

SYSTEM CABLE KIT

Art. No. 3420

In the Dataton system, control signals are transmitted between units through a bus system of optically isolated electronic parts inside each control unit and high quality SYSTEM CABLE.

Dataton SYSTEM CABLE is available in standard lengths of 0.4m, 1m, 2m and 5m. If you need a different length cable, you can use the SYSTEM CABLE KIT to make your own.

Each SYSTEM CABLE KIT contains 100m of high quality, non-PVC cable and 10 pairs of connectors.

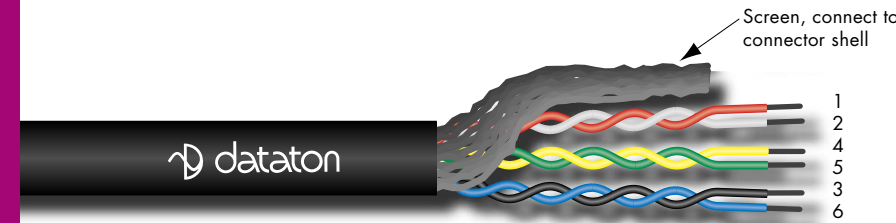
USAGE

The SYSTEM CABLE KIT consists of 100m of cable and 10 pairs of connectors.

To use the kit, first cut the cable to the required length. Strip about 20mm (3/4") of the outer covering off either end of the cable using a sharp knife or cable stripper. Take care not to cut too deeply! Unwind the screen and twist it. Dismantle each of the six wires about 3mm (1/8"), and then twist the strands.

Put the connector shells onto the cable. Solder the strands and the screen according to the illustration below and the pin number markings inside each connector. The screen must be soldered to the solder tab in the connector's housing.

Mount the cable grip upside down. This secures the cable mechanically. Tighten the screws firmly, but not too hard.



IMPORTANT

SYSTEM CABLE is used to supply power to MIC3+ and AIRLINK RECEIVER so the maximum length when connected to any of these units is 25m. SYSTEM CABLE may also, on occasion, be used to supply power to TRANSPAX+ or MICTOUCH. The maximum cable length is then 25m.

In all other cases, up to 100m of SYSTEM CABLE can be used between units.

Technical Description

The Dataton control system works on a daisy-chain principle with control units linked by SYSTEM CABLE. SYSTEM CABLE carries cue data from one control unit to the next. It runs from the first control unit's OUT connector to the second unit's IN connector, and so on.

The cable itself consists of a screen and three twisted wire pairs. One of the twisted pairs carries cue data from the data source to the control units; one is used for data feedback from control units; and one is used to handle power distribution.

The insulating material used in the cable is non-PVC and flame retardant. It is extremely resistant to mechanical and thermal stress.

The outer diameter of the cable is 4.5mm-5.0mm (0.175-0.2") and the outer cable jacket is black. The wire gauge is AWG 24.

The 6 pin female connector plugs into the control unit's **DATA IN** port. The 6 pin male connector plugs into the **DATA OUT** port.