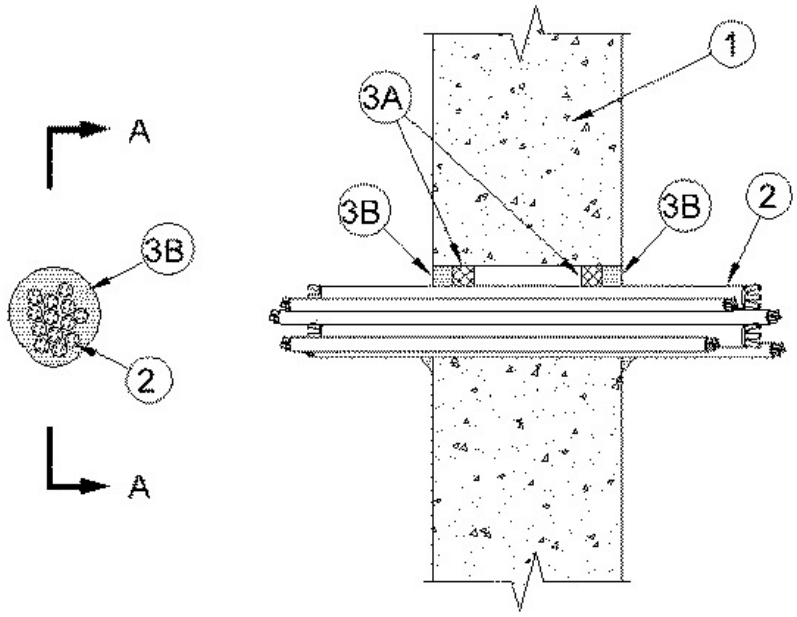
ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 and 2 Hr (See Item 1)	F Rating — 1 and 2 Hr (See Item 1)
T Rating — 1/2 and 1 Hr (1/2 (See Item 1)	FT Rating —1/2 and 1 Hr (See Item 1)
	FH Rating — 1 and 2 Hr (See Item 1)
	FTH Rating — 1/2 and 1 Hr (See Item 1)



SECTION 'A-A'

1. **Wall Assembly —** Min 4-7/8 in. and 6-1/8 in. thick lightweight or normal weight (100-150 pcf) concrete for 1 and 2 hr rated assemblies, respectively. Wall may also be constructed of any UL Classified **Concrete Blocks*.** Max diam of opening is 5 in.
See **Concrete Blocks** (CAZT) in Volume 1 of the Fire Resistance Directory for names of manufacturers.

The hourly T Rating is 1/2 hr and 1 hr for 1 and 2 hr rated assemblies, respectively.

2. **Cables —** Aggregate cross-sectional area of cables to be max 64 percent of the cross-sectional area of the opening. Cables to be tightly bundled and rigidly supported on both sides of wall assembly. The annular space between the cables and the periphery of opening shall be min 0 in. (point contact) to max 1-1/4 in. Any combination of following types and sizes of copper conductor cables may be used:

A. Max 3/C with ground, No. 12 AWG (or smaller) nonmetallic sheathed (Romex) cable with copper conductors, PVC insulation and jacket.

B. Max 1/C No. 350 kcmil (or smaller) copper conductor cable with cross-linked polyethylene (XLPE) jacket.

C. Max 7/C No. 12 AWG (or smaller) copper conductor power and control cables with XLPE or PVC insulation with XLPE or PVC jacket.

D. Max 400 pair No. 24 AWG copper telephone cables, with Polyvinyl Chloride (PVC) insulation and jacket.

E. Max 4/C No. 2/0 (or smaller) aluminum or copper conductor, aluminum or steel jacketed metal-clad or armored-clad cable.

F. Max RG/6 No. 18 AWG Type CATV copper conductor coaxial cable with Polyvinyl Chloride (PVC) insulation and jacket.

G. Max 3/C No. 2/0 AWG (or smaller) copper or aluminum conductor SER cables with PVC insulation and jacket.

H. Max RG59/U (or smaller) television coaxial cable with fluorinated ethylene insulation and jacketing.

I. Max 62.5/125 micron fiber optic cables with PVC insulation and jacket.

3. **Firestop System —** The firestop system shall consist of the following:

A. **Packing Material —** (Optional) — Mineral wool or fiberglass insulation or foam backer rod compressed and firmly packed into annular space from each end of opening and recessed 5/8 in. from each wall surface.

B. **Fill, Void or Cavity Material* - Sealant —** Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At point contact location, 1/2 in. diam bead of sealant applied at interface of cables and periphery of opening on both surfaces of wall.
RECTORSEAL — FS 900+ Sealant, Metacaulk MC 150+, Biostop BF 150+

*,+ Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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