

Project Number: _____ Project Location: _____ Date: _____

ITS CABLE AND CONDUCTOR TEST

Physical and Electrical Inspection Completed? Inspector Name:	Yes / No	Date:
Integrator Name:		
Integrator Phone and e-mail:		
Contractor Name:		
Contractor Phone and e-mail:		
Notes:		

Cable Length _____ (Feet)

Objective:

1. To verify that all cables and conductors are in acceptable condition.

Test Equipment:

1. Digital multi-meter with 20,000 ohms per volt or greater input impedance
2. Megger with 250 V, 500 V, and 1000 V range; Insulation resistance range 20 Giga ohms

Success Criteria:

1. All wires feature end-to-end continuity
2. There are no short circuits to ground
3. The cables are in good physical condition
4. Conductor resistance is to be calculated with reference to NEC Chapter 9 Table 8
5. Cable slack in junction box shall be 36 inches

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Test Procedure:

Procedure Description	Calculated	Measured	Results Pass/Fail
Physically inspect all cables. Look for any discontinuities such as opens, shorts, crimps, or defects. (OK if no physical damage, otherwise BAD)			
Use the audible continuity checker of the digital multi-meter to verify continuity from each connector pin to the corresponding cable end. Note overall result. (OK or BAD)			
Calculate the resistance for each conductor, NEC Chapter 9 Table 8. Measure the resistance for each conductor. Compare measured to calculated values. OK if not more than 10 ohms per 1000 feet, otherwise BAD			
Measure the insulation resistance between the conductors and between each conductor, ground, and shielding using the megger. Note result. (OK >500 mega ohms, otherwise Bad)			

Test Completed by:

Date:

Witness:

Signature

Signature

Print Name

Print Name