# **ANNEX ENGINEERING – K3 Carabiner Harness**

**Prepare Wire** 

#### A-End **B-End Not To Scale** Molex Microfit (Female) Molex Microfit (Female) Crimp: 430300001 Crimp: 430300001 Gauge (AWG) Color Length (mm) Quantity Black 600 26 10 600 22 1 Brown 20 3 Green 600 1 620 26 Red Yellow 620 26 1

## Twist Wires Together - Impediance = 90-100 Ohms





Issue: 2

Date: September 21<sup>st</sup> 2022

Author: BMW

#### Notes

#### **Prepare Wires**

- Wire, must be to IGUS CF5 standards or equivalent.
- Prepare 16 wires, as specified in Table
- Cut wire to length, as specified in Table
- Fit Molex Microfit crimp 430300001 to each end
- Crimp all pins per official Molex specifications
- No substitutes unless approved by ANNEX Engineering

#### **Twist Wires**

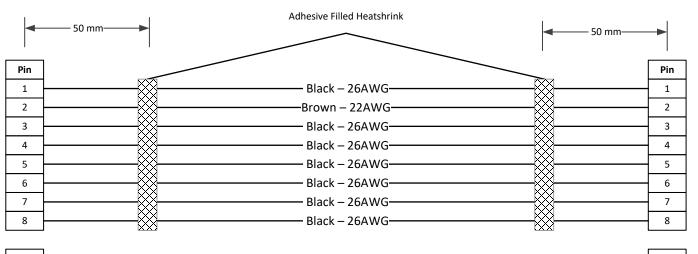
- Twist the Yellow and Red pair of wires together such that the impedance is equal to 90-100 ohms.
- Post Twist Length should equal 600mm +/-2mm

#### History

- First Revision
- Second Revision: Add Note about color of sleeving and heatshrink

# **ANNEX ENGINEERING – K3 Carabiner Harness**

### **Final Assembly**





Molex Microfit (Housing - Female)

Crimp: 430251600

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#### Notes

### **Final Assembly**

- Pass All cables through black braided, fire retardant sleeving, while placing a piece of black adhesive filled heatshrink on each end
- Fit each end in Molex Microfit Housing PN: 430251600 as labelled
- Pins must be installed per molex specifications into the housing
- No substitutes unless approved by ANNEX Engineering

Molex Microfit (Housing - Female) Crimp: 430251600