Extending the Axis Camera Heater Power Supply cable

Introduction

This document provides details to consider when there is a need to extend the AXIS Camera Heater Power Supply cable.

Requirements for Q6100-E/Q6010-E

It is possible to extend the cable from the Axis Camera Heater Power Supply, if the required power/voltage at the camera is fulfilled, as follows:

- Connector type at the Q6100-E/Q6010-E: "M8 Male Connector 3pin" (see picture)
- Voltage at the camera during operation: 24 VDC +/-4V
- Maximum current is 3.125 A
- Cables able to deliver the current

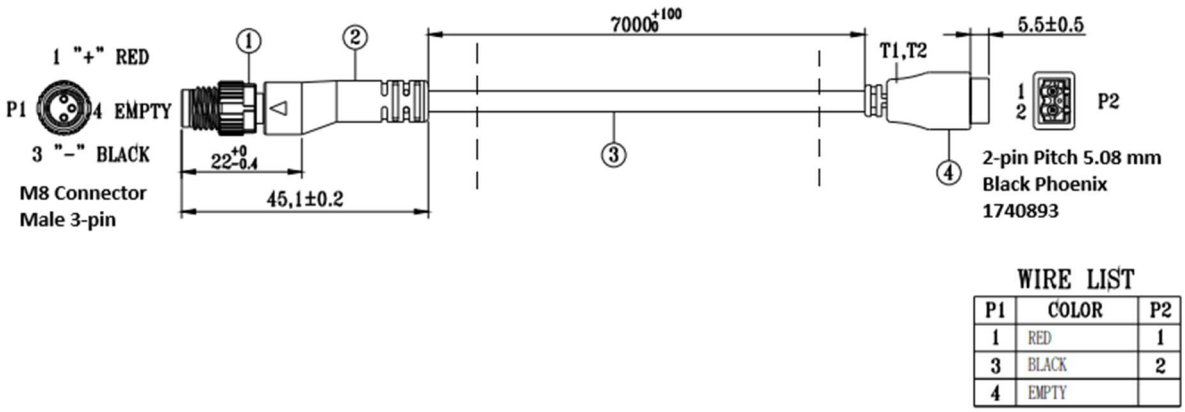

Fig 1: The output cable of the Axis Camera Heater Power Supply

Recommendation for extending the cable

- Cut the 7m (23ft) cable 3 (Fig 1) as close to connector 4 (Fig 1) as possible while leaving enough length to connect the extension cable.
- To maintain the IP66 rating of a mounted assembly, connector 2 (Fig 1) and cable 3 (Fig 1) should remain intact and long enough to reach the necessary splice point within the respective housing.
- Please leave the Power supply cable intact. It contains a ferrite placed there for compliance reasons. Only cut the 7 m (23 ft) extension cable 3 (Fig 1).
- Connect another cable than the 7 m (23 ft) cable 3 (Fig 1).
- The extended cable shall not have a resistance higher than 0.64 ohm in total.
- For example:

  A cable like https://docs.rs-online.com/cf9b/0900766b815dab54.pdf

have a resistance of 18.2 ohm/1000 m (3280 ft).
This is equal to 0.018 ohm/m (3.28 ft).
This gives us a 35 m maximum cable length (35 x 0.018 = 0.63 ohm).
If you need longer cable you must have a cable with lower resistance per m (ft).

- As always, it is the responsibility of the installer to be aware of the requirements and calculations to determine the correct cable is used and installed properly.
- Not adhering to specifics outlined above may result in voiding the warranty of the AXIS Camera Heater Power Supply as well as damaging the AXIS Camera.