

Understanding Article 725

Three Types of Circuits					
Class 1			Class 2		Class 3
Power Limited (725.1 FPN) "Usage and electrical power limitations that differentiate them from electric light and power circuits"	Remote-control Circuit (100 definition) Any electric circuit that controls any other circuit through a relay or similar	Signaling Circuit (100 definition) Any electric circuit that energizes signaling equipment	Power Limited Circuit (725 definition) Power limited to provide safety from fire and acceptable protection from shock		Power Limited Circuit (725 definition) Power limited to provide safety from fire, due to higher voltage and current, additional safeguards to provide protection from shock
Voltage limit	30V maximum	600V maximum		Up to 30V	Over 30V
Power limit	1000 VA	Not limited		5 x Vmax	Not more than 100 VA
Wiring	Part I of Article 300 Chapter 3		Class 2 Cable Boxes not required		Class 3 cable Boxes not required
Overcurrent protection	18 AWG - 7A 16 AWG - 10A 14 AWG & larger - Per conductor ampacity		Limited by power supply		
Fill derating	Only if in raceway & when over 10% of ampacity		No requirement		
Share conduit, enclosure or raceway	Only if functionally related		Not with Power or Lighting Not with Audio Circuits OK with other Class 2 & 3, PL Fire Alarm, Optical Fiber, Telecommunications, CATV Allowed to connect with separation of 1/4"		
Number of conductors in a raceway	300.17 - Per raceway article		300.17 - Per raceway article		
Burial Depth	Table 300.5		No requirement		

Only parts of Art 300 referenced apply to Class 1, 2 and 3 Circuits
Note: Other exceptions and Articles may modify the above