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Notes

1. Picture attached at end of this document as Figure 1.
2. twisted pair ignored due to short length
3. termination resistors ignored due to short length
4. happy to modify cable if someone can show up with a standard to follow.

Cable Assembly

Parts List

For convenience we use a 3-pin Molex connector. It's got 3 wires, it's easy to fabricate with a crimp tool you can buy in an electronics parts shop, and you can get the components in kits. We use the Waldom 1625-3PRT kit (brand is Molex.) This is the .062 inch pin format. The point is to show up to an interop event (or a job site) with interoperable connectors. Automotive-grade connectors would also work. (And there's a 2-wire version too so the same tools/parts can make 12 vdc power cables for many panels and readers.)

4x 3pin male molex
4x 3pin female molex
pins for each (assume you will mess up a few, get extras)
20 gauge solid core wire. red, white, black.

Tools List

pin crimp tool
wire stripper

Cable Harness Assembly

build 4-drop cable.
note 2 inner drops hav double the wires in the crimp.

cut cable 3x 0.3 meter lengths r,w,b
strip 3/16 inch each

about pins:

male pins go in female shell
female pins go in male shell

about wiring the connector:

red - pointy end
white - middle
black - square end

for inner connectors
insert 2 stripped cables in pin; crimp; insert in shell
for outer connectors
insert stripped cable in pin; crimp; insert in shell

Device Cable Assembly

for pigtails:
red is tx+
white is tx-
black is ground

Device Power Cable

power cables:

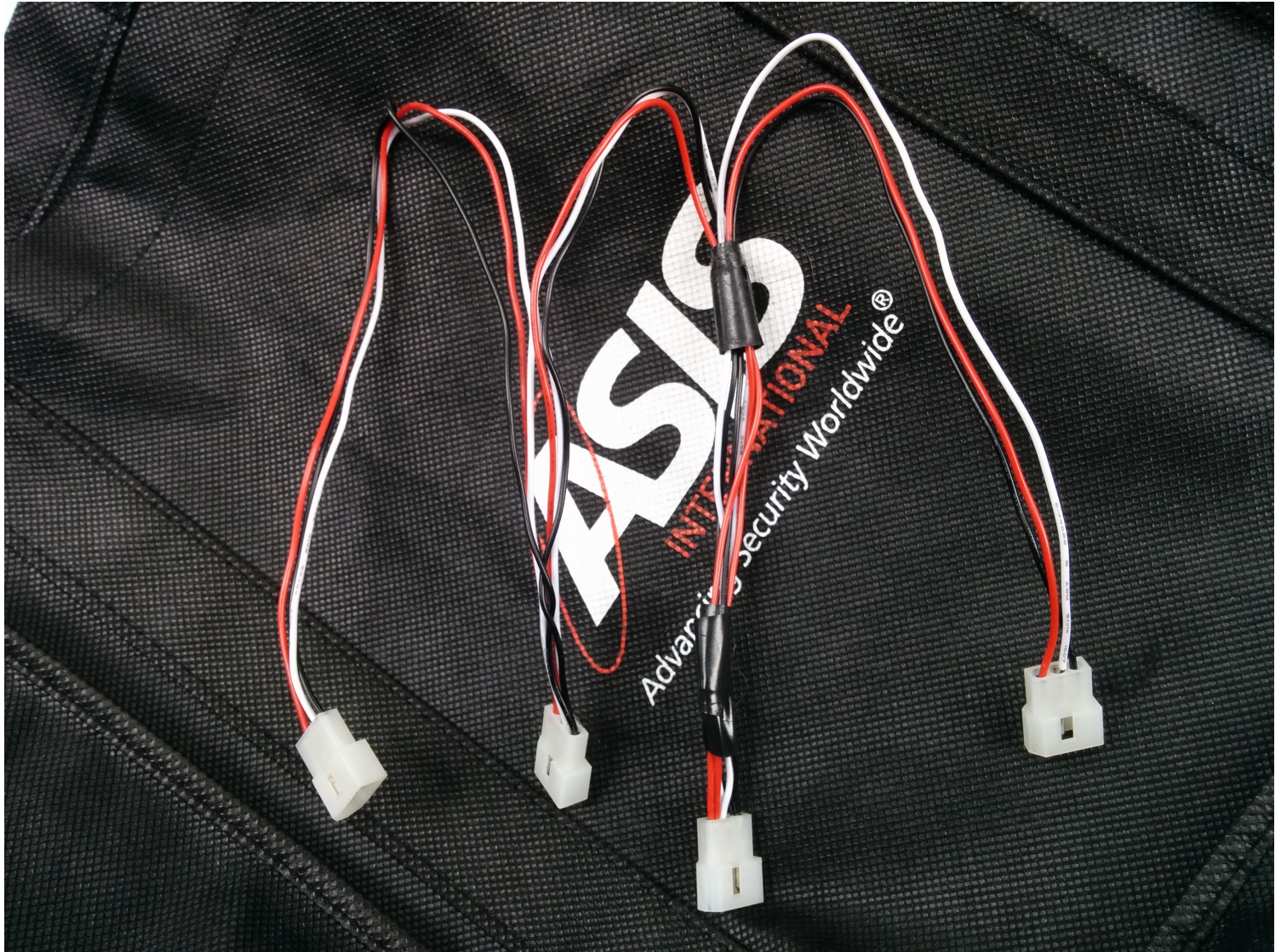
2-pin

DUT gets female shell

red is +12

black is -12 / ground

Figure 1 OSDP Interop Cable



Appendix

A. Colophon

Part of libosdp.

Revision History

added specific part numbers for Molex connectors.