



Instructions for the Atlas Signal Attachment Cable Dual 4-pin Harness DIY Kit - Item #70 000 051

The Atlas Signal Attachment Cable, dual 4-pin harness DIY set (Item # 70 000 051) is used for custom wiring projects, or to attach a third-party signal to the Atlas Universal Signal Control Board (Item # 70 000 046) through the Signal Attachment Cable (Item # 70 000 050). This kit contains two pre-made wire harnesses which should be connected to the lead wires of your signal as shown below. While most standard 2 or 3 color signal heads will only require the use of one harness (with the Black, Red, Green, and Yellow leads), signals with additional lights or some custom projects will require both for proper operation. Please read the documentation on the Atlas website (www.atlasrr.com) for information on the Signal Attachment Cable, control of the different functions in the matrix below, and integration with additional components of the All Scales Signal System.

Wire Colors, Mini Plug Designation, and Functions for General Signal Head Wiring		
Wire Color	Mini Plug	Function
Grey	2	Spare (future expansion)
Orange	2	Home Light
Black	1	Common / Ground
Red	1	Red LED
Green	1	Green / Flashing Green LED
Yellow	1	Yellow / Flashing Yellow LED
Blue	2	PRR Center Light
Brown	2	Lunar White Light

You should consult the documentation provided by the manufacturer of your signal to attach the leads from the DIY kit to the wires of the signal head(s) appropriately for the specific signal prototype behavior, wiring configuration, and load. Be sure to run all signal lamp "commons" to the black wire regardless of whether you are using common cathode or common anode wiring. If any extra protection resistors are desired, please wire them between the mini plug and the signal head. The voltage as supplied from the Universal Signal Control Board is 5V DC at 25mA before passing through a hardwired 3.3k ohm resistor, so additional resistors may not be required.