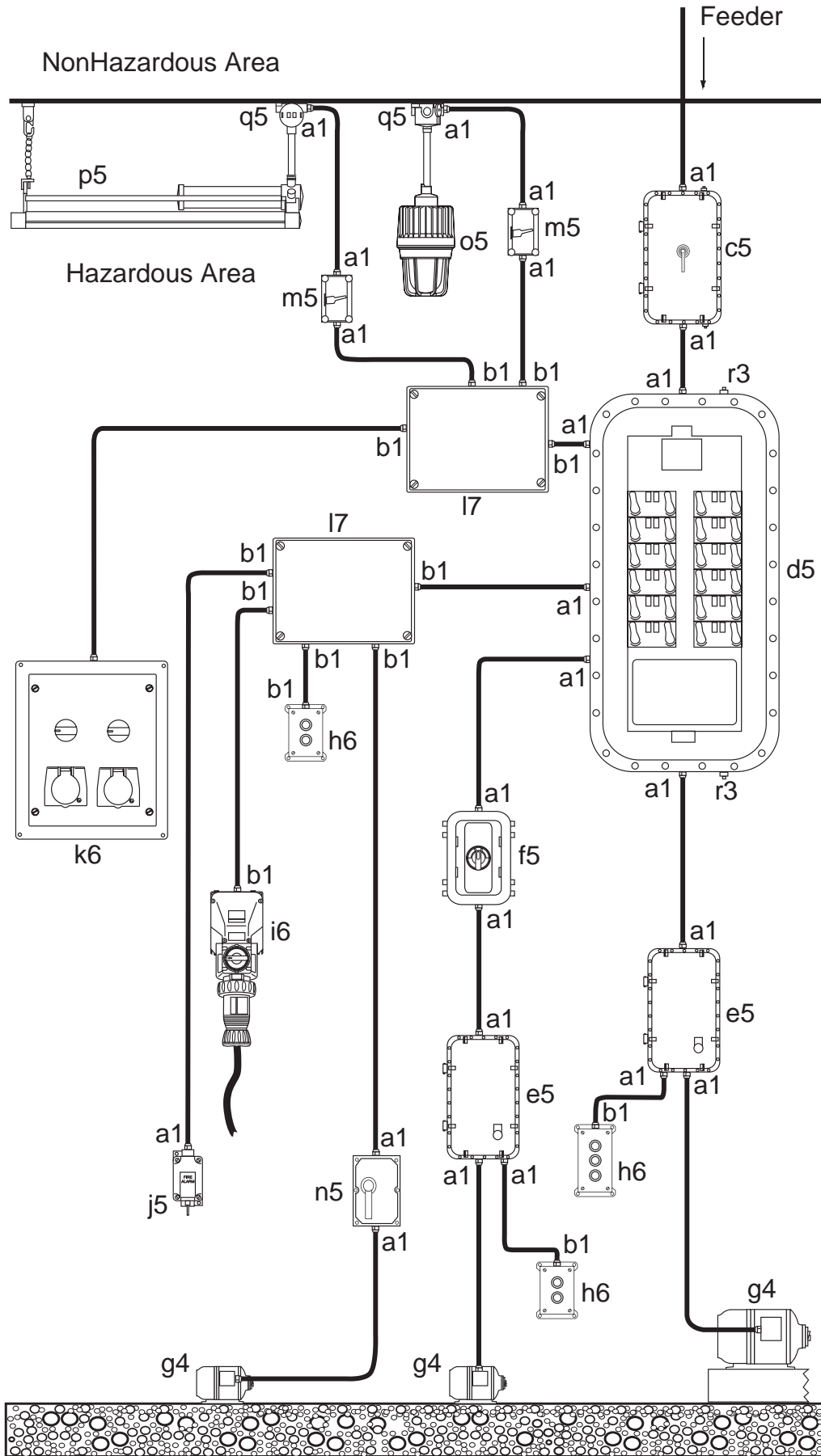


# Power & Lighting (Cable) Installation, Class I, Zones 1 and 2



Reprinted with permission from NFPA 70®-2011, *National Electrical Code*®, Copyright © 2010, National Fire Protection Association, Quincy, MA. This material is not the official position of the NFPA on the referenced subject, which is represented only by the standard in its entirety.

## Power & Lighting (Cable) Installation, Class I, Zones 1 and 2

### Product Key

- (a) Clencher CMX Explosionproof Metal Clad Cable Connector
- (b) Clencher CMC Metal Clad Cable Connector
- (c) B7C Prism Circuit Breaker
- (d) B7L/B7P Prism Panelboard
- (e) B7 Prism Magnetic line starter
- (f) B7NFD Disconnect Switch
- (g) Hazardous Location rated Motor
- (h) CS Series Stainless Steel Control Stations
- (i) VSI-FS Switched Plug and Receptacle
- (j) XAL Fire Alarm Station
- (k) Clean Room Receptacle Panel
- (l) Techneterm Terminal Boxes
- (m) XS Non Factory Sealed or FXS Factory Sealed Switch
- (n) XMSW, XSD, XSX, Non-Factory Sealed or FXSD, FXSX Factory Sealed Manual Motor Starting Switches
- (o) EZ, EML, EBF, EMM, EMS, or EMH Series LED, Fluorescent, or H.I.D. Lighting Fixture
- (p) HFX Series Fluorescent Lighting Fixture
- (q) XFH, HXB, JL, or JAL Series Fixture Hangers
- (r) KB1B Breather, KB1D Drain, or KDB-1 Combination Drain and Breather
- (s) MC Type Metal Clad Cable Installation XS Non Factory Sealed or FXS Factory Sealed Switch

### N.E.C. References

1. 505.16(B)(7) Cables Entering Enclosures. Cable seals shall be provided for each cable entering flameproof or explosionproof enclosures.
2. 505.15 (B)(b) MC-HL cable shall be terminated with listed for the application. According to 505.2, Increased Safety "e" does not produce arcs or sparks in normal application.
3. 505.16 (E)(a) Drainage Control Equipment. Where there is a probability that liquid or other condensed vapor may be trapped, approved means shall be provided to prevent accumulation or permit periodic draining of the liquid or condensed vapor
4. 505.22 Increased Safety "e" Motors and Generators. In Class I, Zone 1 locations, Increased Safety motors of all voltage ratings shall be listed for Zone 1 locations.
5. 505.9 (C)(1) Division Equipment. Equipment identified for Class I, Division 1 or Class I, Division 2 shall be permitted to be marked Class I, Zone 1 or Class I, Zone 2. These products are explosion-proof, listed for Class I, Division 1.
6. 505.8 (A) and (E). These products contain flameproof/explosion-proof switches with Increased Safety "e" terminals that are listed for Class I, Zones 1 and 2. These enclosures do not require a sealed cable fitting.
7. 505.8 (E) Increased Safety "e". The terminals inside these enclosures use the type of protection "e" that is permitted for equipment in Class I, Zone 1, or Zone 2 locations. Increased Safety "e" type of protection does not produce arcs or sparks under normal conditions. Additional measures are applied to increase security against the possibility of excessive temperatures or the occurrence of arcs or sparks.