To: Joanne Ducharme, Mike Konkel, Mike Woyczik

From: Larry Basegio

**Subject: 3-Terminal Connectors for the SparkMax/NEOS** 

Date: 4 November 2019

## Summary

While the 10-gauge crimp connectors work as advertised, it does make the changing of a motor or motor-controller difficult as the leads for either tend to get shorter and shorter with time. A possible solution is to permanently mount a connector to the motor controller and install a mating connector to the wires that connect to the actual motor. One might also consider doing the same to the motor itself for ease of motor changes, etc. The consequence of this is that it could require (depending on the gender chosen for the motor and controller) an additional cable when the controller and motor are at distance from one another. The parts listed below would allow the group to evaluate this approach.

Total:

66.33

## **Component Detail**

Vendor: Waytek (www.waytekwire.com)

Metri-Pack Series 630 3-Terminal Connector, current rating 46 amps.

Description	Part #	Quantity	Price (total)
Female Housing	38133	20	18.08
Male Housing	38132	20	13.52
Cable Seal	39018	100	10.20
Male Terminal	32084	25	7.95
Female Terminal	32079	25	16.58

## **Useful Links**

Spark Max Controller: http://www.revrobotics.com/rev-11-2158/

NEOS Motor: http://www.revrobotics.com/rev-21-1650/

## **Revision History**

5 November 2019: Added links for hardware/software info for SparkMax and NEOS motor.