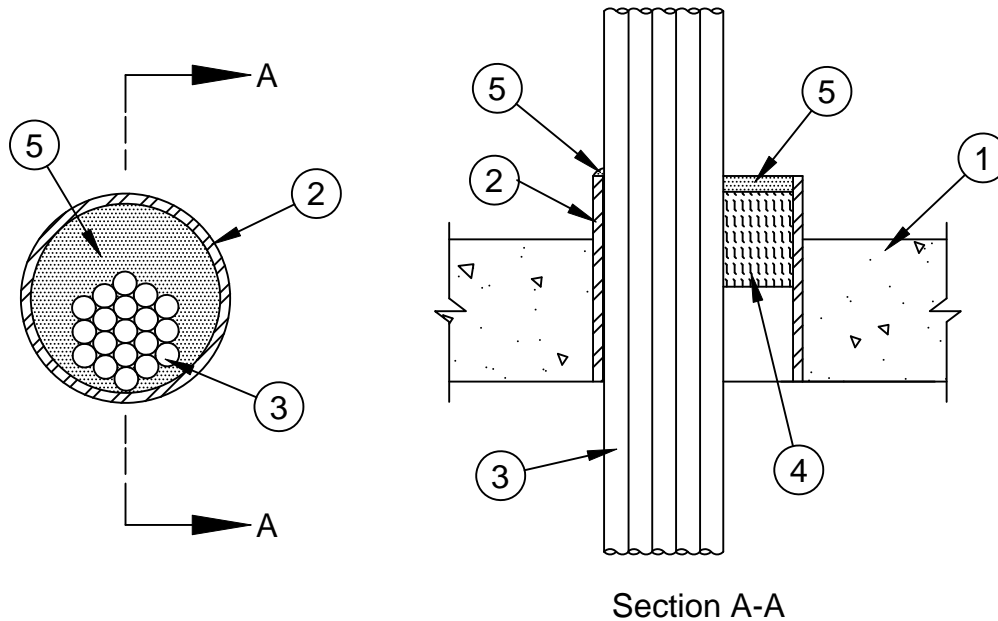


System No. C-AJ-3010

F Rating - 2, 3 and 4 Hr (See Item 5)
FT Rating - 0, 1/2 and 2-3/4 Hr (See Item 5)
FH Rating - 2, 3 and 4 Hr (See Item 5)
FTH Rating - 0, 1/2 and 2-3/4 Hr (See Item 5)



- Floor or Wall Assembly** - Min 64 mm (2-1/2 in.) or 114 mm (4-1/2 in.) thick reinforced lightweight or normal weight (1600-2400 kg/m³ or 100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete blocks***. Floor may also be constructed of any UL Classified hollow-core **Precast Concrete Units***. Max diam of opening is 152 mm (6 in.)

See **Concrete Blocks** (CAZT) and **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.
- Sleeve** - Nom 152 mm (6 in.) diam (or smaller) Schedule 10 (or heavier) steel pipe sleeve or nom 152 mm (6 in.) diam (or smaller) Schedule 40 polyvinyl chloride (PVC) pipe sleeve cast or grouted into floor or wall flush with floor or wall surfaces. Steel sleeve may be installed to project a max of 51 mm (2 in.) beyond the floor or wall surfaces.
- Cables** - Aggregate cross-sectional area of cables in sleeve to be max 45 percent of the cross-sectional area of the sleeve. See Item 5 for specific cable fill requirements. Tight bundle of cables to be installed in the steel sleeve. The annular space within the firestop system shall be a min of 0 mm (0 in., point contact) to a max of 51 mm (2 in.) In 4 hr fire rated assemblies, the annular space within the firestop system shall be a min of 6.4 mm (1/4 in.) to a max of 25 mm (1 in.) Cables to be rigidly supported on both sides of the floor or wall assembly. Any combination of the following types and sizes of cables may be used:
 - Max 400 pair No. 24 AWG (or smaller) copper conductor cable with polyvinyl chloride (PVC) jacketing and insulation.
 - Max 3/C No. 2/0 AWG (or smaller) aluminum or copper conductor service entrance cable with PVC insulation and jacket.
 - Max 3/C No. 2/0 AWG (or smaller) copper conductor PVC jacketed aluminum clad or steel clad TECK 90 cable.
 - Max 3/C No. 8 AWG (or smaller) nonmetallic sheathed (Romex) cable with copper conductors, PVC insulation and jacket.



Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876

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- E. Max 1/C 1000 kcmil (or smaller) copper conductor power cable with XLPE or PVC insulation and XLPE or PVC jacket.
 - F. Max RG59/U (or smaller) coaxial cable with fluorinated ethylene insulation and jacketing.
 - G. Max 62.5/48 fiber optic cable with PVC insulation and jacketing.
 - H. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with PVC insulation and jacket.
- 3A. **Through Penetrating Product*** - (Not Shown) - Max 4/C No. 2/0 AWG (or smaller) steel or aluminum **Armored Cable+ or Metal Clad Cable+** with copper or aluminum conductors. Diam of cable bundle (Item 3) including armored cable not to exceed 102 mm (4 in.) Through penetrating product to be rigidly supported on both sides of a floor or wall assembly.

AFC CABLE SYSTEMS INC

- 4. **Packing Material** - Min 51 mm, 76 mm or 102 mm (2, 3 or 4 in.) thickness of min 64 kg/m³ (4 pcf) density mineral-wool batt insulation tightly packed into opening as a permanent form for 2, 3 or 4 hr fire rated assemblies, respectively. Packing material to be recessed from top edge of sleeve or from top surface of concrete in cast concrete floor assemblies to accommodate the required thickness of fill material. Packing material to be recessed from both edges of sleeve or from both surfaces of assembly in walls and in floor constructed with hollow-core precast concrete units to accommodate the required thickness of fill material.
- 5. **Fill, Void or Cavity Material* - Sealant or Putty** - Min 13 mm (1/2 in.) thickness of fill material applied within the annulus for 2 and 3 hr F Ratings. Min 19 mm (3/4 in.) thickness of fill material applied with the annulus for 4 hr F Rating. In floors, fill material to be installed flush with top edge of sleeve or top surface of floor. In walls and in floor constructed of hollow-core precast concrete units, fill material to be installed flush with both ends of sleeve or both surfaces of assembly. F and T Ratings of firestop system are dependent upon the through opening size, thickness of concrete, sleeve type and percent cable fill, as shown in the following table:

Max Opening Diam	Min Concrete Thickness	Optional Sleeve Type	Cable Type	Percent Cable Fill	F Rating	T Rating
152 mm (6 in.)	63.5 mm (2-1/2 in.)	PVC	A to H, 3A	37	2 hr	0 hr
152 mm (6 in.)	63.5 mm (2 in.)	PVC	H	45	2 hr	0 hr
152 mm (6 in.)	63.5 mm (2 in.)	Steel	A to H, 3A	37	2 hr	0 hr
152 mm (6 in.)	63.5 mm (2 in.)	Steel	H	45	2 hr	0 hr
152 mm (6 in.)	114 mm (4-1/2 in.)	Steel	A to H, 3A	34	3 hr	1/2 hr
152 mm (6 in.)	114 mm (4-1/2 in.)	Steel	H	45	3 hr	1/2 hr
51 mm (2 in.)	114 mm (4-1/2 in.)	Steel	H	40	3 hr	2-3/4 hr
51 mm (2 in.)	114 mm (4-1/2 in.)	Steel	H	40	4 hr	2-3/4 hr

SPECIFIED TECHNOLOGIES INC - SpecSeal 100, 101, 102, 105, 120 or 129 Sealant. When min floor or wall thickness is 114 mm (4 1/2 in.), SpecSeal Putty may be used.

*Bearing the UL Classification Mark



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