft tail) arrives at the LOW arm (at the splitter)	CTRL B out 4 192.168.41.42	307	62 to 63

2 · Pieces in hang order (label on the rope = BBDB name + IN / OUT). Every rope joint = NL4MMX barrel.

Label	Cut / pixels	IN end lands at	OUT end lands at
BBDB US4-1 US4 piece 1 of 2	28'4" 173 px · 58.1 to 59.9	IN RACK FEEDER NL4-2 (barrel to the feeder NL4)	OUT NJCT 3 (USP, scenic truss) USWR-NJCT3 · 3fer Y3-01
BBDB US4-2 US4 piece 2 of 2	21'10" 134 px · 59.10 to 59.411	IN NJCT 3 (USP, scenic truss) USWR-NJCT3 · 3fer Y3-01 leaving side	OUT NJCT 4 (US end, scenic truss) USWR-NJCT4 · 2fer Y2-01
BBDB US5-1 US5 piece 1 of 2	28'4" 173 px · 60.1 to 61.9	IN RACK FEEDER NL8-2 a (barrel to the feeder NL4)	OUT NJCT 3 (USP, scenic truss) USWR-NJCT3 · 3fer Y3-02
BBDB US5-2 US5 piece 2 of 2	21'10" 134 px · 61.10 to 61.411	IN NJCT 3 (USP, scenic truss) USWR-NJCT3 · 3fer Y3-02 leaving side	OUT NJCT 4 (US end, scenic truss) USWR-NJCT4 · 2fer Y2-02
BBDB US6-1 US6 piece 1 of 2	28'4" 173 px · 62.1 to 63.9	IN RACK FEEDER NL8-2 b (barrel to the feeder NL4)	OUT NJCT 3 (USP, scenic truss) USWR-NJCT3 · 2fer Y2-03
BBDB US6-2 US6 piece 2 of 2	21'10" 134 px · 63.10 to 63.411	IN NJCT 3 (USP, scenic truss) USWR-NJCT3 · 2fer Y2-03 leaving side	OUT NJCT 4 (US end, scenic truss)

3 · Injector columns on this section (power only; see KG3-BEA-PWR-01 for lengths)

PWR-NJCT 3 USWR-NJCT3 USP split · mid span · top rope 3'5" below the pickup · fed by LMG retractor, box feed 10 ft F to F 3fer Y3-01: US4-1 arriving, US4-2 leaving · JMP-01 20 in jumper down to the next Wye 3fer Y3-02: US5-1 arriving, US5-2 leaving · JMP-02 20 in jumper down to the next Wye 2fer Y2-03: US6-1 arriving, US6-2 leaving	PWR-NJCT 4 USWR-NJCT4 US end · ropes terminate · top rope 3'5" below the pickup · fed by LMG retractor, box feed 10 ft F to F 2fer Y2-01: US4-2 arriving, rope terminates · JMP-01 20 in jumper down to the next Wye 2fer Y2-02: US5-2 arriving, rope terminates · STR-01 6 ft straight down US6-2 passes this column with no Wye (rope only).
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Before it flies ☐ every label reads IN toward the rack feeder, OUT away from it ☐ barrel on every rope joint, no bare NL4s ☐ Wye input tail is the only male end at a column ☐ rings + safeties on every pick (RING-01) ☐ run test lit from the rack before trim
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AUD · DS ROPE 1 (AUDIENCE PICKUPS)

Audience ropes on chain motors AP1 / AP2 / AP3, 2 runs x 3 pieces

AUD

1 · What plugs in from the rack (one feeder per run, IN end of piece 1)						
Run	Where	Rack port	Feeder cable	Controller	px	sACN
AUD1	upper rope	NL8-5 a	NL8-5 50 ft + 25 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 1 (8 ft tail) arrives at the AUD1 via the 10 ft NL4 jumper	CTRL A out 4 192.168.41.41	568	50 to 53
AUD2	lower rope	NL8-5 b	NL8-5 50 ft + 25 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 2 (2 ft tail) arrives at the AUD2 at the splitter	CTRL B out 1 192.168.41.42	575	54 to 57

2 · Pieces in hang order (label on the rope = BBDB name + IN / OUT). Every rope joint = NL4MMX barrel.			
Label	Cut / pixels	IN end lands at	OUT end lands at
BBDB AUD1-1 AUD1 piece 1 of 3	26'2" 160 px · 50.1 to 50.480	IN RACK FEEDER NL8-5 a (barrel to the feeder NL4)	OUT NJCT 5 (AP1 motor) DS1-NJCT5 · 3fer Y3-01
BBDB AUD1-2 AUD1 piece 2 of 3	33'4" 204 px · 50.481 to 52.72	IN NJCT 5 (AP1 motor) DS1-NJCT5 · 3fer Y3-01 leaving side	OUT NJCT 6 (AP2 motor) DS1-NJCT6 · 3fer Y3-01
BBDB AUD1-3 AUD1 piece 3 of 3	33'5" 204 px · 52.73 to 53.174	IN NJCT 6 (AP2 motor) DS1-NJCT6 · 3fer Y3-01 leaving side	OUT NJCT 7 (AP3 motor) DS1-NJCT7 · 2fer Y2-01
BBDB AUD2-1 AUD2 piece 1 of 3	27'2" 166 px · 54.1 to 54.498	IN RACK FEEDER NL8-5 b (barrel to the feeder NL4)	OUT NJCT 5 (AP1 motor) DS1-NJCT5 · 2fer Y2-02
BBDB AUD2-2 AUD2 piece 2 of 3	33'7" 205 px · 54.499 to 56.93	IN NJCT 5 (AP1 motor) DS1-NJCT5 · 2fer Y2-02 leaving side	OUT NJCT 6 (AP2 motor) DS1-NJCT6 · 2fer Y2-02
BBDB AUD2-3 AUD2 piece 3 of 3	33'5" 204 px · 56.94 to 57.195	IN NJCT 6 (AP2 motor) DS1-NJCT6 · 2fer Y2-02 leaving side	OUT NJCT 7 (AP3 motor)

3 · Injector columns on this section (power only; see KG3-BEA-PWR-01 for lengths)		
PWR-NJCT 5 · AP1 DS1-NJCT5 Audience Pickup 1 · mid span · top rope 3'5" below the pickup · fed by KG3 fixed drop, 50 ft feed 3fer Y3-01: AUD1-1 arriving, AUD1-2 leaving · JMP-01 64 in jumper down to the next Wye 2fer Y2-02: AUD2-1 arriving, AUD2-2 leaving	PWR-NJCT 6 · AP2 DS1-NJCT6 Audience Pickup 2 · mid span · top rope 3'5" below the pickup · fed by KG3 fixed drop, 50 ft feed 3fer Y3-01: AUD1-2 arriving, AUD1-3 leaving · JMP-01 104 in jumper down to the next Wye 2fer Y2-02: AUD2-2 arriving, AUD2-3 leaving	PWR-NJCT 7 · AP3 DS1-NJCT7 Audience Pickup 3 · ropes terminate · top rope 3'5" below the pickup · fed by KG3 fixed drop, 50 ft feed 2fer Y2-01: AUD1-3 arriving, rope terminates · STR-01 15 ft straight down AUD2-3 passes this column with no Wye (rope only).

Before it flies ☐ every label reads IN toward the rack feeder, OUT away from it ☐ barrel on every rope joint, no bare NL4s ☐ Wye input tail is the only male end at a column ☐ rings + safeties on every pick (RING-01) ☐ run test lit from the rack before trim
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USR1 · US 1 RISER

Upstage riser 1, 3 single-piece runs, no injector (rack power only)

USR1

1 · What plugs in from the rack (one feeder per run, IN end of piece 1)						
Run	Where	Rack port	Feeder cable	Controller	px	sACN
USR1-1	TOP arm	NL4-3	NL4-3 single, 16/3 NL4: 3x 20 ft + 1x 10 ft + barrels (70 ft) arrives at the TOP arm	CTRL C out 1 192.168.41.43	98	64
USR1-2	MID arm	NL8-3 a	NL8-3 50 ft + 10 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 1 (8 ft tail) arrives at the MID arm (8 ft tail up)	CTRL C out 2 192.168.41.43	98	65
USR1-3	LOW arm	NL8-3 b	NL8-3 50 ft + 10 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 2 (2 ft tail) arrives at the LOW arm (at the splitter)	CTRL C out 3 192.168.41.43	98	66

2 · Pieces in hang order (label on the rope = BBDB name + IN / OUT). Every rope joint = NL4MMX barrel.			
Label	Cut / pixels	IN end lands at	OUT end lands at
BBDB USR1-1 USR1-1 piece 1 of 1	16'0" 98 px · 64.1 to 64.294	IN RACK FEEDER NL4-3 (barrel to the feeder NL4)	OUT far end (no injector)
BBDB USR1-2 USR1-2 piece 1 of 1	16'0" 98 px · 65.1 to 65.294	IN RACK FEEDER NL8-3 a (barrel to the feeder NL4)	OUT far end (no injector)
BBDB USR1-3 USR1-3 piece 1 of 1	16'0" 98 px · 66.1 to 66.294	IN RACK FEEDER NL8-3 b (barrel to the feeder NL4)	OUT far end (no injector)

3 · Power
No injector column on the risers: each run is under 17 ft and is powered from the rack through its own feeder. Nothing else to plug in.

Before it flies ☐ every label reads IN toward the rack feeder, OUT away from it ☐ barrel on every rope joint, no bare NL4s ☐ Wye input tail is the only male end at a column ☐ rings + safeties on every pick (RING-01) ☐ run test lit from the rack before trim
--



USR2 · US 2 RISER

Upstage riser 2, 3 single-piece runs, no injector (rack power only)



1 · What plugs in from the rack (one feeder per run, IN end of piece 1)

Run	Where	Rack port	Feeder cable	Controller	px	sACN
USR2-1	TOP arm	NL4-4	NL4-4 single, 16/3 NL4: 3x 20 ft + 1x 10 ft + barrels (70 ft) arrives at the TOP arm	CTRL D out 1 192.168.41.44	100	67
USR2-2	MID arm	NL8-4 a	NL8-4 50 ft + 10 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 1 (8 ft tail) arrives at the MID arm (8 ft tail up)	CTRL D out 2 192.168.41.44	100	68
USR2-3	LOW arm	NL8-4 b	NL8-4 50 ft + 10 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 2 (2 ft tail) arrives at the LOW arm (at the splitter)	CTRL D out 3 192.168.41.44	100	69

2 · Pieces in hang order (label on the rope = BBDB name + IN / OUT). Every rope joint = NL4MMX barrel.

Label	Cut / pixels	IN end lands at	OUT end lands at
BBDB USR2-1 USR2-1 piece 1 of 1	16'4" 100 px · 67.1 to 67.300	IN RACK FEEDER NL4-4 (barrel to the feeder NL4)	OUT far end (no injector)
BBDB USR2-2 USR2-2 piece 1 of 1	16'4" 100 px · 68.1 to 68.300	IN RACK FEEDER NL8-4 a (barrel to the feeder NL4)	OUT far end (no injector)
BBDB USR2-3 USR2-3 piece 1 of 1	16'4" 100 px · 69.1 to 69.300	IN RACK FEEDER NL8-4 b (barrel to the feeder NL4)	OUT far end (no injector)

3 · Power

No injector column on the risers: each run is under 17 ft and is powered from the rack through its own feeder. Nothing else to plug in.

Before it flies ☐ every label reads IN toward the rack feeder, OUT away from it ☐ barrel on every rope joint, no bare NL4s ☐ Wye input tail is the only male end at a column ☐ rings + safeties on every pick (RING-01) ☐ run test lit from the rack before trim



RACK · PXL CTRL RACK

SKB 4U rolling rack, OFFSTAGE (~30 ft ground run). Lid marked INPUT / OUTPUT faces the cable; lid marked ADVATEK ACCESS faces the controllers.



1 · Inputs (production supplies both)

Jack	What	Note
IN · powerCON TRUE1	120 V AC, one 20 A circuit	2x Mean Well UHP-1500-24 inside, about 12.9 A at full white. TRUE1 THRU is a pass-through only.
IN · etherCON x2	sACN from the console network	Controllers CTRL A to D = 192.168.41.41 to .44, /24. Spare CTRL E (boxed) = .45. Universes 41 to 69 live.

2 · Outputs (14 circuits on 5 NL8 + 4 NL4). NL8 = Pixel Data + Power Cable, 2 circuits (a / b).

Port	Run	Controller	IP	px	sACN	Cable on this port
OUT NL8-1 a	DS2	CTRL A out 2	192.168.41.41	369	44 to 46	NL8-1 50 ft + 10 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 1 (8 ft tail)
OUT NL8-1 b	DS3	CTRL A out 3	192.168.41.41	369	47 to 49	NL8-1 50 ft + 10 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 2 (2 ft tail)
OUT NL8-2 a	US5	CTRL B out 3	192.168.41.42	307	60 to 61	NL8-2 50 ft + 10 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 1 (8 ft tail)
OUT NL8-2 b	US6	CTRL B out 4	192.168.41.42	307	62 to 63	NL8-2 50 ft + 10 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 2 (2 ft tail)
OUT NL8-3 a	USR1-2	CTRL C out 2	192.168.41.43	98	65	NL8-3 50 ft + 10 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 1 (8 ft tail)
OUT NL8-3 b	USR1-3	CTRL C out 3	192.168.41.43	98	66	NL8-3 50 ft + 10 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 2 (2 ft tail)
OUT NL8-4 a	USR2-2	CTRL D out 2	192.168.41.44	100	68	NL8-4 50 ft + 10 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 1 (8 ft tail)
OUT NL8-4 b	USR2-3	CTRL D out 3	192.168.41.44	100	69	NL8-4 50 ft + 10 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 2 (2 ft tail)
OUT NL8-5 a	AUD1	CTRL A out 4	192.168.41.41	568	50 to 53	NL8-5 50 ft + 25 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 1 (8 ft tail)
OUT NL8-5 b	AUD2	CTRL B out 1	192.168.41.42	575	54 to 57	NL8-5 50 ft + 25 ft NL8 (16/6) + NL8MMX barrel, splitter OUTPUT 2 (2 ft tail)
OUT NL4-1	DS1	CTRL A out 1	192.168.41.41	369	41 to 43	NL4-1 single, 16/3 NL4: 3x 20 ft + 1x 10 ft + barrels (70 ft)
OUT NL4-2	US4	CTRL B out 2	192.168.41.42	307	58 to 59	NL4-2 single, 16/3 NL4: 3x 20 ft + 1x 10 ft + barrels (70 ft)
OUT NL4-3	USR1-1	CTRL C out 1	192.168.41.43	98	64	NL4-3 single, 16/3 NL4: 3x 20 ft + 1x 10 ft + barrels (70 ft)
OUT NL4-4	USR2-1	CTRL D out 1	192.168.41.44	100	67	NL4-4 single, 16/3 NL4: 3x 20 ft + 1x 10 ft + barrels (70 ft)

Before power-up ☐ all 9 output cables landed on the port that matches the RUN + TOP tape on the cable ☐ splitters: OUTPUT 1 up, OUTPUT 2 at the arm ☐ network cable in, link lights on all 4 Advateks ☐ TRUE1 last ☐ run test from the rack (bea.local) before anything leaves the deck



Pylon PXL CTRL rack · bea.kg3.io/chance/rack · Beabadoobie 2026 Headline Tour · September 17, 2026

Front panel: which port is which



KG3 · Beabadoobie 2026 · Rack outputs and controllers · page 1 of 4

Live: bea.kg3.io/chance/rack (PIN)



POWER INJECTION MAP

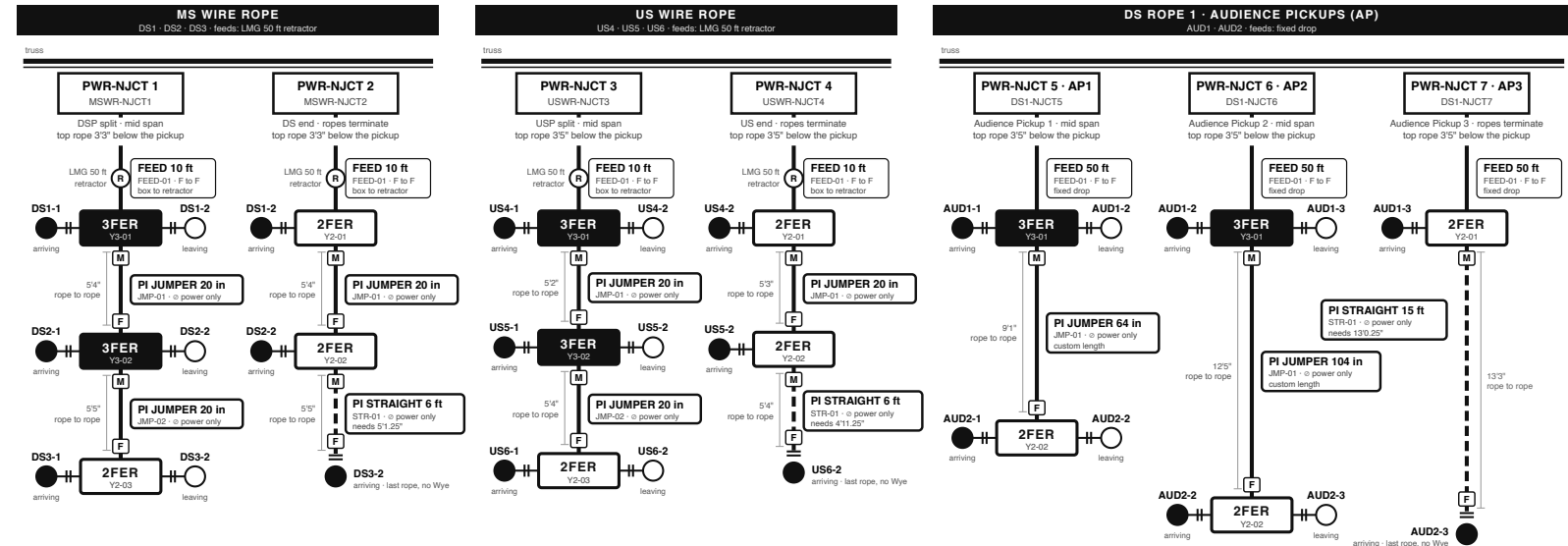
every 3fer, 2fer and PI cable (jumper or straight) with its length · power only, no data on this sheet · rope spacing drawn to scale

KG3-BEA-PWR-01 R3 · September 17, 2026
Beabadoobee 2026 Headline Tour · 7 PWR-NJCT columns · 12/3 SOOW throughout

3FER Y-3 molded Wye, 45 in: 1 in, 3 out (arriving rope + leaving rope + through to the run below)

2FER Y-2 molded Wye, 45 in: 1 in, 2 out · rope end arriving from the pylon side · rope start leaving · NL4MMX barrel at every rope lead (28)

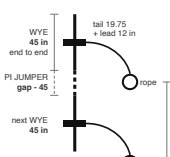
PI Power-Inject cable : 12/3 NL4, ALWAYS male to female, male end up toward the source · yellow data conductor not landed at one end: power only · R LMG's 50 ft retractor in the feed



PIECES ON THE RIG

Piece		In use	Spare	Where
3FER Y-3	6	3	NJCT 1, 3 (two) · 5, 6 (one)	
2FER Y-2	9	3	NJCT 2, 4 (two) · rest (one)	
PI jumper 20 in	6	3	NJCT 1, 3 (two) · 2, 4 (one)	
PI jumper 64 in	1	0	AP1 · 15 ft spare covers it	
PI jumper 104 in	1	0	AP2 · 15 ft spare covers it	
PI straight 6 ft	2	3	NJCT 2, 4 to the last rope	
PI straight 15 ft	1	1	AP3 to AUD2-3 · new build	
Feeder 10 ft (F to F)	4	2	NJCT 1 to 4, box to retractor	
Feeder 50 ft (F to F)	3	0	AP1, AP2, AP3 fixed drops	

JUMPER MATH: WHY THE JUMPER IS SHORTER THAN THE ROPE GAP



The molded Wye hangs inline: 45 in end to end with its NL4s on (Kenny measured, Sep 1). Each Wye sits the same height above its own rope, so every rope gap = one Wye + one jumper. PI jumper = rope gap minus 45 in. The 64 in and 104 in land exactly on it.

Column	Rope gap	Need	Built	Slack
NJCT 1	5'4" = 64 in	19 in	20 in	+1
NJCT 1	5'5" = 65 in	20 in	20 in	0
NJCT 2	5'4" = 64 in	19 in	20 in	+1
NJCT 3	5'2" = 62 in	17 in	20 in	+3
NJCT 3	5'4" = 64 in	19 in	20 in	+1
NJCT 4	5'3" = 63 in	18 in	20 in	+2
AP1	9'1" = 109 in	64 in	64 in	0
AP2	12'5" = 149 in	104 in	104 in	0

Zero slack is inside the 0 to 3 in rule. The top Wye floats on the feeder: hang it an inch or two low and the whole column gains that margin.

HOW IT GOES TOGETHER

- Chain runs top down: box on the truss, feeder, first Wye at the top rope, PI jumper, next Wye. One injector feeds every rope in its column.
- 3FER where a rope joins mid span AND a run hangs below it. 2FER at the bottom rope of a mid span column and at every upper rope of an end column. The last rope of an end column gets a PI STRAIGHT, no Wye.
- PI = Power-Inject (Kenny, Sep 17): every jumper and straight here. 12/3, ALWAYS male to female, male end up. · Power only: the yellow is not landed at one end, because the Wyes tie pin 1 minus across all legs.
- Female to female is NOT a PI cable. The 10 ft and 5 ft 12/3 NL4s stay female to female for SPI + power. Never put one between two Wyes: it would short one run's data to the next.
- Feeders are female to female (box panel connector to the male Wye input). Pin 1 minus is empty inside the box, so a feeder bridges nothing. Barrel at every rope lead.

WHERE EACH COLUMN IS (JOSH SLADE SWR)

KG3 ID	Josh's tab	Position
MSWR-NJCT1	MS / Winch 1	centerline, 19'3" US
MSWR-NJCT2	MS / Winch 2	29'10" SL, 12'11" US
USWR-NJCT3	US / Winch 1	8'5" SL, 27'7" US
USWR-NJCT4	US / Winch 2	30'4" SL, 24'3" US
DS1-NJCT5 AP1	DS ROPE 1 / W1	20'11" SR, DS motor line
DS1-NJCT6 AP2	DS ROPE 1 / W2	15'2" SR, 32'10" DS of AP1
DS1-NJCT7 AP3	DS ROPE 1 / W3	9'7" SR, 65'7" DS of AP1

AP = Audience Pickup (Sheet 4.11, Audience Pickup 1, 2, 3). USR1 and USR2 have no injector: rack led only.



Patch Elevation

BEABADOOBEE 2026 · THE RUNS AS THEY HANG · KG3-26-BEA

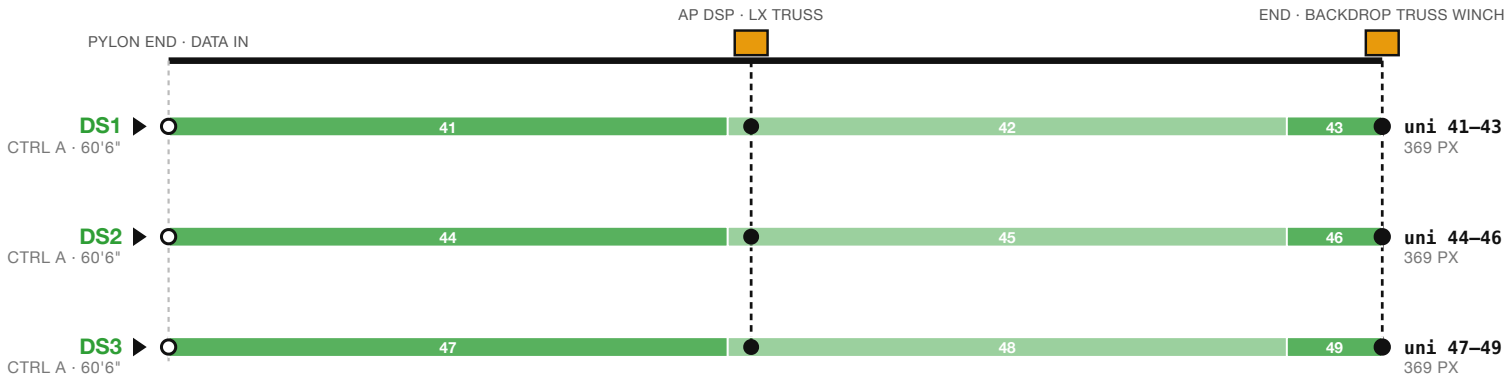
sACN · Universe 41–85

live 41–69 · CTRL E spare 70–85

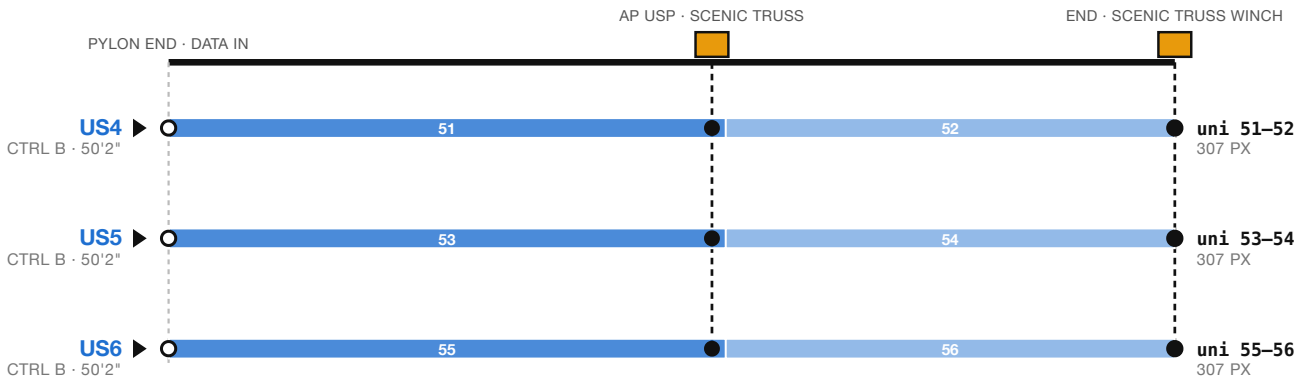
true scale · 20 px/m · RGB

STAGE GROUPS · EVERY ROPE AT TRUE LENGTH AND TRUE 5'6" STACKING, SHADED BANDS ARE UNIVERSES

CABLES DS · 3 ROPES · INJECTORS FLOWN AT DSP + BACKDROP TRUSS



CABLES US · 3 ROPES · INJECTORS FLOWN AT USP + SCENIC TRUSS



What this sheet shows that the patch table cannot. Every tee tap sits exactly where two rope segments meet, because the injection columns ARE the segment joins. Data enters each rope once at the pylon end and runs the whole length through the rope, so the universes climb left to right and pass straight through every tee. Nothing restarts at a join, and no universe boundary lines up with a physical join.



Patch Elevation

BEABADOOBEE 2026 · UPSTAGE RIGHT + AUDIENCE · KG3-26-BEA

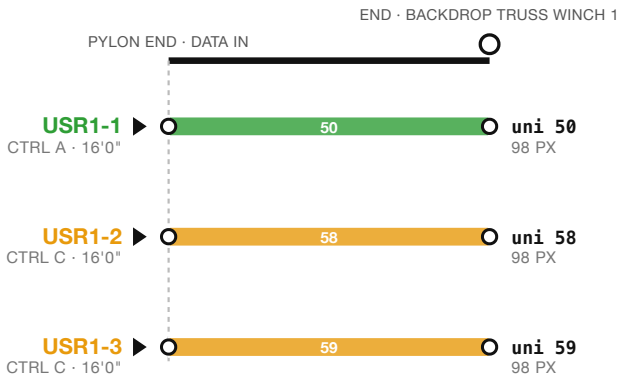
sACN · Universe 41–85

live 41–69 · CTRL E spare 70–85

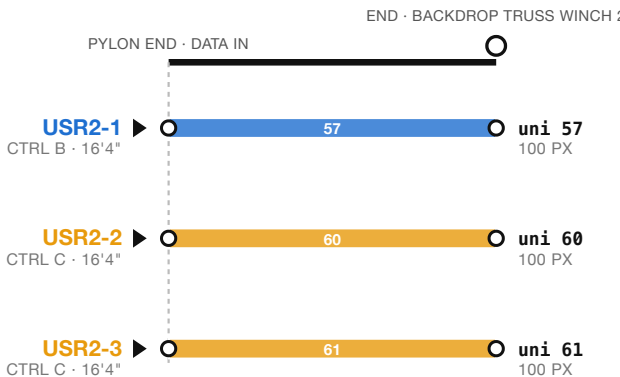
true scale · 20 px/m · RGB

UPSTAGE RIGHT CABLES AND THE AUDIENCE ROPES · SAME SCALE AS PAGE 1

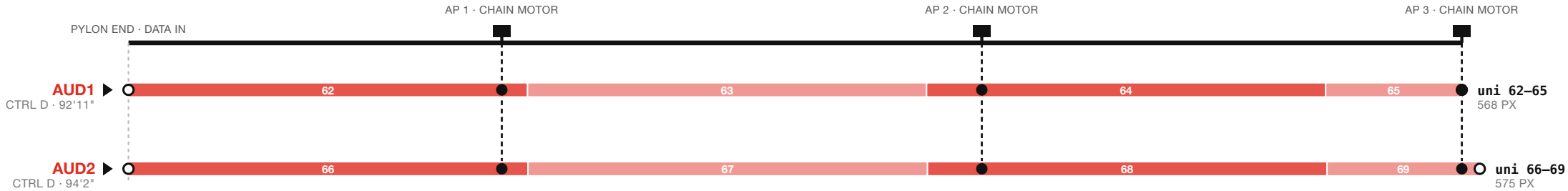
CABLES USR1 · 3 SEPARATE CABLES · SINGLE-END FED · NO INJECTOR



CABLES USR2 · 3 SEPARATE CABLES · SINGLE-END FED · NO INJECTOR



AUDIENCE CABLES · 2 ROPES · INJECTORS AT AP 1 / 2 / 3 ON CHAIN MOTORS, NO WINCH



20 FT · HORIZONTAL AND VERTICAL AT THE SAME SCALE

CTRL A CTRL B CTRL C CTRL D PWR-NJCT injector Chain motor Rigging ring / dead pickup Tee tap · power injection 12/3 drop · 3fer / 2fer chain Data in from pylon

Why the top cable of USR1 and USR2 is a different colour. USR1-1 is on CTRL A and USR2-1 is on CTRL B, while the four cables below them are on CTRL C. Those top cables are the NL4 singles; the lower pairs each share one NL8 trunk, and an NL8 carries two circuits that must be fed from one controller. The singles are the flex that let four boxes cover fourteen outputs.



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LED SEGMENT CHECKLIST

KG3-BEA-CHK-01 · Beabadoobee 2026 Headline Tour · 24 show pieces + 9 spares · September 2, 2026

Cut LumiRope 360 22 mm black, 20 px/m, cut points every 50 mm. Cut = drawing length rounded UP to the next 50 mm. Never round down. Show pieces come out of 10 m and 11 m stock; USR out of 5 m.	Leads · 12 in finished Leave 12 in of lead measured from the rope end at every column junction (factory lead is about 1 m, so about 27 in comes off). Measure from the rope, mark, then cut. Rack-fed IN ends and USR far ends: length per Kenny.	NL4 gender Every rope points the same way: IN end = FEMALE, OUT end = MALE . The end arriving at a column is male (18), the end leaving is female (10). No male to male anywhere.	Pin map (NL4 SPI) 1+ RED = V+ 24V 1- YELLOW = SPI data 2- BLACK = GND 2+ empty Label = band template, IN and OUT on each piece. Test = power up, full white, count pixels.
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CUT	LEADS	LABEL	TEST	PIECE	DRAWING	CUT / PX	CONTROLLER	UNIVERSE.CH	ENDS	INIT / DATE
DS wire ropes (MS WIRE ROPE) · 6 pieces										
☐	☐	☐	☐	DS1-1 seg 1 of 2 · DS1	30'0" 9.14 m	9,150 mm 183 px	CTRL A · out 1 NL4 single	41.1 to 42.39 run 41-43	IN F rack feeder OUT M NJCT 1 (DSP, LX truss) · 12 in	
☐	☐	☐	☐	DS1-2 seg 2 of 2 · DS1	30'6" 9.30 m	9,300 mm 186 px	CTRL A · out 1 NL4 single	42.40 to 43.87 run 41-43	IN F NJCT 1 (DSP, LX truss) · 12 in OUT M NJCT 2 (DS end, backdrop truss) · 12 in	
☐	☐	☐	☐	DS2-1 seg 1 of 2 · DS2	30'0" 9.14 m	9,150 mm 183 px	CTRL A · out 2 NL8 a	44.1 to 45.39 run 44-46	IN F rack feeder OUT M NJCT 1 (DSP, LX truss) · 12 in	
☐	☐	☐	☐	DS2-2 seg 2 of 2 · DS2	30'6" 9.30 m	9,300 mm 186 px	CTRL A · out 2 NL8 a	45.40 to 46.87 run 44-46	IN F NJCT 1 (DSP, LX truss) · 12 in OUT M NJCT 2 (DS end, backdrop truss) · 12 in	
☐	☐	☐	☐	DS3-1 seg 1 of 2 · DS3	30'0" 9.14 m	9,150 mm 183 px	CTRL A · out 3 NL8 b	47.1 to 48.39 run 47-49	IN F rack feeder OUT M NJCT 1 (DSP, LX truss) · 12 in	
☐	☐	☐	☐	DS3-2 seg 2 of 2 · DS3	30'6" 9.30 m	9,300 mm 186 px	CTRL A · out 3 NL8 b	48.40 to 49.87 run 47-49	IN F NJCT 1 (DSP, LX truss) · 12 in OUT M NJCT 2 (DS end, backdrop truss) · 12 in	
US wire ropes (US WIRE ROPE) · 6 pieces										
☐	☐	☐	☐	US4-1 seg 1 of 2 · US4	28'4" 8.64 m	8,650 mm 173 px	CTRL B · out 2 NL4 single	58.1 to 59.9 run 58-59	IN F rack feeder OUT M NJCT 3 (USP, scenic truss) · 12 in	
☐	☐	☐	☐	US4-2 seg 2 of 2 · US4	21'10" 6.65 m	6,700 mm 134 px	CTRL B · out 2 NL4 single	59.10 to 59.411 run 58-59	IN F NJCT 3 (USP, scenic truss) · 12 in OUT M NJCT 4 (US end, scenic truss) · 12 in	
☐	☐	☐	☐	US5-1 seg 1 of 2 · US5	28'4" 8.64 m	8,650 mm 173 px	CTRL B · out 3 NL8 a	60.1 to 61.9 run 60-61	IN F rack feeder OUT M NJCT 3 (USP, scenic truss) · 12 in	
☐	☐	☐	☐	US5-2 seg 2 of 2 · US5	21'10" 6.65 m	6,700 mm 134 px	CTRL B · out 3 NL8 a	61.10 to 61.411 run 60-61	IN F NJCT 3 (USP, scenic truss) · 12 in OUT M NJCT 4 (US end, scenic truss) · 12 in	
☐	☐	☐	☐	US6-1 seg 1 of 2 · US6	28'4" 8.64 m	8,650 mm 173 px	CTRL B · out 4 NL8 b	62.1 to 63.9 run 62-63	IN F rack feeder OUT M NJCT 3 (USP, scenic truss) · 12 in	
☐	☐	☐	☐	US6-2 seg 2 of 2 · US6	21'10" 6.65 m	6,700 mm 134 px	CTRL B · out 4 NL8 b	63.10 to 63.411 run 62-63	IN F NJCT 3 (USP, scenic truss) · 12 in OUT M NJCT 4 (US end, scenic truss) · 12 in	
USR1 (US 1) · 3 pieces										
☐	☐	☐	☐	USR1-1 seg 1 of 1 · USR1-1	16'0" 4.88 m	4,900 mm 98 px	CTRL C · out 1 NL4 single	64.1 to 64.294 run 64-64	IN F rack feeder OUT M far end (no injector)	
☐	☐	☐	☐	USR1-2 seg 1 of 1 · USR1-2	16'0" 4.88 m	4,900 mm 98 px	CTRL C · out 2 NL8 a	65.1 to 65.294 run 65-65	IN F rack feeder OUT M far end (no injector)	
☐	☐	☐	☐	USR1-3 seg 1 of 1 · USR1-3	16'0" 4.88 m	4,900 mm 98 px	CTRL C · out 3 NL8 b	66.1 to 66.294 run 66-66	IN F rack feeder OUT M far end (no injector)	
USR2 (US 2) · 3 pieces										

CUT	LEADS	LABEL	TEST	PIECE	DRAWING	CUT / PX	CONTROLLER	UNIVERSE.CH	ENDS	INIT / DATE
☐	☐	☐	☐	USR2-1 seg 1 of 1 · USR2-1	16'4" 4.98 m	5,000 mm 100 px	CTRL D · out 1 NL4 single	67.1 to 67.300 run 67-67	IN F rack feeder OUT M far end (no injector)	
☐	☐	☐	☐	USR2-2 seg 1 of 1 · USR2-2	16'4" 4.98 m	5,000 mm 100 px	CTRL D · out 2 NL8 a	68.1 to 68.300 run 68-68	IN F rack feeder OUT M far end (no injector)	
☐	☐	☐	☐	USR2-3 seg 1 of 1 · USR2-3	16'4" 4.98 m	5,000 mm 100 px	CTRL D · out 3 NL8 b	69.1 to 69.300 run 69-69	IN F rack feeder OUT M far end (no injector)	
Audience (DS ROPE 1) · 6 pieces										
☐	☐	☐	☐	AUD1-1 seg 1 of 3 · AUD1	26'2" 7.98 m	8,000 mm 160 px	CTRL A · out 4 NL8 a	50.1 to 50.480 run 50-53	IN F rack feeder OUT M NJCT 5 (AP1 motor) · 12 in	
☐	☐	☐	☐	AUD1-2 seg 2 of 3 · AUD1	33'4" 10.16 m	10,200 mm 204 px	CTRL A · out 4 NL8 a	50.481 to 52.72 run 50-53	IN F NJCT 5 (AP1 motor) · 12 in OUT M NJCT 6 (AP2 motor) · 12 in	
☐	☐	☐	☐	AUD1-3 seg 3 of 3 · AUD1	33'5" 10.19 m	10,200 mm 204 px	CTRL A · out 4 NL8 a	52.73 to 53.174 run 50-53	IN F NJCT 6 (AP2 motor) · 12 in OUT M NJCT 7 (AP3 motor) · 12 in	
☐	☐	☐	☐	AUD2-1 seg 1 of 3 · AUD2	27'2" 8.28 m	8,300 mm 166 px	CTRL B · out 1 NL8 b	54.1 to 54.498 run 54-57	IN F rack feeder OUT M NJCT 5 (AP1 motor) · 12 in	
☐	☐	☐	☐	AUD2-2 seg 2 of 3 · AUD2	33'7" 10.24 m	10,250 mm 205 px	CTRL B · out 1 NL8 b	54.499 to 56.93 run 54-57	IN F NJCT 5 (AP1 motor) · 12 in OUT M NJCT 6 (AP2 motor) · 12 in	
☐	☐	☐	☐	AUD2-3 seg 3 of 3 · AUD2	33'5" 10.19 m	10,200 mm 204 px	CTRL B · out 1 NL8 b	56.94 to 57.195 run 54-57	IN F NJCT 6 (AP2 motor) · 12 in OUT M NJCT 7 (AP3 motor) · 12 in	
Spares (stock lengths, do not cut) · 9 pieces										
☐	☐	☐	☐	SPARE-5M-1 any 5 m	5m stock 5.00 m	5,000 mm 100 px	<i>stock spare · label + test only</i>			
☐	☐	☐	☐	SPARE-5M-2 any 5 m	5m stock 5.00 m	5,000 mm 100 px	<i>stock spare · label + test only</i>			
☐	☐	☐	☐	SPARE-5M-3 any 5 m	5m stock 5.00 m	5,000 mm 100 px	<i>stock spare · label + test only</i>			
☐	☐	☐	☐	SPARE-10M-1 any 10 m	10m stock 10.00 m	10,000 mm 200 px	<i>stock spare · label + test only</i>			
☐	☐	☐	☐	SPARE-10M-2 any 10 m	10m stock 10.00 m	10,000 mm 200 px	<i>stock spare · label + test only</i>			
☐	☐	☐	☐	SPARE-10M-3 any 10 m	10m stock 10.00 m	10,000 mm 200 px	<i>stock spare · label + test only</i>			
☐	☐	☐	☐	SPARE-11M-1 any 11 m	11m stock 11.00 m	11,000 mm 220 px	<i>stock spare · label + test only</i>			
☐	☐	☐	☐	SPARE-11M-2 any 11 m	11m stock 11.00 m	11,000 mm 220 px	<i>stock spare · label + test only</i>			
☐	☐	☐	☐	SPARE-11M-3 any 11 m	11m stock 11.00 m	11,000 mm 220 px	<i>stock spare · label + test only</i>			

KG3 · Beabadoobee 2026 · LED Segment Checklist · live check-off at bea.kg3.io/chance

Patch: sACN 41-69 · 3,765 px · lengths Sheet 4.11 V2.2 · pixels = ceil(m × 20)

C CONTROL PACK

Universes, channels, controller and port for every run, pixel counts, power, IP addresses.

- NEW · Run summary: controller, port, pixels, universes, power, injectors
- KG3-BEA-PATCH-01 · Patch Map
- KG3-BEA-PATCH-02 · Patch by Segment
- KG3-BEA-PATCH-03 · Patch by Controller
- KG3-BEA-DM-01 · LD Programmer Data Map, per segment
- KG3-BEA-DM-02 · LD Programmer Data Map, per section
- RACK · Rack Outputs and Controllers (ports, IPs, inside the rack, NL8 jack)
- RACK CARD · Rack card 4x6
- PIXEL COUNT · Pixel Count



Run summary

One line per run: patch, port, pixels, channels, universes, length, full-white power at 24 V, injector columns. Source: patch of record (segments.json), 23.04 W/m.

Run	Pieces	Controller	Rack port	IP	px	ch (RGB)	sACN	Lit length	W full white	A @ 24 V	Power injection
DS1	DS1-1, DS1-2	CTRL A out 1	NL4-1	192.168.41.41	369	1107	41 to 43	18.4 m	425 W	17.7 A	NJCT 1, 2
DS2	DS2-1, DS2-2	CTRL A out 2	NL8-1 a	192.168.41.41	369	1107	44 to 46	18.4 m	425 W	17.7 A	NJCT 1, 2
DS3	DS3-1, DS3-2	CTRL A out 3	NL8-1 b	192.168.41.41	369	1107	47 to 49	18.4 m	425 W	17.7 A	NJCT 1 (2 pass)
AUD1	AUD1-1, AUD1-2, AUD1-3	CTRL A out 4	NL8-5 a	192.168.41.41	568	1704	50 to 53	28.3 m	653 W	27.2 A	NJCT 5, 6, 7
AUD2	AUD2-1, AUD2-2, AUD2-3	CTRL B out 1	NL8-5 b	192.168.41.42	575	1725	54 to 57	28.7 m	661 W	27.6 A	NJCT 5, 6 (7 pass)
US4	US4-1, US4-2	CTRL B out 2	NL4-2	192.168.41.42	307	921	58 to 59	15.3 m	352 W	14.7 A	NJCT 3, 4
US5	US5-1, US5-2	CTRL B out 3	NL8-2 a	192.168.41.42	307	921	60 to 61	15.3 m	352 W	14.7 A	NJCT 3, 4
US6	US6-1, US6-2	CTRL B out 4	NL8-2 b	192.168.41.42	307	921	62 to 63	15.3 m	352 W	14.7 A	NJCT 3 (4 pass)
USR1-1	USR1-1	CTRL C out 1	NL4-3	192.168.41.43	98	294	64	4.9 m	112 W	4.7 A	rack only
USR1-2	USR1-2	CTRL C out 2	NL8-3 a	192.168.41.43	98	294	65	4.9 m	112 W	4.7 A	rack only
USR1-3	USR1-3	CTRL C out 3	NL8-3 b	192.168.41.43	98	294	66	4.9 m	112 W	4.7 A	rack only
USR2-1	USR2-1	CTRL D out 1	NL4-4	192.168.41.44	100	300	67	5.0 m	115 W	4.8 A	rack only
USR2-2	USR2-2	CTRL D out 2	NL8-4 a	192.168.41.44	100	300	68	5.0 m	115 W	4.8 A	rack only
USR2-3	USR2-3	CTRL D out 3	NL8-4 b	192.168.41.44	100	300	69	5.0 m	115 W	4.8 A	rack only
Total					3765	11295	41 to 69		4327 W	180 A	

Network. CTRL A .41, B .42, C .43, D .44, spare CTRL E .45 (boxed, holds 70 to 85). Gateway 192.168.41.1, /24. sACN E1.31, 170 px per universe, RGB, 20 px/m. Laptop on a static in 192.168.41.x to reach Advatek Assistant.

Rack power. 2x Mean Well UHP-1500-24 (3,000 W bus). Rack feeds the first piece of every run plus the whole of each riser run; the injectors carry the rest, so rack load is well under the bus. One TRUE1 circuit, about 12.9 A at 120 V.



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DMX PATCH MAP

SPEC # KG3-BEA-PATCH-01 · JOB: BEABADOOBEE 2026 HEADLINE TOUR · DATE: SEPTEMBER 1, 2026

sACN · Universe 41–85

live 41–69 · held 70–85 for the spare
192.168.41.41–.45 /24 · 4 in the rack + 1 spare
Sheet 4.11 V2.2 · 20 px/m · RGB

14

OUTPUTS

4

PXL-CTRL

3,765

PIXELS

11,295

DMX CHANNELS

29

LIVE UNIVERSES (41–69)

70–85

HELD FOR THE SPARE (CTRL E)

UNIVERSE MAP · BAR LENGTH IS TRUE TO PIXEL COUNT



CTRL A CTRL B CTRL C CTRL D ▶ Data in (lowest channel) ? Segment join · power injection only, data passes through

Alternating shade = one universe (170 px / 510 ch)

Read it this way. One bar = one controller output = one continuous pixel string. Every output starts on a fresh universe at channel 1, and no pixel is split across a universe boundary, so the last universe of each run is partly filled. Segment joins are power injection points only: they are **not** patched separately and never restart a universe.

PATCH BY OUTPUT

OUT	RUN	FEED	M	PX	CH	UNIVERSES	START	END
CTRL A · 41–53 · 4 OF 4 OUTPUTS USED								
1	DS1	NL4	18.44	369	1,107	41–43	41.1	43.87
2	DS2	NL8 a	18.44	369	1,107	44–46	44.1	46.87
3	DS3	NL8 b	18.44	369	1,107	47–49	47.1	49.87
4	AUD1	NL8 a	28.32	568	1,704	50–53	50.1	53.174
CTRL B · 54–63 · 4 OF 4 OUTPUTS USED								
1	AUD2	NL8 b	28.70	575	1,725	54–57	54.1	57.195
2	US4	NL4	15.29	307	921	58–59	58.1	59.411
3	US5	NL8 a	15.29	307	921	60–61	60.1	61.411
4	US6	NL8 b	15.29	307	921	62–63	62.1	63.411
CTRL C · 64–66 · 3 OF 4 OUTPUTS USED								
1	USR1-1	NL4	4.88	98	294	64	64.1	64.294
2	USR1-2	NL8 a	4.88	98	294	65	65.1	65.294
3	USR1-3	NL8 b	4.88	98	294	66	66.1	66.294
CTRL D · 67–69 · 3 OF 4 OUTPUTS USED								
1	USR2-1	NL4	4.98	100	300	67	67.1	67.300
2	USR2-2	NL8 a	4.98	100	300	68	68.1	68.300
3	USR2-3	NL8 b	4.98	100	300	69	69.1	69.300
RIG TOTAL		14 outputs	187.8	3,765	11,295	41–69	29 universes	

CONTROLLERS

CTRL	CONTENTS	OUTS	SPARE	PX	BLOCK	RACK W	IP
CTRL A	MS WIRE ROPE whole + DS ROPE 1 AUD1	4	0	1,675	41–53	407	192.168.41.41
CTRL B	DS ROPE 1 AUD2 + US WIRE ROPE whole	4	0	1,496	54–63	395	192.168.41.42
CTRL C	US 1 whole	3	1	294	64–66	337	192.168.41.43
CTRL D	US 2 whole	3	1	300	67–69	344	192.168.41.44
CTRL E	spare, carried for the road, not in the rack	0	4	–	70–85	–	192.168.41.45
TOTAL		14	2 + 4	3,765	41–85	1,483	

For LX. Our block is **Universe 41 through 85: 41–69** is the live patch across the four controllers in the rack, **70–85** is held for CTRL E, a spare 4-output controller carried for the road at 192.168.41.45. **Media server clear from 86 up.** Host addresses are our proposal; reassign if that range is spoken for.

Rack power. The pylon rack sources 1,483 W of the 4,326 W rig (34%) on a 3,000 W bus: 49% loaded. The 7 flown PWR-NJCT carry the rest on their own TRUE1 feeds. Rack W column above is the controller-to-first-injection share, not the run total.



SEGMENT REFERENCE

SPEC # KG3-BEA-PATCH-01 · BEABADOOBEE 2026 · TROUBLESHOOTING ONLY . PATCH IS PER OUTPUT, NOT PER SEGMENT

CHAINED RUNS · WHERE EACH SEGMENT LANDS

SEGMENT	LENGTH	PX	RUN PX	ADDRESS RANGE
DS1				
DS 1-1	30'0"	183	1–183	41.1 – 42.39
DS 1-2	30'6"	186	184–369	42.40 – 43.87
DS2				
DS 2-1	30'0"	183	1–183	44.1 – 45.39
DS 2-2	30'6"	186	184–369	45.40 – 46.87
DS3				
DS 3-1	30'0"	183	1–183	47.1 – 48.39
DS 3-2	30'6"	186	184–369	48.40 – 49.87
AUD1				
AUD 1-1	26'2"	160	1–160	50.1 – 50.480
AUD 1-2	33'4"	204	161–364	50.481 – 52.72
AUD 1-3	33'5"	204	365–568	52.73 – 53.174
AUD2				
AUD 2-1	27'2"	166	1–166	54.1 – 54.498
AUD 2-2	33'7"	205	167–371	54.499 – 56.93
AUD 2-3	33'5"	204	372–575	56.94 – 57.195
US4				
US 4-1	28'4"	173	1–173	58.1 – 59.9
US 4-2	21'10"	134	174–307	59.10 – 59.411
US5				
US 5-1	28'4"	173	1–173	60.1 – 61.9
US 5-2	21'10"	134	174–307	61.10 – 61.411
US6				
US 6-1	28'4"	173	1–173	62.1 – 63.9
US 6-2	21'10"	134	174–307	63.10 – 63.411

SINGLE-SEGMENT OUTPUTS

RUN	CTRL	LENGTH	PX	ADDRESS RANGE
USR1-1	CTRL C out 1	16'0"	98	64.1 – 64.294
USR1-2	CTRL C out 2	16'0"	98	65.1 – 65.294
USR1-3	CTRL C out 3	16'0"	98	66.1 – 66.294
USR2-1	CTRL D out 1	16'4"	100	67.1 – 67.300
USR2-2	CTRL D out 2	16'4"	100	68.1 – 68.300
USR2-3	CTRL D out 3	16'4"	100	69.1 – 69.300



PATCH BY SEGMENT

Patch is per OUTPUT, not per segment. Segment joins are power-injection points only: data runs straight through, so a universe may change mid-segment. Universe.channel below is where each segment's first and last pixel land.

CTRL	OUT	RUN	SEGMENT	SEG	LENGTH	M	PX	RUN PX	UNIVERSE.CH START – END	FEED
CTRL A · 192.168.41.41 · UNIVERSES 41–53 · 1675 PX										
A	1	DS1	DS1-1	1 of 2	30'0"	9.14	183	1–183	41.1 – 42.39	NL4 single
A	1	DS1	DS1-2	2 of 2	30'6"	9.30	186	184–369	42.40 – 43.87	NL4 single
A	2	DS2	DS2-1	1 of 2	30'0"	9.14	183	1–183	44.1 – 45.39	NL8 a
A	2	DS2	DS2-2	2 of 2	30'6"	9.30	186	184–369	45.40 – 46.87	NL8 a
A	3	DS3	DS3-1	1 of 2	30'0"	9.14	183	1–183	47.1 – 48.39	NL8 b
A	3	DS3	DS3-2	2 of 2	30'6"	9.30	186	184–369	48.40 – 49.87	NL8 b
A	4	AUD1	AUD1-1	1 of 3	26'2"	7.98	160	1–160	50.1 – 50.480	NL8 a
A	4	AUD1	AUD1-2	2 of 3	33'4"	10.16	204	161–364	50.481 – 52.72	NL8 a
A	4	AUD1	AUD1-3	3 of 3	33'5"	10.19	204	365–568	52.73 – 53.174	NL8 a
CTRL B · 192.168.41.42 · UNIVERSES 54–63 · 1496 PX										
B	1	AUD2	AUD2-1	1 of 3	27'2"	8.28	166	1–166	54.1 – 54.498	NL8 b
B	1	AUD2	AUD2-2	2 of 3	33'7"	10.24	205	167–371	54.499 – 56.93	NL8 b
B	1	AUD2	AUD2-3	3 of 3	33'5"	10.19	204	372–575	56.94 – 57.195	NL8 b
B	2	US4	US4-1	1 of 2	28'4"	8.64	173	1–173	58.1 – 59.9	NL4 single
B	2	US4	US4-2	2 of 2	21'10"	6.65	134	174–307	59.10 – 59.411	NL4 single
B	3	US5	US5-1	1 of 2	28'4"	8.64	173	1–173	60.1 – 61.9	NL8 a
B	3	US5	US5-2	2 of 2	21'10"	6.65	134	174–307	61.10 – 61.411	NL8 a
B	4	US6	US6-1	1 of 2	28'4"	8.64	173	1–173	62.1 – 63.9	NL8 b
B	4	US6	US6-2	2 of 2	21'10"	6.65	134	174–307	63.10 – 63.411	NL8 b
CTRL C · 192.168.41.43 · UNIVERSES 64–66 · 294 PX										
C	1	USR1-1	USR1-1	1 of 1	16'0"	4.88	98	1–98	64.1 – 64.294	NL4 single
C	2	USR1-2	USR1-2	1 of 1	16'0"	4.88	98	1–98	65.1 – 65.294	NL8 a
C	3	USR1-3	USR1-3	1 of 1	16'0"	4.88	98	1–98	66.1 – 66.294	NL8 b
CTRL D · 192.168.41.44 · UNIVERSES 67–69 · 300 PX										
D	1	USR2-1	USR2-1	1 of 1	16'4"	4.98	100	1–100	67.1 – 67.300	NL4 single
D	2	USR2-2	USR2-2	1 of 1	16'4"	4.98	100	1–100	68.1 – 68.300	NL8 a
D	3	USR2-3	USR2-3	1 of 1	16'4"	4.98	100	1–100	69.1 – 69.300	NL8 b
TOTAL · 14 outputs · 24 segments							3,765	41.1 – 69.300		

Advatek PixLite A4-S Mk3, 4 outputs each, sACN (E1.31), WS2811 RGB, 170 px per universe, "Pixels can be split across universes" OFF, every output starts on a fresh universe at channel 1. Media server clear from universe 86.

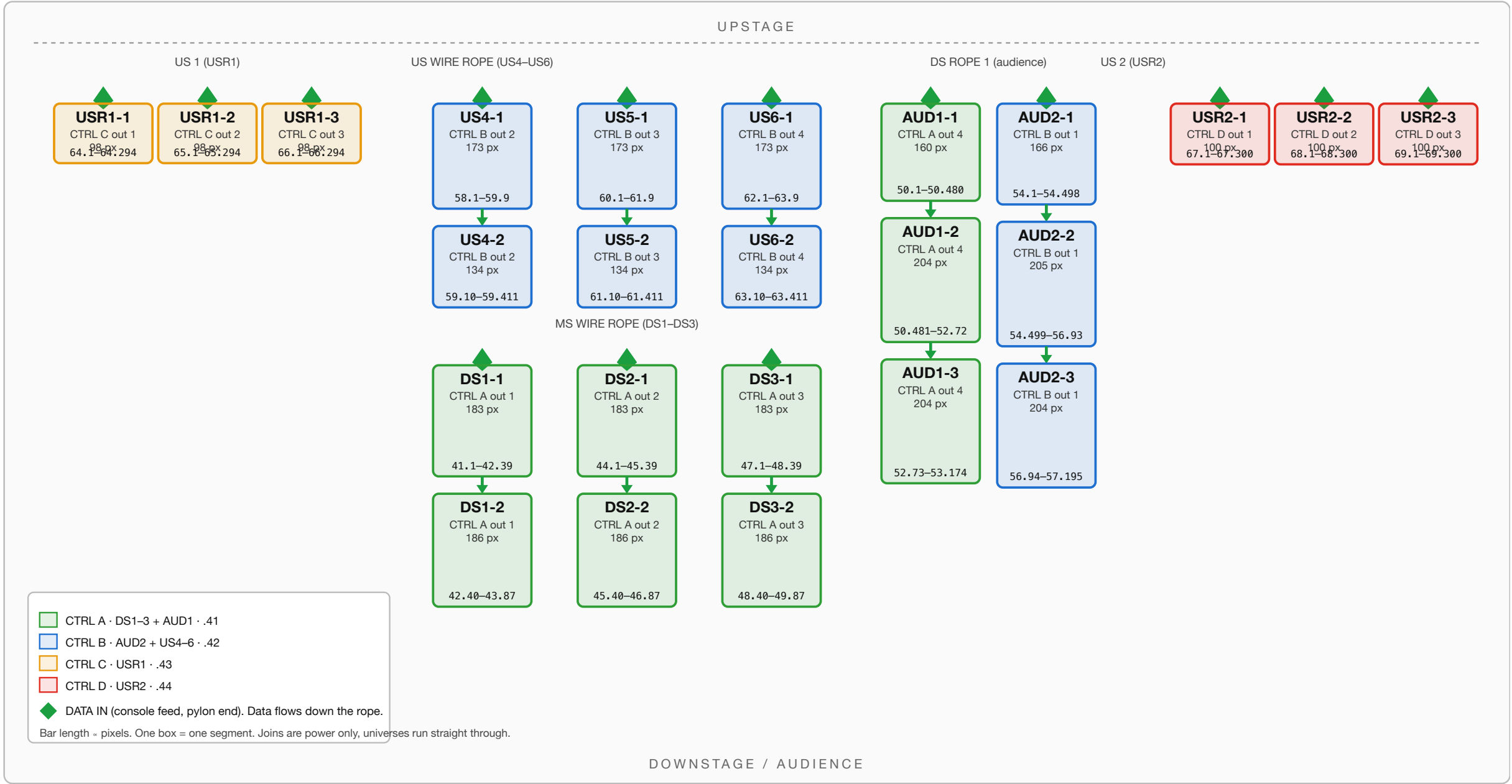
CTRL A		192.168.41.41 · 4 of 4 outputs · 1675 px · universes 41–53						
OUT	RUN	SEGMENTS (DATA FLOW)	PX	CH	UNIVERSES	START	END	FEED
1	DS1	DS1-1 → DS1-2	369	1107	41–43 (3)	41.1	43.87	NL4 single
2	DS2	DS2-1 → DS2-2	369	1107	44–46 (3)	44.1	46.87	NL8 a
3	DS3	DS3-1 → DS3-2	369	1107	47–49 (3)	47.1	49.87	NL8 b
4	AUD1	AUD1-1 → AUD1-2 → AUD1-3	568	1704	50–53 (4)	50.1	53.174	NL8 a

CTRL B		192.168.41.42 · 4 of 4 outputs · 1496 px · universes 54–63						
OUT	RUN	SEGMENTS (DATA FLOW)	PX	CH	UNIVERSES	START	END	FEED
1	AUD2	AUD2-1 → AUD2-2 → AUD2-3	575	1725	54–57 (4)	54.1	57.195	NL8 b
2	US4	US4-1 → US4-2	307	921	58–59 (2)	58.1	59.411	NL4 single
3	US5	US5-1 → US5-2	307	921	60–61 (2)	60.1	61.411	NL8 a
4	US6	US6-1 → US6-2	307	921	62–63 (2)	62.1	63.411	NL8 b

CTRL C		192.168.41.43 · 3 of 4 outputs · 294 px · universes 64–66						
OUT	RUN	SEGMENTS (DATA FLOW)	PX	CH	UNIVERSES	START	END	FEED
1	USR1-1	USR1-1	98	294	64 (1)	64.1	64.294	NL4 single
2	USR1-2	USR1-2	98	294	65 (1)	65.1	65.294	NL8 a
3	USR1-3	USR1-3	98	294	66 (1)	66.1	66.294	NL8 b
4	unused							

CTRL D		192.168.41.44 · 3 of 4 outputs · 300 px · universes 67–69						
OUT	RUN	SEGMENTS (DATA FLOW)	PX	CH	UNIVERSES	START	END	FEED
1	USR2-1	USR2-1	100	300	67 (1)	67.1	67.300	NL4 single
2	USR2-2	USR2-2	100	300	68 (1)	68.1	68.300	NL8 a
3	USR2-3	USR2-3	100	300	69 (1)	69.1	69.300	NL8 b
4	unused							

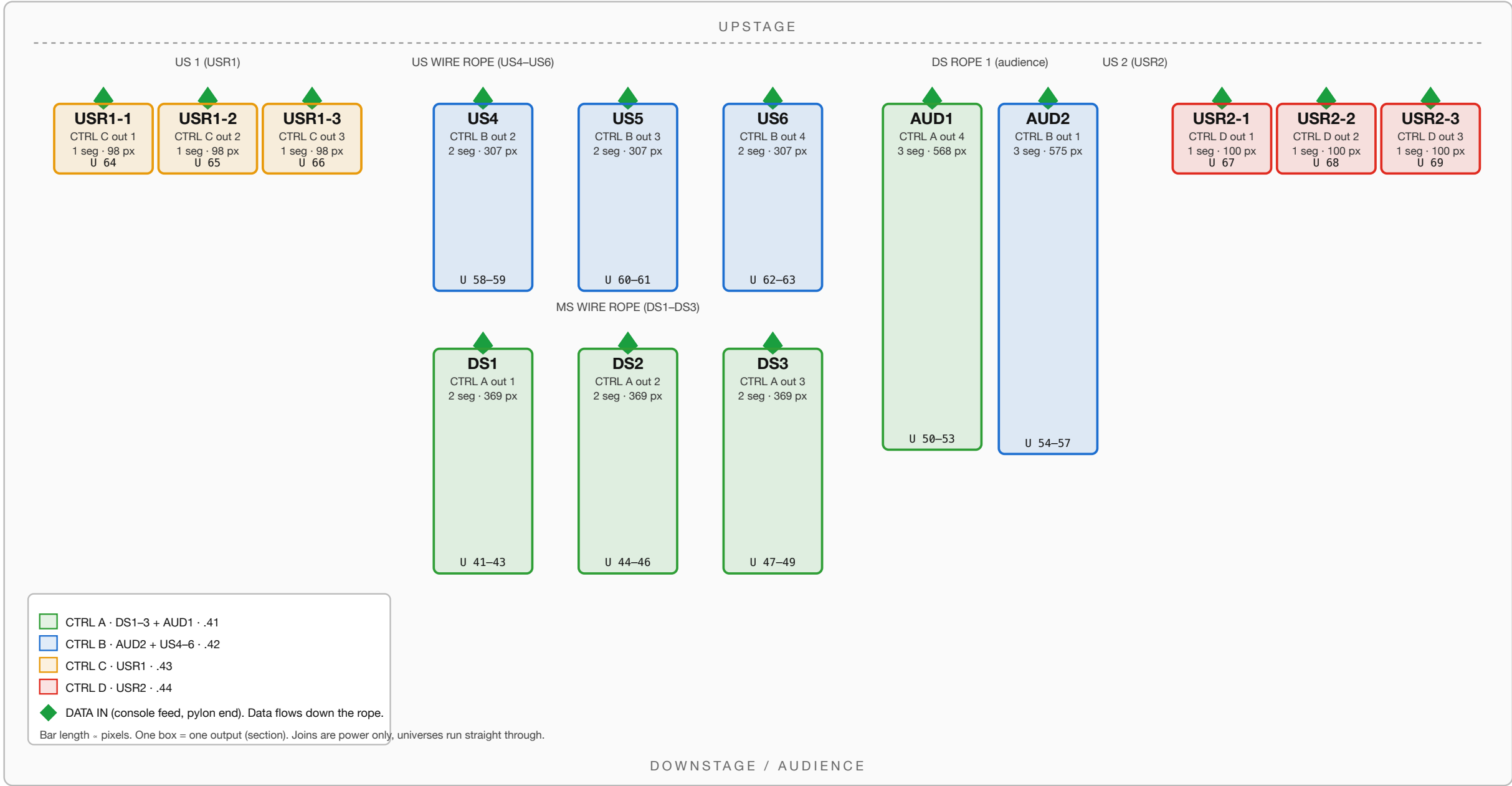
CTRL E · ROAD SPARE, not in the rack		192.168.41.45 · 0 of 4 outputs · 0 px · universes 70–85 held						
OUT	RUN	SEGMENTS (DATA FLOW)	PX	CH	UNIVERSES	START	END	FEED
1	unused							
2	unused							
3	unused							
4	unused							





LD PROGRAMMER DATA MAP · PER SECTION

Spec # KG3-BEA-DM-02 · Beabadoobee 2026 Headline Tour · sACN 41–69 · September 2, 2026





SECTION PIXEL TOTALS

Spec # KG3-BEA-DM-02 · Beabadoobee 2026 · one section = one controller output = one continuous pixel string

SECTION	ZONE (PRODUCTION NAME)	OUTPUT	#SEG	SEGMENTS	SECTION PX	CH	UNIVERSES	START – END
DS1	MS WIRE ROPE	CTRL A out 1	2	DS1-1 → DS1-2	369	1107	41–43	41.1 – 43.87
DS2	MS WIRE ROPE	CTRL A out 2	2	DS2-1 → DS2-2	369	1107	44–46	44.1 – 46.87
DS3	MS WIRE ROPE	CTRL A out 3	2	DS3-1 → DS3-2	369	1107	47–49	47.1 – 49.87
AUD1	DS ROPE 1	CTRL A out 4	3	AUD1-1 → AUD1-2 → AUD1-3	568	1704	50–53	50.1 – 53.174
AUD2	DS ROPE 1	CTRL B out 1	3	AUD2-1 → AUD2-2 → AUD2-3	575	1725	54–57	54.1 – 57.195
US4	US WIRE ROPE	CTRL B out 2	2	US4-1 → US4-2	307	921	58–59	58.1 – 59.411
US5	US WIRE ROPE	CTRL B out 3	2	US5-1 → US5-2	307	921	60–61	60.1 – 61.411
US6	US WIRE ROPE	CTRL B out 4	2	US6-1 → US6-2	307	921	62–63	62.1 – 63.411
USR1-1	US 1	CTRL C out 1	1	USR1-1	98	294	64	64.1 – 64.294
USR1-2	US 1	CTRL C out 2	1	USR1-2	98	294	65	65.1 – 65.294
USR1-3	US 1	CTRL C out 3	1	USR1-3	98	294	66	66.1 – 66.294
USR2-1	US 2	CTRL D out 1	1	USR2-1	100	300	67	67.1 – 67.300
USR2-2	US 2	CTRL D out 2	1	USR2-2	100	300	68	68.1 – 68.300
USR2-3	US 2	CTRL D out 3	1	USR2-3	100	300	69	69.1 – 69.300
TOTAL · 14 sections			24		3,765	11,295	41–69 (29)	



Pylon PXL CTRL rack · bea.kg3.io/chance/rack · Beabadoobie 2026 Headline Tour · September 17, 2026

Front panel: which port is which



KG3 · Beabadoobie 2026 · Rack outputs and controllers · page 1 of 4

Live: bea.kg3.io/chance/rack (PIN)



RACK OUTPUTS AND CONTROLLERS

Every output · ports · network · September 17, 2026

Every output

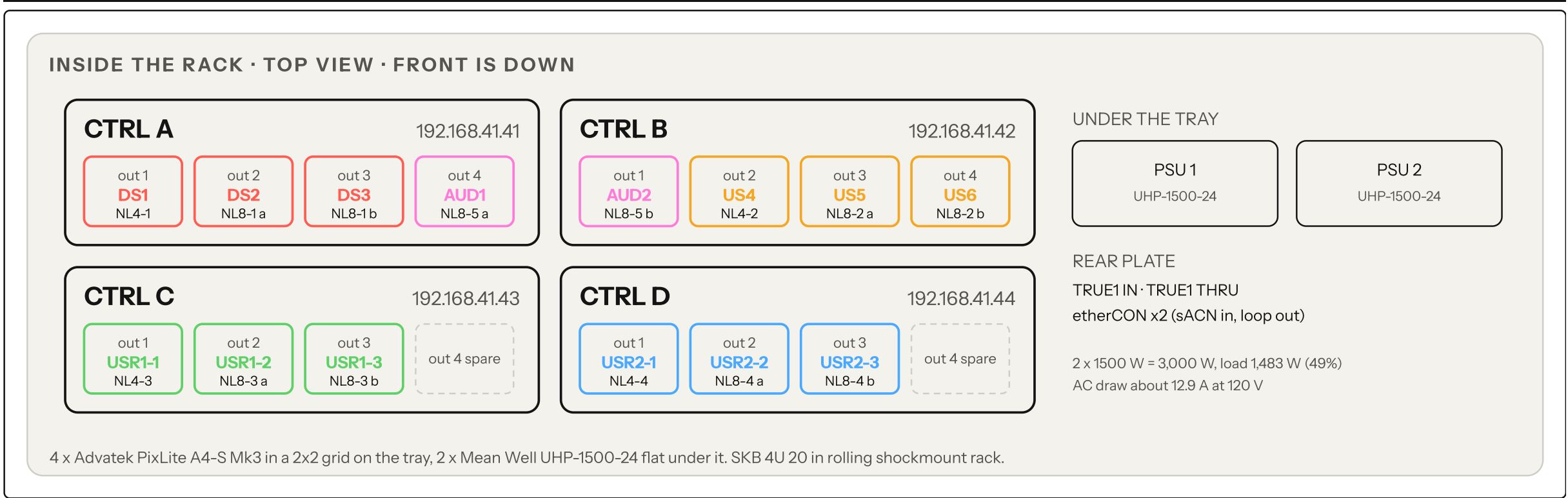
CONTROLLER	OUT	RACK PORT	TYPE	RUN	SEGMENTS (DATA ORDER)	PX	UNIVERSES
CTRL A 192.168.41.41	1	NL4-1	NL4	DS1	DS1-1 > DS1-2	369	41-43
	2	NL8-1 a	NL8	DS2	DS2-1 > DS2-2	369	44-46
	3	NL8-1 b	NL8	DS3	DS3-1 > DS3-2	369	47-49
	4	NL8-5 a	NL8	AUD1	AUD1-1 > AUD1-2 > AUD1-3	568	50-53
CTRL B 192.168.41.42	1	NL8-5 b	NL8	AUD2	AUD2-1 > AUD2-2 > AUD2-3	575	54-57
	2	NL4-2	NL4	US4	US4-1 > US4-2	307	58-59
	3	NL8-2 a	NL8	US5	US5-1 > US5-2	307	60-61
	4	NL8-2 b	NL8	US6	US6-1 > US6-2	307	62-63
CTRL C 192.168.41.43	1	NL4-3	NL4	USR1-1	USR1-1	98	64
	2	NL8-3 a	NL8	USR1-2	USR1-2	98	65
	3	NL8-3 b	NL8	USR1-3	USR1-3	98	66
CTRL D 192.168.41.44	1	NL4-4	NL4	USR2-1	USR2-1	100	67
	2	NL8-4 a	NL8	USR2-2	USR2-2	100	68
	3	NL8-4 b	NL8	USR2-3	USR2-3	100	69

By rack port

RACK PORT	TYPE	CARRIES	GOES TO	PX	UNIVERSES
NL8-1	NL8	leg a DS2 = CTRL A out 2 leg b DS3 = CTRL A out 3	DS wire ropes	738	44-46, 47-49
NL8-2	NL8	leg a US5 = CTRL B out 3 leg b US6 = CTRL B out 4	US wire ropes	614	60-61, 62-63
NL8-3	NL8	leg a USR1-2 = CTRL C out 2 leg b USR1-3 = CTRL C out 3	USR1	196	65, 66
NL8-4	NL8	leg a USR2-2 = CTRL D out 2 leg b USR2-3 = CTRL D out 3	USR2	200	68, 69
NL8-5	NL8	leg a AUD1 = CTRL A out 4 leg b AUD2 = CTRL B out 1	Audience	1143	50-53, 54-57
NL4-1	NL4	DS1 = CTRL A out 1	DS wire ropes	369	41-43
NL4-2	NL4	US4 = CTRL B out 2	US wire ropes	307	58-59
NL4-3	NL4	USR1-1 = CTRL C out 1	USR1	98	64
NL4-4	NL4	USR2-1 = CTRL D out 1	USR2	100	67



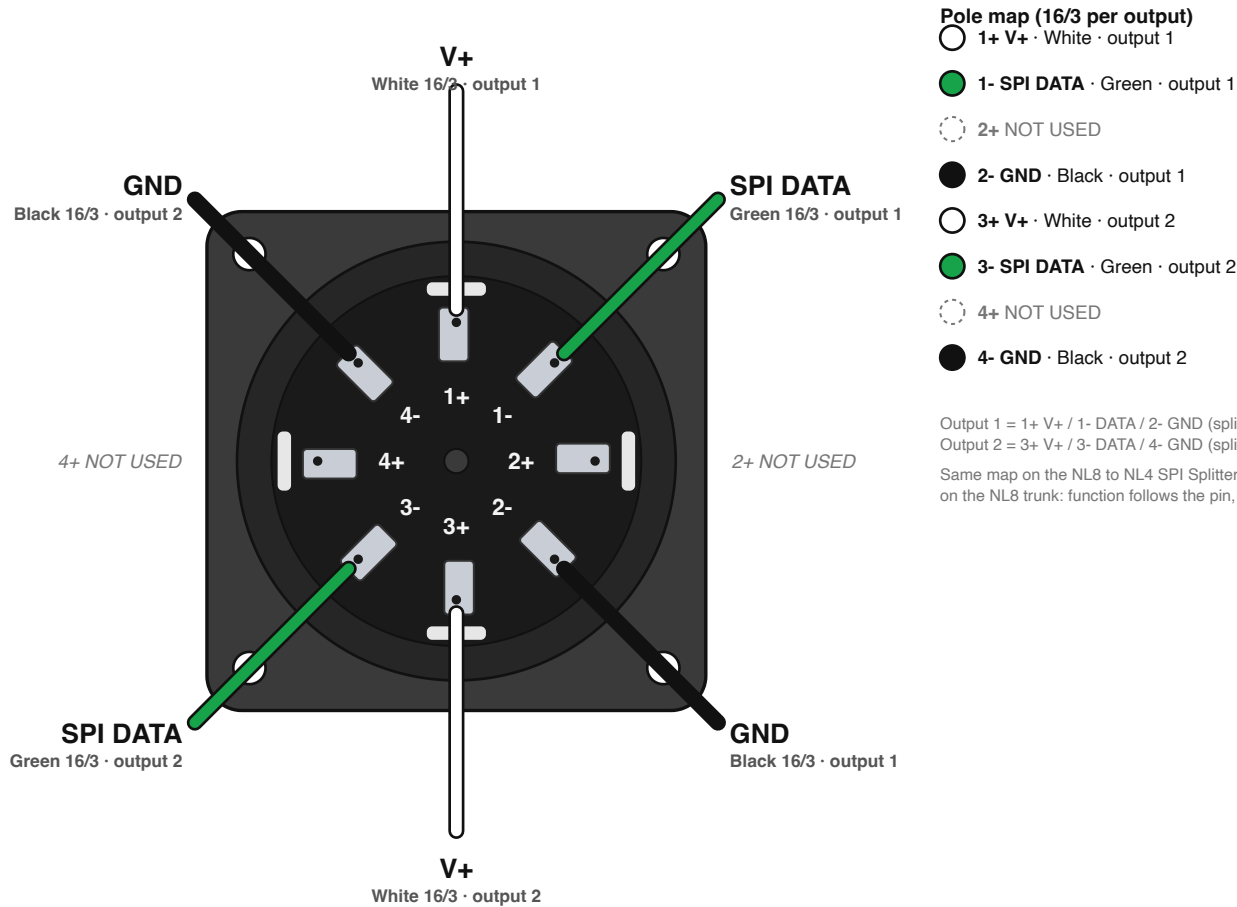
Inside the rack





NL8 Panel Mount (NL8MPR) - 2x SPI Pixel LED outputs - 16/3 wire

Solder side of the rack jack, as seen inside the rack. Two 16/3 SOOW cables (White / Green / Black), one per Advatek output. 2+ and 4+ NOT USED.



Wire map of record: NeonOS cable type NL8 to NL4 SPI Splitter / wirediagramcreator nl8-spi-2x. Geometry: NL8MPR solder side, 1+ at 12 o'clock under the key.

Pole map (solder side)

NL8 POLE	OUTPUT	FUNCTION	16/3 WIRE
1+	Output 1	V+	White
1-	Output 1	DATA	Green
2+	NOT USED, no wire		
2-	Output 1	GND	Black
3+	Output 2	V+	White
3-	Output 2	DATA	Green
4+	NOT USED, no wire		
4-	Output 2	GND	Black

Two Advatek A4-S Mk3 outputs per NL8, one 16/3 SOOW cable each: **output 1 = 1+ V+ / 1- DATA / 2- GND, output 2 = 3+ V+ / 3- DATA / 4- GND**. WHITE = V+, GREEN = SPI DATA, BLACK = GND. **2+ and 4+ take no wire**. Function follows the pin, not the colour: same map on the NL8 trunk and on the NL8 to NL4 SPI Splitter (OUTPUT 1 = poles 1/2, OUTPUT 2 = poles 3/4). Verify colours on the jacket before terminating.



PYLON PXL CTRL RACK

Beabadoobee 2026 · sACN 41-69 · 3,765 px · 192.168.41.0/24 gw .1
CTRL E .45 = road spare, u70-85 held · Sep 4, 2026

CTRL A192.168.41.41				
OUT	RUN	RACK PORT	PX	SACN
1	DS1	NL4-1	369	u41-43
2	DS2	NL8-1 a	369	u44-46
3	DS3	NL8-1 b	369	u47-49
4	AUD1	NL8-5 a	568	u50-53
sACN 41-53 · 1,675 px · 4 outputs live				

CTRL B192.168.41.42				
OUT	RUN	RACK PORT	PX	SACN
1	AUD2	NL8-5 b	575	u54-57
2	US4	NL4-2	307	u58-59
3	US5	NL8-2 a	307	u60-61
4	US6	NL8-2 b	307	u62-63
sACN 54-63 · 1,496 px · 4 outputs live				

CTRL C192.168.41.43				
OUT	RUN	RACK PORT	PX	SACN
1	USR1-1	NL4-3	98	u64
2	USR1-2	NL8-3 a	98	u65
3	USR1-3	NL8-3 b	98	u66
4	spare			
sACN 64-66 · 294 px · 3 outputs live				

CTRL D192.168.41.44				
OUT	RUN	RACK PORT	PX	SACN
1	USR2-1	NL4-4	100	u67
2	USR2-2	NL8-4 a	100	u68
3	USR2-3	NL8-4 b	100	u69
4	spare			
sACN 67-69 · 300 px · 3 outputs live				

NL8 PORTS · TWO RUNS EACH, LEG A / B AT THE SPLITTER

NL8-1 a DS2 A2 b DS3 A3	NL8-2 a US5 B3 b US6 B4	NL8-3 a USR1-2 C2 b USR1-3 C3	NL8-4 a USR2-2 D2 b USR2-3 D3	NL8-5 a AUD1 A4 b AUD2 B1
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NL4 SINGLES = ONE RUN EACH

NL4-1 DS1 A1	NL4-2 US4 B2	NL4-3 USR1-1 C1	NL4-4 USR2-1 D1
-----------------	-----------------	--------------------	--------------------



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Pixel Count & Channel Map

Ref #: KG3-26-BEA-PX01 **Project:** Conor Houston · Beabadoobee · 2026 Headline Tour · LED Pixel Rope Package (V2.2 Design · Black 22mm)

CLIENT Eighteen Twenty Six (1826 Touring) Beabadoobee 2026 Headline Tour Attn: Conor Houston (PM) connorhoustonlive@gmail.com	PRODUCTION DESIGN Daniel Richardson Production + Lighting Designer Eighteen Twenty Six danrichardson@eighteentwentysix.com	PRODUCT KG3 LumiRope 360 · 22mm black WS2811 RGB · DC 24V 120 LEDs/m · 20 px/m (50 mm pitch) 3 DMX channels per pixel
SOURCE Lengths: Scenic 1826 Sheet 4.11 Drawings V2.2, 12.08.2026 Pixel counts rounded up (ceil)	REP Kenny Gay KG3 LLC kenny@kg3.io	CONTROL 5x KG3 PXL-CTRL (Advatek PixLite A4-S Mk3) 14 data outputs · one run per output 170 px / 510 ch per universe

ISSUED 08/26/2026	US REHEARSALS 09/22/2026	TOUR END 12/07/2026	STATUS For Patch
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SEGMENTS 24 physical rope pieces	RUNS / OUTPUTS 14 across 5 PXL-CTRL	TOTAL PIXELS 3,765 187.8 m lit @ 20 px/m	TOTAL CHANNELS 11,295 RGB · 3 ch per pixel	UNIVERSES 27 fresh universe per output
--	---	--	--	--

PER RUN (ONE RUN = ONE CONTROLLER DATA OUTPUT)

RUN	OUTPUT	SEGMENTS IN DATA ORDER	LENGTH	METERS	PIXELS	CHANNELS	UNIV.
DS CABLES · PYLON TO BACKDROP WINCHES · CTRL A							
DS1	CTRL A · Out 1	DS1-1 + DS1-2	60'6"	18.44 m	369	1,107	3
DS2	CTRL A · Out 2	DS2-1 + DS2-2	60'6"	18.44 m	369	1,107	3
DS3	CTRL A · Out 3	DS3-1 + DS3-2	60'6"	18.44 m	369	1,107	3
US CABLES · PYLON TO SCENIC WINCHES · CTRL B							
US4	CTRL B · Out 1	US4-1 + US4-2	50'2"	15.29 m	307	921	2
US5	CTRL B · Out 2	US5-1 + US5-2	50'2"	15.29 m	307	921	2
US6	CTRL B · Out 3	US6-1 + US6-2	50'2"	15.29 m	307	921	2
USR CABLES · SINGLE-END FED · CTRL C / CTRL D							
USR1	CTRL C · Out 1	USR1-1 + USR1-2 + USR1-3	48'0"	14.64 m	294	882	2
USR2	CTRL D · Out 1	USR2-1 + USR2-2 + USR2-3	49'0"	14.94 m	300	900	2
AUDIENCE CABLES · AP1 / AP2 / AP3 · CTRL E							
AUD1	CTRL E · Out 1	Audience 1-1 + Audience 1-2 + Audience 1-3	92'11"	28.33 m	568	1,704	4

RUN	OUTPUT	SEGMENTS IN DATA ORDER	LENGTH	METERS	PIXELS	CHANNELS	UNIV.
AUD2	CTRL E · Out 2	Audience 2-1 + Audience 2-2 + Audience 2-3	94'2"	28.71 m	575	1,725	4
RIG TOTAL · 14 outputs · 24 segments · 616'1" · 187.8 m					3,765	11,295	27

PATCH NOTES

Each output is one contiguous block of channels. Patch the lowest channel at the data-in end of the run and count up 3 channels per pixel in data-flow order (segment .1 first, then .2, then .3). Universe counts assume each output starts on a fresh universe at 170 pixels per universe with no pixel split across a universe boundary; packed end to end the rig fits in 23 universes, but plan on 27 so every output patches clean. Largest single output is AUD2 at 575 px, well inside the 1,020 px per output ceiling of the PixLite A4-S Mk3. If a null pixel is spliced at the top of the up-tower feed, add 1 pixel (3 channels) to the front of that output and patch it as a dead pixel.

PER SEGMENT (24 PHYSICAL PIECES)

RUN	SEGMENT	FED FROM OUTPUT	LENGTH	METERS	PIXELS	CHANNELS
DS CABLES · PYLON TO BACKDROP WINCHES · CTRL A						
DS1	DS1-1	CTRL A · Out 1	30'0"	9.14 m	183	549
	DS1-2		30'6"	9.30 m	186	558
DS1 run total · 2 segments · 60'6" · 18.44 m					369	1,107
DS2	DS2-1	CTRL A · Out 2	30'0"	9.14 m	183	549
	DS2-2		30'6"	9.30 m	186	558
DS2 run total · 2 segments · 60'6" · 18.44 m					369	1,107
DS3	DS3-1	CTRL A · Out 3	30'0"	9.14 m	183	549
	DS3-2		30'6"	9.30 m	186	558
DS3 run total · 2 segments · 60'6" · 18.44 m					369	1,107
US CABLES · PYLON TO SCENIC WINCHES · CTRL B						
US4	US4-1	CTRL B · Out 1	28'4"	8.64 m	173	519
	US4-2		21'10"	6.65 m	134	402
US4 run total · 2 segments · 50'2" · 15.29 m					307	921
US5	US5-1	CTRL B · Out 2	28'4"	8.64 m	173	519
	US5-2		21'10"	6.65 m	134	402
US5 run total · 2 segments · 50'2" · 15.29 m					307	921
US6	US6-1	CTRL B · Out 3	28'4"	8.64 m	173	519
	US6-2		21'10"	6.65 m	134	402
US6 run total · 2 segments · 50'2" · 15.29 m					307	921
USR CABLES · SINGLE-END FED · CTRL C / CTRL D						
USR1	USR1-1	CTRL C · Out 1	16'0"	4.88 m	98	294
	USR1-2		16'0"	4.88 m	98	294
	USR1-3		16'0"	4.88 m	98	294
USR1 run total · 3 segments · 48'0" · 14.64 m					294	882

RUN	SEGMENT	FED FROM OUTPUT	LENGTH	METERS	PIXELS	CHANNELS
USR2	USR2-1	CTRL D · Out 1	16'4"	4.98 m	100	300
	USR2-2		16'4"	4.98 m	100	300
	USR2-3		16'4"	4.98 m	100	300
USR2 run total · 3 segments · 49'0" · 14.94 m					300	900
AUDIENCE CABLES · AP1 / AP2 / AP3 · CTRL E						
AUD1	Audience 1-1	CTRL E · Out 1	26'2"	7.98 m	160	480
	Audience 1-2		33'4"	10.16 m	204	612
	Audience 1-3		33'5"	10.19 m	204	612
AUD1 run total · 3 segments · 92'11" · 28.33 m					568	1,704
AUD2	Audience 2-1	CTRL E · Out 2	27'2"	8.28 m	166	498
	Audience 2-2		33'7"	10.24 m	205	615
	Audience 2-3		33'5"	10.19 m	204	612
AUD2 run total · 3 segments · 94'2" · 28.71 m					575	1,725

NOTES

- Pixel count = ceil(length in meters x 20). The partial pixel at the cut end is physically present and must be patched.
- Lengths are the scenic designer's Sheet 4.11 estimates (V2.2 12.08.2026). Final cut lengths confirmed at KG3 shop before ship; counts update if lengths change.
- Segments joined on the same output pass data straight through; no address gaps between segments.
- Segment weights, power loads, and injection points are in the companion document BEA Run & Segment Loads (bea.kg3.io/segments).

Segments	24
Runs (outputs)	14
Lit length	187.8 m
Pixels	3,765
Universes	27
TOTAL CHANNELS	11,295

D

REFERENCE AND SPECIAL CASES

Internal only: retractor plan, potential cuts (not adopted), spec sheet, plot, manifest, contacts.

- RETRACTOR · Retractor Plan (LMG gear, internal only)
- KG3-BEA-LEN-01 · Potential cuts to LED, V2.2 vs V2.4 (NOT adopted)
- SPEC · LumiRope 360 22 mm Black spec sheet
- SHEET 4.11 · 1826 plot V2.2 LED Cable Only (lengths of record)
- KG3-26-BEA-MANIFEST-01 · Equipment Manifest
- NEW · Contacts and fill-in

BEA 2026 Retractor Plan

24V DC on 12/3 down an LMG 50 ft cable retractor at the 4 winch feed points · fixed drops at the 3 audience chain motors · rev Aug 31, 2026

Input to each flown PWR-NJCT: powerCON TRUE1 AC mains, no data. AC runs up to the box, the box converts to 24V DC at height, and the DC goes down the retractor into the rope. Data never enters an injector; every run is driven from its PXL-CTRL at the pylon, through the rope itself.

The tour winch is the **Wahlberg Winch 50**, which has no power or data pass-through, so LED power and data cannot ride the winch. Each of the four DS/US winch PWR-NJCT positions instead gets a **50 ft self-retracting cable reel, provided by LMG, clamped in the truss beside the winch, carrying 12/3**. Four retractors is the whole count for now (winch + power inject at NJCT 1 to 4). The retractor carries the 24V DC drop (two +24V legs and a shared negative on Chance's NL4 pin map) down to the rope and pays out and takes up with the winch travel. **The three audience pickups (AP 1/2/3) do not winch** (confirmed on the Aug 18 production call): they hang from chain motors, fly to trim and stay static, so their PWR-NJCT drops are fixed-length cables lashed to the black pickup cable, no retractor. The fixed AP drops are our own 12/3 SOOW; the winch drops are 12/3 on LMG's reels, one gauge for all four. No conversion pod, and the deck racks stay 24V. The cost is one more moving cable managed at each of the four winches, and on a 50 ft reel the full 50 ft of copper is always in the circuit (the drum and slip ring carry it whether it is paid out or not), so the winch drops see more voltage drop than the 14 ft of travel would suggest; numbers below.

PWR-NJCT details and drop gauge

Gauge of record: **12/3 SOOW on every drop** (decision Aug 31, supersedes the Aug 26 #10 pick). Loads are the live per-box figures from [/segments](#) at the measured 23.04 W/m. The shared negative carries the full box current, so the gauge is set by the box total. Drop lengths: DS/US is 14 ft of winch travel, but the electrical length is the full 50 ft on the LMG reel (all of it is in circuit through the slip ring), so V-drop for NJCT 1 to 4 is figured on 50 ft; audience per Sheet 4.11 (fixed drops on the chain-motor pickups, no retractor); laser-verify every fixed drop before the cable order. V-drop at the winches is shown two ways: 12/3 (shared negative carries the box total) and 12/4 (both pairs landed on NL4 1+/1- and 2+/2-, each pair carries half). Cable OD and weight are typical SOOW values, verify against LMG's reel cable datasheet.

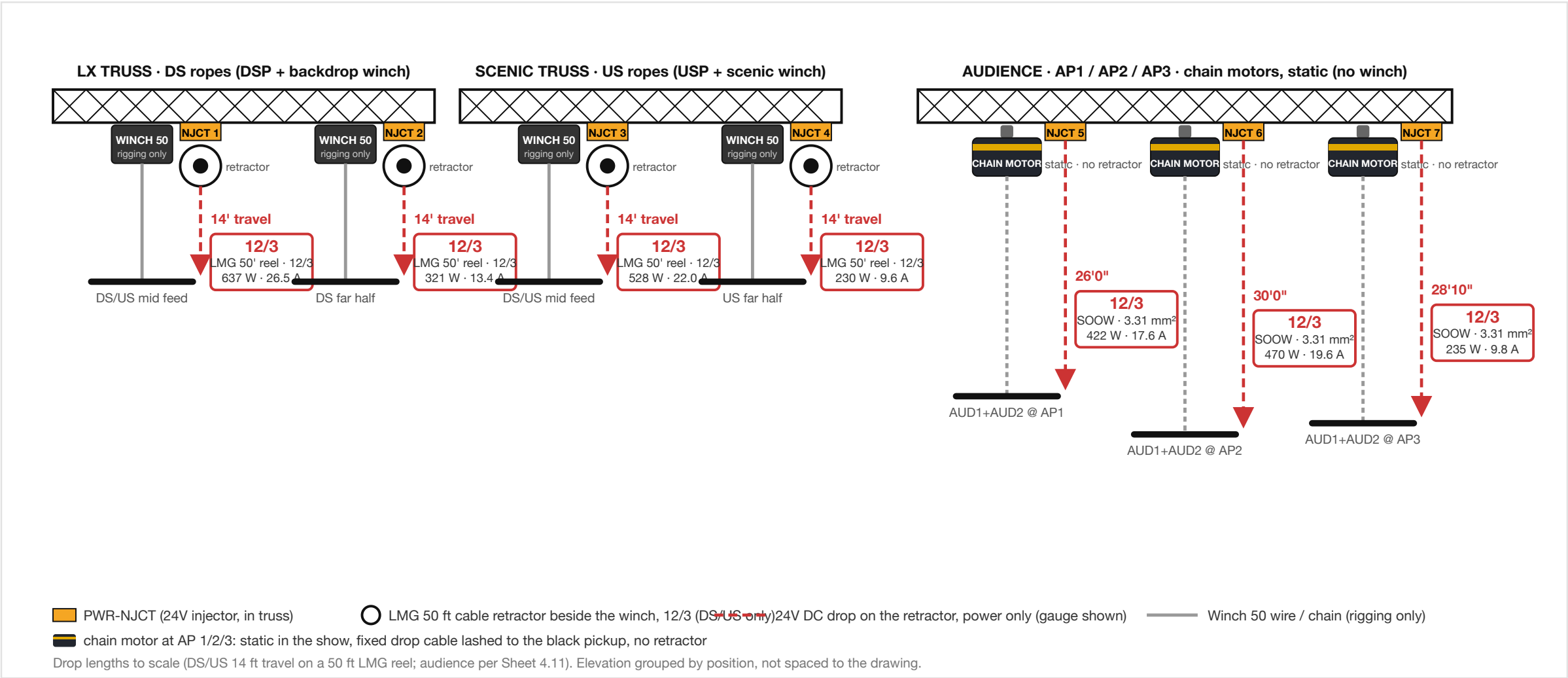
INJECTOR	POSITION	FEEDS	LOAD	DROP	24V AMPS	DROP CABLE	V- DROP	SOOW OD	WEIGHT	EDGE NOTE
PWR-NJCT 1	DS pickup (DSP), LX truss	mid feed, all 3 DS ropes	637 W	14' travel 50' reel	26.5 A	12/3 3.31 mm² · LMG 50 ft reel	17.5% (12/3) 8.8% (12/4)	≈0.50" / 12.7 mm	≈0.18 lb/ft	Heaviest drop. Land both pairs (12/4) to hold ~8.8%; with 12/3 the DS group master gets set around the ~17.5% full-white figure at rehearsal.
PWR-NJCT 2	DS end (backdrop truss winch)	far half of all 3 DS seg 2	321 W	14' travel 50' reel	13.4 A	12/3 3.31 mm² · LMG 50 ft reel	8.9% (12/3) 4.4% (12/4)	≈0.50" / 12.7 mm	≈0.18 lb/ft	Both pairs landed (12/4) holds ~4.4%.

INJECTOR	POSITION	FEEDS	LOAD	DROP	24V AMPS	DROP CABLE	V- DROP	SOOW OD	WEIGHT	EDGE NOTE
PWR-NJCT 3	US pickup (USP), scenic truss	mid feed, all 3 US ropes	528 W	14' travel 50' reel	22.0 A	12/3 3.31 mm² · LMG 50 ft reel	14.6% (12/3) 7.3% (12/4)	≈0.50" / 12.7 mm	≈0.18 lb/ft	Land both pairs (12/4) to hold ~7.3%; with 12/3 the US group master gets set around the ~14.6% full-white figure at rehearsal.
PWR-NJCT 4	US end (scenic truss winch)	far half of all 3 US seg 2	230 W	14' travel 50' reel	9.6 A	12/3 3.31 mm² · LMG 50 ft reel	6.4% (12/3) 3.2% (12/4)	≈0.50" / 12.7 mm	≈0.18 lb/ft	Lightest winch drop; ~3.2% with both pairs landed (12/4).
PWR-NJCT 5	AP1, chain motor (static, fixed drop)	AUD1 + AUD2 at AP1	422 W	26'0"	17.6 A	12/3 3.31 mm² · SOOW	6.1%	≈0.50" / 12.7 mm	≈0.18 lb/ft	Decision (Aug 31): 12/3 here, one gauge on every drop. 6.1% round trip at full white on 26 ft; the AUD group master dials it in at rehearsal.
PWR-NJCT 6	AP2, chain motor (static, fixed drop)	AUD1 + AUD2 at AP2	470 W	30'0"	19.6 A	12/3 3.31 mm² · SOOW	7.8%	≈0.50" / 12.7 mm	≈0.18 lb/ft	Decision (Aug 31): 12/3. 7.8% round trip at full white on the 30 ft run; the AUD group master dials it in at rehearsal.
PWR-NJCT 7	AP3, chain motor (static, fixed drop)	AUD1 + AUD2 at AP3	235 W	28'10"	9.8 A	12/3 3.31 mm² · SOOW	3.7%	≈0.50" / 12.7 mm	≈0.18 lb/ft	12/3 fixed drop; 3.7% round trip at full white on 28'10".
Total	4 retractors + 3 fixed drops	24 segments · 187.8 m	2,843 W		118.5 A	Winch drops NJCT 1 to 4: 12/3 on 4× LMG 50 ft retractors, nothing to buy but the NL4 tails at each end. Fixed drop buy: 3× 12/3 SOOW (AP1 26', AP2 30', AP3 28'10"), drop length + tails. Every drop on the job is 12/3.				

One gauge everywhere: 12/3 (decision Aug 31, supersedes the Aug 26 #10 pick). The 50 ft reel replaces the per-position gauge pick at NJCT 1 to 4, and a self-retracting reel keeps its whole cable in the circuit, so the math runs on 50 ft, not the 14 ft of travel. Full-white figures at 12/3: NJCT 1 ~17.5% round trip with a shared negative (8.8% if the reel cable is 12/4 and both pairs are landed on the NL4 1+/1- and 2+/2-), NJCT 3 ~14.6% / 7.3%. Ask LMG for the reel model, conductor count (12/3 vs 12/4) and the reel's electrical rating. Group masters get set around the full-white figures at rehearsal (the injectors sit mid-run, so rope ends see reel drop plus rope drop). Fixed drops are 12/3 as well: AP1 ~6.1% at full white on 26 ft, AP2 ~7.8% on 30 ft, AP3 ~3.7%; the AUD group master dials them in. All winch drops terminate on NL4 (speakON). Rule stays: never unplug under load. AWG to metric: #12 = 3.31 mm².

Layout: retractor at each winch feed point, fixed drop at each audience chain motor

Same convention as the [Power & Data Plan](#): amber = PWR-NJCT, red dashed = the 24V drop, grey = the pickup (winch wire or chain, rigging only). At DS/US the retractor clamps in the truss next to the winch and the drop follows the pickup down to the rope. At AP 1/2/3 the pickup is a chain motor that stays static in the show, so the drop is a fixed cable lashed to the black pickup cable.



Point weights at the retractor / winch positions

Point loads from [/rigging](#) (V2.2 geometry, rope planned at 0.5 kg/m, rings paired at every point, 1.8 kg feed-cable allowance at each injector column). At DS/US the retractor clamps to the truss chord beside the winch, so the reel and the drop cable load the **truss**, not the winch pickup: the winch line stays rigging only. At AP 1/2/3 there is no retractor: the fixed drop cable is lashed to the black pickup cable and its weight lands on the chain-motor point. At the winches the drop cable is the full 50 ft of 12/3 on the LMG reel (≈0.18 lb/ft, ≈4.1 kg; 12/4 ≈5 kg), and it sits on the reel, so the truss carries it in every winch position. Fixed-drop weights use the SOOW figures in the table above times the drop length. Retractor unit weight: LMG to supply the reel spec; add it per position on the truss.

POSITION		ROPES	POINT LOAD	LB	DROP CABLE	DROP CABLE WEIGHT	RETRACTOR UNIT
NJCT 1	DSP winch column (LX truss)	3	16.4 kg	36.1	12/3 × 50' on the LMG reel	≈4.1 kg (on the truss)	LMG 50 ft reel, wt TBD
NJCT 2	DS end column (backdrop winches)	3	9.5 kg	21.0	12/3 × 50' on the LMG reel	≈4.1 kg (on the truss)	LMG 50 ft reel, wt TBD
NJCT 3	USP winch column (scenic truss)	3	14.0 kg	30.9	12/3 × 50' on the LMG reel	≈4.1 kg (on the truss)	LMG 50 ft reel, wt TBD
NJCT 4	US end column (scenic winches)	3	7.5 kg	16.6	12/3 × 50' on the LMG reel	≈4.1 kg (on the truss)	LMG 50 ft reel, wt TBD
NJCT 5	AP1 chain motor (26'0" fixed drop)	2	11.5 kg	25.4	12/3 × 26'	≈2.1 kg (on the motor point)	none
NJCT 6	AP2 chain motor (30'0" fixed drop)	2	12.5 kg	27.6	12/3 × 30'	≈2.4 kg (on the motor point)	none
NJCT 7	AP3 chain motor (28'10" fixed drop)	2	7.4 kg	16.3	12/3 × 28'10"	≈2.4 kg (on the motor point)	none
USR1 / USR2 backdrop winch columns (no injector)		3	4.4 / 4.5 kg	~9.8	none	0	none
All 38 points (incl. pylon heads and AUD anchors)		14 runs	116.0 kg	256	rope 93.9 kg · 76 rings / 9.5 kg · ~0.2 kg safety per flown point · 7 injector boxes ~8.4 kg each clamped in the truss		

What this changes vs the winch pass-through

- The Winch 50 has no pass-through, so it is rigging only. Nothing electrical touches the winch or its wire.
- No 48V conversion pod. Deck racks stay 24V (existing PSU racks, ~36 A at 120V mains at full white).
- Four LMG-provided 50 ft cable retractors clamped in the truss, one beside each DS/US winch, all carrying 12/3. Four is the full count for now (winch + power inject only). The three audience APs are chain-motor pickups that fly to trim and stay static, so their drops are fixed cables lashed to the black pickup cable: no retractor.
- One gauge on the winches instead of #8/#12/#10/#14 per position. The fixed AP drops are 12/3 as well, so every drop on the job is one gauge (12/3, decision Aug 31). The trade is voltage drop on the full 50 ft reel at NJCT 1 and 3 (see the table).
- No data on any drop. Data starts at the pylon PXL-CTRL rack and rides the rope itself; the drop is power only.

Open items before ordering

- From LMG on the 50 ft retractors: reel model, conductor count of the 12/3 cable (12/3 vs 12/4), slip ring / reel electrical rating (NJCT 1 runs 26.5 A, NJCT 3 22 A), end terminations, unit weight, and the clamp to the truss chord beside the winch.
- Console: with 12/3 reel cable, set DS and US group master caps around the full-white drop at NJCT 1 (~17.5%) and NJCT 3 (~14.6%); with 12/4 both pairs landed the caps get smaller (~8.8% / ~7.3%).
- Laser-verify the three fixed drops (AP1/AP2/AP3 chain-motor trim heights) and confirm DS/US winch travel stays inside the 50 ft reel.
- Confirm the Winch 50 model / lifting bar on the LMG order so the retractor mount and pickup geometry match.
- Strain relief at the rope end and at the retractor exit; safety on the retractor body. At AP 1/2/3, lashing spec for the fixed drop along the black pickup cable.
- Electrician sign-off: deck mains unchanged, flown side 24V DC on the retractor.

KG3 LLC · Nashville TN · kenny@kg3.io · 615.904.5640 · Beabadoobee 2026 Headline Tour · Retractor Plan · loads from bea.kg3.io/segments (measured 23.04 W/m) · cable math: round-trip V-drop at 24V full white · 12/3 on every drop: LMG 50 ft reels at the winches (full reel length in circuit), fixed drops per Sheet 4.11 pending field verify



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POTENTIAL CUTS TO LED

Will not know until rehearsals if cutting is needed · KG3-BEA-LEN-01 · Beabadoobee 2026 · Sheet 4.11 V2.2 vs V2.4 · September 10, 2026

CURRENT PLAN OF RECORD Sheet 4.11 · V2.2 · 12 Aug 2026 KG3-26-BEA-PixelCount (26 Aug), neon-prod.json, NeonProd cutting plan 2 Sep, every patch sheet in this kit		POTENTIAL (NOT ADOPTED) Sheet 4.11 · V2.4 · 7 Sep 2026 Received from 1826 on 9 Sep. Will not know until rehearsals if cutting is needed. Do not cut to these until Kenny says so.	
PIECES CHANGED 9 of 24 all shorter, none longer	ROPE REMOVED -14'0" 4.27 m less lit rope	PIXELS -84 3,765 → 3,681 px	STOCK LENGTHS no change 6 x 5 m · 14 x 10 m · 4 x 11 m

Red = shorter, rope removed (-) Green = longer, rope added (+) Grey = no change

PIXEL ROPE, 24 PIECES

CABLE	TYPE	CURRENT V2.2	POTENTIAL V2.4	DIFFERENCE	CUT MM	CUR → NEW	PIXELS	CUR → NEW	Δ PX
DS WIRE ROPES (MS WIRE ROPE)									
DS1-1	PIXEL	30'0"	26'6"	-3'6"	9150 → 8100	183 → 162	-21	SHORTER	
DS1-2	PIXEL	30'6"	30'6"	0	9300	186	0	SAME	
DS2-1	PIXEL	30'0"	26'6"	-3'6"	9150 → 8100	183 → 162	-21	SHORTER	
DS2-2	PIXEL	30'6"	30'6"	0	9300	186	0	SAME	
DS3-1	PIXEL	30'0"	26'6"	-3'6"	9150 → 8100	183 → 162	-21	SHORTER	
DS3-2	PIXEL	30'6"	30'6"	0	9300	186	0	SAME	
Group total		181'6"	171'0"	-10'6"		1107 → 1044	-63		
US WIRE ROPES (US WIRE ROPE)									
US4-1	PIXEL	28'4"	28'0"	-0'4"	8650 → 8550	173 → 171	-2	SHORTER	
US4-2	PIXEL	21'10"	21'0"	-0'10"	6700 → 6450	134 → 129	-5	SHORTER	
US5-1	PIXEL	28'4"	28'0"	-0'4"	8650 → 8550	173 → 171	-2	SHORTER	
US5-2	PIXEL	21'10"	21'0"	-0'10"	6700 → 6450	134 → 129	-5	SHORTER	
US6-1	PIXEL	28'4"	28'0"	-0'4"	8650 → 8550	173 → 171	-2	SHORTER	
US6-2	PIXEL	21'10"	21'0"	-0'10"	6700 → 6450	134 → 129	-5	SHORTER	
Group total		150'6"	147'0"	-3'6"		921 → 900	-21		
USR1 (US 1) AND USR2 (US 2)									
USR1-1	PIXEL	16'0"	16'0"	0	4900	98	0	SAME	
USR1-2	PIXEL	16'0"	16'0"	0	4900	98	0	SAME	
USR1-3	PIXEL	16'0"	16'0"	0	4900	98	0	SAME	
USR2-1	PIXEL	16'4"	16'4"	0	5000	100	0	SAME	
USR2-2	PIXEL	16'4"	16'4"	0	5000	100	0	SAME	
USR2-3	PIXEL	16'4"	16'4"	0	5000	100	0	SAME	
Group total		97'0"	97'0"	0		594	0		
AUDIENCE (DS ROPE 1)									
Audience 1-1	PIXEL	26'2"	26'2"	0	8000	160	0	SAME	
Audience 1-2	PIXEL	33'4"	33'4"	0	10200	204	0	SAME	
Audience 1-3	PIXEL	33'5"	33'5"	0	10200	204	0	SAME	
Audience 2-1	PIXEL	27'2"	27'2"	0	8300	166	0	SAME	
Audience 2-2	PIXEL	33'7"	33'7"	0	10250	205	0	SAME	
Audience 2-3	PIXEL	33'5"	33'5"	0	10200	204	0	SAME	
Group total		187'1"	187'1"	0		1143	0		
Rig total, 24 pieces		616'1" (187.8 m)	602'1" (183.5 m)	-14'0" (-4.27 m)		3,765 → 3,681	-84		

BLACK PICKUP CABLES, 9 (1826 SUPPLIES)

CABLE	TYPE	CURRENT V2.2	POTENTIAL V2.4	DIFFERENCE
DS Pickup -1	BLACK	14'0"	14'0"	0 SAME

CABLE	TYPE	CURRENT V2.2	POTENTIAL V2.4	DIFFERENCE
DS Pickup -2	BLACK	14'0"	14'0"	0 SAME
US Pickup -1	BLACK	14'0"	14'0"	0 SAME
US Pickup -2	BLACK	14'0"	14'0"	0 SAME
USR Pickup -1	BLACK	14'0"	14'0"	0 SAME
USR Pickup -2	BLACK	14'0"	14'0"	0 SAME
Audience Pickup 1	1' Black Cable	26'0"	26'0"	0 SAME
Audience Pickup 2	1' Black Cable	30'0"	30'0"	0 SAME
Audience Pickup 3	1' Black Cable	28'10"	28'10"	0 SAME

STOCK DOES NOT MOVE All 9 changed pieces still come out of 10 m stock (DS-1 9150 → 8100 mm, US-1 8650 → 8550 mm, US-2 6700 → 6450 mm). If a piece is already cut to V2.2, the V2.4 length is a trim, never a re-pull.	PATCH DOES NOT MOVE DS runs go 369 → 348 px and stay at 3 universes each. US runs go 307 → 300 px and stay at 2. The sACN block 41 through 69 sent to LX holds.	IF V2.4 IS ADOPTED Pixel Count, neon-prod.json, the NeonProd cutting plan and this kit's patch sheets all get reissued with the new lengths. USR, Audience and every pickup cable are identical on both sheets.
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KG3 · Beabadoobee 2026 · Potential Cuts to LED · bea.kg3.io/chance/kit

pixels = ceil(m × 20) · cut = length rounded UP to 50 mm



Nashville, TN

kg3.io

Product Specification Sheet

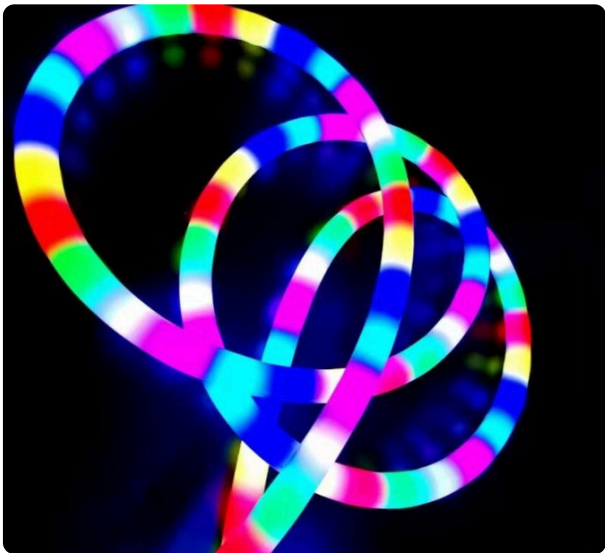
360° PIXEL NEON ROPE • BLACKOUT

LUMIROPE™ 360° PIXEL HD 22MM BLACK

Black-jacket 360° pixel rope. Invisible when off, full color when lit.

WS2811-driven RGB pixel rope in a true black silicone jacket with full **360° omnidirectional emission**. 120 LEDs per meter, 20 addressable pixels per meter. Reads as plain black cable unlit; seamless full-color glow from every angle when lit.

- True black silicone jacket, disappears on stage unlit
- WS2811 IC, individually addressable pixels
- Full 360° omnidirectional emission
- 120 LEDs/m across 20 pixels/m for HD diffusion
- Compatible with KG3 PXL CTRL system
- Flown and free-hanging install ready



360°

BEAM ANGLE

120/m

LEDS PER METER

20/m

PIXELS PER METER

50mm

PIXEL PITCH

24^VDC

INPUT VOLTAGE

WHY BLACK + 360°

Standard pixel rope has a milky white jacket that reads on camera even when dark. The **black jacket** vanishes against a dark stage and reads as plain rigging line in daylight, then lights full-color from every angle. Built for flown powerline looks, in-the-round rigs, and camera-facing scenic where off means invisible.

AVAILABLE LENGTHS FOR RENTAL

5m

16.4 ft

10m

32.8 ft

11m

36.1 ft

Custom lengths and quantities available upon request.

PHYSICAL SPECIFICATIONS

Profile	22mm Round
Housing	Black Diffused Silicone
Off-State Color	Black
Weight	≈ 420 g/m
Viewable Angle	360°
IP Rating	IP67
Cut Increment	50 mm

ELECTRICAL SPECIFICATIONS

IC / Driver	WS2811
LED Type	SMD RGB
Input Voltage	24 VDC
LED Density	120 LEDs/m
Pixel Density	20 pixels/m
Pixel Pitch	50 mm
LEDs per Pixel	6

CONTROLLER COMPATIBILITY

KG3 24V PXL CTRL

sACN, Art-Net, or DMX control for full show integration

KG3 MAGIC CONTROLLERS

Remote control and WLED configuration for standalone or wireless operation

KG3 LLC · kg3.io · info@kg3.io · Nashville, TN

Specifications subject to change without notice

Cable Name	Type	Length
DS1-1	PIXEL	30'0"
DS1-2	PIXEL	30'6"
DS2-1	PIXEL	30'0"
DS2-2	PIXEL	30'6"
DS3-1	PIXEL	30'0"
DS3-2	PIXEL	30'6"
DS Pickup -1	BLACK	14'0"
DS Pickup -2	BLACK	14'0"
US4-1	PIXEL	28'4"
US4-2	PIXEL	21'10"
US5-1	PIXEL	28'4"
US5-2	PIXEL	21'10"
US6-1	PIXEL	28'4"
US6-2	PIXEL	21'10"
US Pickup -1	BLACK	14'0"
US Pickup -2	BLACK	14'0"
USR1-1	PIXEL	16'0"
USR1-2	PIXEL	16'0"

Cable Name	Type	Length
USR1-3	PIXEL	16'0"
USR Pickup -1	BLACK	14'0"
USR2-1	PIXEL	16'4"
USR2-2	PIXEL	16'4"
USR2-3	PIXEL	16'4"
USR Pickup -2	BLACK	14'0"
Audience 1-1	PIXEL	26'2"
Audience 1-2	PIXEL	33'4"
Audience 1-3	PIXEL	33'5"
Audience 2-1	PIXEL	27'2"
Audience 2-2	PIXEL	33'7"
Audience 2-3	PIXEL	33'5"
Audience Pickup 1	1' Black Cable	26'0"
Audience Pickup 2	1' Black Cable	30'0"
Audience Pickup 3	1' Black Cable	28'10"



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Equipment Manifest and Replacement Values

Doc #: KG3-26-BEA-MANIFEST-01 **Project:** Beabadoobee: Powerlines NA Tour - Hired-in LED Package — 09/02/2026

HIRED-IN EQUIPMENT OWNER KG3 LLC 401 E Trinity Ln, Suite 120 Nashville, TN 37207, USA Kenny Gay, kenny@kg3.io, (615) 904-5640	HIRER Beabadoobee: Powerlines NA Headline Tour Production Manager: Conor Houston Rehearsal + tour period, 2026	PACKAGE LED pixel rope scenic package: 24 show rope segments + spares, pylon controller rack, flown power injectors, cable, rigging Truck pack KG3-BEA-PACK-01 Rev D: 7 pieces 421 items, ~1,830 lb
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QTY	ITEM / SPECIFICATION · BRAND · MODEL · SERIAL	ORIGIN	UNIT LB	TOTAL LB	UNIT VALUE	TOTAL VALUE
R-01 TO R-04 (ROPE TRUNKS)						
17	LED pixel rope, 10 m piece KG3 LumiRope 360 HD, 22 mm round black silicone, 24 V WS2811, 120 LED/m, 20 px/m, IP67. Cut to show length, NL4 terminated both ends, tested, labeled, rigging points fitted KG3 / LEDODM · NL-Ws2811-120-D22 · NSN	China	9.7	165	\$900	\$15,300
7	LED pixel rope, 11 m piece Same product, 11 m stock length KG3 / LEDODM · NL-Ws2811-120-D22 · NSN	China	11	74	\$990	\$6,930
9	LED pixel rope, 5 m piece Same product, 5 m stock length KG3 / LEDODM · NL-Ws2811-120-D22 · NSN	China	5.0	45	\$500	\$4,500
R-01 to R-04 (rope trunks) subtotal				284		\$26,730
RACK						
1	Pylon pixel controller rack, complete assembly SKB 4U rolling shock rack with 4x Advatek PixLite A4-S Mk3 controllers (A to D, Australia), 2x Mean Well UHP-1500-24 power supplies (Taiwan) on Middle Atlantic U3V shelf, DIN fused DC distribution, TRUE1 + etherCON input plate, NL8 + NL4 output plate, custom fabricated panels, internal wiring. Assembled by KG3, Nashville KG3 / SKB · 3SKB-R04U20W · Controller S/N: see note	USA (assembled)	70	70	\$9,500	\$9,500
RACK subtotal				70		\$9,500
CASE A						
1	Spare pixel controller (CTRL E) Advatek PixLite A4-S Mk3, boxed road spare Advatek · PixLite A4-S Mk3 · S/N: see note	Australia	2.0	2.0	\$600	\$600
10	PWR-NJCT flown 24 V power injector Mean Well HLG-600H-24 PSU (Taiwan) in KG3 enclosure, TRUE1 in, NL4 out, Apache 2800 case + cheeseborough. KG3 built (7 in service + 3 spare) KG3 · PWR-NJCT · NSN	USA (assembled)	12	120	\$850	\$8,500
9	Y-3 Wye, molded 12/3, NL4 on every leg Injection tee kits (6 in service + 3 spare) AllBulbs / KG3 · Y-3 NL4 · NSN	USA (assembled)	1.8	16	\$75	\$675
12	Y-2 Wye, molded 12/3, NL4 on every leg Injection tee kits (9 in service + 3 spare) AllBulbs / KG3 · Y-2 NL4 · NSN	USA (assembled)	1.4	17	\$60	\$720

QTY	ITEM / SPECIFICATION · BRAND · MODEL · SERIAL	ORIGIN	UNIT LB	TOTAL LB	UNIT VALUE	TOTAL VALUE
9	NL4 jumper 20 in, 12/3 Injection tee kits (6 in service + 3 spare) KG3 · NL4 12/3 · NSN	USA (assembled)	0.6	5.4	\$25	\$225
2	NL4 jumper 64 in + 104 in, 12/3 AP1 and AP2 columns KG3 · NL4 12/3 · NSN	USA (assembled)	1.5	3.0	\$45	\$90
6	NL4 straight, 12/3, 5 to 13 ft To the last run on each column (3 in service + 3 spare) KG3 · NL4 12/3 · NSN	USA (assembled)	1.8	11	\$45	\$270
9	NL4 injector feeder, 12/3, 10 to 45 ft PWR-NJCT to Wye 1 (7 in service + 2 spare) KG3 · NL4 12/3 · NSN	USA (assembled)	4.0	36	\$70	\$630
4	NL4 jumper 5 ft, 12/3 Spare KG3 · NL4 12/3 · NSN	USA (assembled)	1.0	4.0	\$35	\$140
CASE A subtotal				214		\$11,850
CASE B						
8	NL8 pixel data + power cable, 16/6, ~60 ft Rack to group trunk, Neutrik NL8 both ends, KG3 built (5 in service + 3 spare) KG3 / Neutrik · NL8 16/6 · NSN	USA (assembled)	14	112	\$350	\$2,800
8	NL8 to 2x NL4 splitter KG3 built (5 in service + 3 spare) KG3 / Neutrik · NL8-2xNL4 · NSN	USA (assembled)	1.5	12	\$150	\$1,200
37	NL4 feeder 20 ft, black Rack singles + gutter runs KG3 / Neutrik · NL4 20 ft · NSN	USA (assembled)	3.0	111	\$55	\$2,035
8	NL4 feeder 10 ft, black KG3 / Neutrik · NL4 10 ft · NSN	USA (assembled)	1.5	12	\$40	\$320
8	NL4 cable 25 ft Neutrik · NL4 25 ft · NSN	China	3.5	28	\$45	\$360
28	speakON NL4MMX coupler barrel Bagged Neutrik · NL4MMX · NSN	Liechtenstein	0.1	2.8	\$14	\$392
100	22 mm rope rigging ring Two-piece steel shaft collar, 22 mm bore, 2x M6 eyebolt (lift + safety), 5/8 in eye (76 in service + 24 spare). KG3 built and fitted KG3 / Stafford · 19LM022ST · NSN	USA	0.7	70	\$45	\$4,500
120	18 in rated lighting safety cable, black Two bins Generic · 18 in safety · NSN	China	0.1	18	\$8	\$960
CASE B subtotal				366		\$12,567
ROAD CASES						
4	ProX TruckPaX utility trunk, 24.5 x 30.5 x 36 in Rope trunks R-01 to R-04, dividers ProX · XS-UTL243036W MK2 · NSN	China	115	460	\$600	\$2,400
2	ProX TruckPaX utility trunk, 48 x 30 in CASE A (48 x 30 x 36) + CASE B, adjustable dividers and tray ProX · XS-UTL4830xxW MK2 · NSN	China	183	366	\$800	\$1,600

QTY	ITEM / SPECIFICATION · BRAND · MODEL · SERIAL	ORIGIN	UNIT LB	TOTAL LB	UNIT VALUE	TOTAL VALUE
2	Plywood stacking board, 49 x 31 x 3/4 in One per utility trunk lid KG3 · board · NSN	USA	35	70	\$40	\$80
Road cases subtotal				896		\$4,080
421	TOTAL, all hired-in KG3 equipment (USD)			1,830		\$64,727

BASIS OF VALUES AND ORIGIN

- Values are replacement cost new in US dollars, delivered to Nashville, including custom termination, assembly, and design, fabrication and test labor on KG3-built items. They are not rental rates.
- LED rope is custom manufactured to order for this production (factory lead time plus air freight, customs and duty), then cut, terminated, tested and labeled by KG3 and fitted with rigging points. The stated value is the cost to reproduce a like-for-like piece on an expedited basis.
- Country of origin: rope, cases, safeties and Neutrik stock cable as manufactured. Cable assemblies, injectors, splitters, Wye kits, rigging rings and the controller rack are assembled by KG3 in Nashville, USA from imported components (Neutrik connectors, Liechtenstein; Mean Well supplies, Taiwan; Advatek controllers, Australia).
- Serial numbers: the five Advatek PixLite A4-S Mk3 controllers carry serials, provided separately for the carnet on request. All other items NSN (no serial number). Weights are per unit, approximate, without case.
- Spares travel with the package and are included above. Production-supplied items (winches, retractors, chain motors, TRUE1 power feeds, etherCON data feed) are not KG3 equipment and are not listed.
- Manifest matches KG3 truck pack KG3-BEA-PACK-01 Rev D (Sep 1, 2026). An editable spreadsheet in the touring manifest layout (case ID, brand, model, colour, origin, dimensions, serial, weights, value, owner) accompanies this sheet.



Contacts and fill-in

Write in the numbers you get on site. Live pages: bea.kg3.io/chance (company PIN), os.kg3.io for the shop.

Name	Role	Phone	Email	Notes
Kenny Gay	KG3, owner / designer	(615) 904-5640	kenny@kg3.io	
Chance Robison	KG3 touring LED tech (stays with the tour)			
Tanner Lunn	KG3, drives delivery Sep 18			
Harper Lunn	KG3 shop			
Conor	Production			
Josh Slade	Production / SWR schedule			
Josh Dirks	LMG			
LMG on-site lead				
Venue / stage manager				

Delivery

Fri Sep 18 2026, 10:00 AM sharp, on site 9:45. 5600 E Division St #104, Mt. Juliet TN 37122. 6 pieces: R-01, R-02, R-03, R-04, CABLE, RACK.

Issues found on site (write here, photograph, tell Kenny)