partitioned by a grounded metal barrier from other non-intrinsically safe electric cables, or a shielded or metallic armored cable; and
(2) Not contain conductors for non-intrinsically safe systems.

(c) As part of plan approval, the manufacturer must provide appropriate installation instructions and restrictions on approved system components. Typical instructions and restrictions include information addressing—
(1) Voltage limitations;
(2) Allowable cable parameters;
(3) Maximum length of cable permitted;
(4) Ability of system to accept passive devices;
(5) Acceptability of interconnections with conductors or other equipment for other intrinsically safe circuits; and
(6) Information regarding any instructions or restrictions which were a condition of approval of the system or its components.

(d) Each intrinsically safe system must meet ISA RP 12.6 (incorporated by reference; see 46 CFR 110.10–1), except Appendix A.1.


§ 111.105–15 Additional methods of protection.

Each item of electrical equipment that is—
(a) A powder-filled apparatus must meet IEC 60079–5 (incorporated by reference; see 46 CFR 110.10–1);
(b) An oil-immersed apparatus must meet either IEC 79–6 (incorporated by reference; see 46 CFR 110.30–1) or Article 500.7(I) of NFPA NEC 2002 (incorporated by reference; see 46 CFR 110.10–1);
(c) Type of protection “e” must meet IEC 60079–7 (incorporated by reference; see 46 CFR 110.10–1);
(d) Type of protection “n” must meet IEC 60079–15 (incorporated by reference; see 46 CFR 110.10–1); and
(e) Type of protection “m” must meet IEC 60079–18 (incorporated by reference; see 46 CFR 110.10–1).