



Clark County Department of Building & Fire Prevention

Building Division – Inspection Services

Field Inspection Guideline

SUBJECT: Low Voltage Wiring	FIG-E-034	
<i>Effective Date:</i> July 15, 2012	<i>Revised:</i> March 17, 2015	<i>Approved By:</i> BAT
Code Chapter: NEC Article 725 & CCBAC 22.02.200	Page 1 of 1	

Interpretation: Low voltage wiring installation requiring a permit as outlined in the CCBAC 22.02.200 shall comply with the Article 725 and those of Article 300 referenced in Article 725.

Field Application: Below are pertinent code related issues that apply to low voltage inspections:

- **NEC 725.3** Only those sections of Article 300 referenced in this article shall apply to Class 2, Class 3 circuits that are part of a five warning system, control wiring for emergency power, and/or smoke control.
- **NEC 725.3 (A)** Number and size of conductors in raceway. [300.17]
- **NEC 725.3 (B)** Fire-stopping. [300.21]
- **NEC 725.3 (C)** Plenum-rated spaces [300.22]
- **SNA IBC 717.5** Low voltage wiring installed in concealed spaces of a Type I or Type II Building shall be plenum-rated unless installed in metal raceways or metal armor.
- **NEC 300.22** Plenum-rating wiring methods are not required in Type III, IV & V construction except in plenum-rated spaces.
- **NEC Table 725.179** Cable designations: “CL” is Class, may be CL1, CL2, or CL3; “R” is for riser-rating, may be CL2R or CL3R; “P” is for plenum-rating, may be CL2P OR CL3P; “X” is for general purpose use, may be CL2X or CL3X and is permitted in 1 & 2 family dwellings only; PLTC is Power Limited Tray Cable. Permitted substitutions are in NEC Table 725.154 (G).
- **NEC 725.41 (A), 725.41 (B)** Class 1 may be power-limited (30V & 1000VA max.) or Remote-control and Signaling, up to 600V.
- **NEC 725.179 (G)** Class 2 insulated to 150V and Class 3 insulated 300V.
- **NEC 725.179 (L)** Voltage ratings shall not be marked on the cable.
- **NEC 800.24 – FPN** Installations shall comply with the Manufacturers Installation Instructions based on accepted industry standards as described in ANSI/NECA/BICSI.

Revision History:

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