

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.