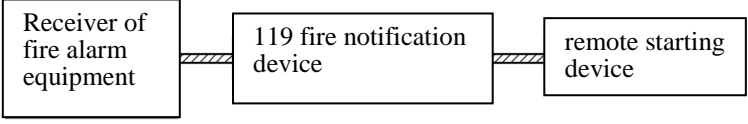
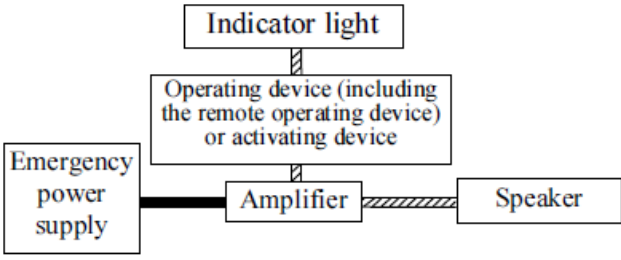
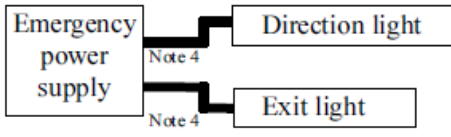
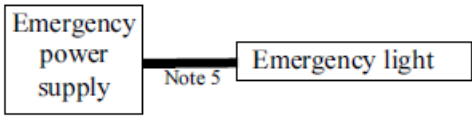
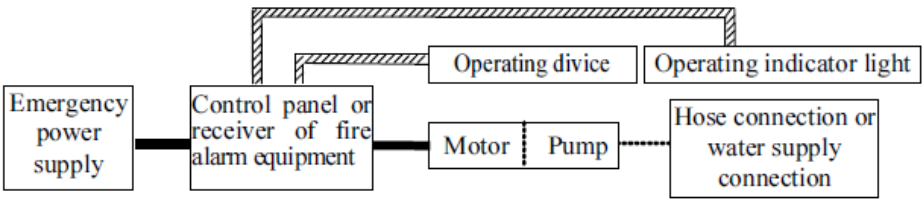
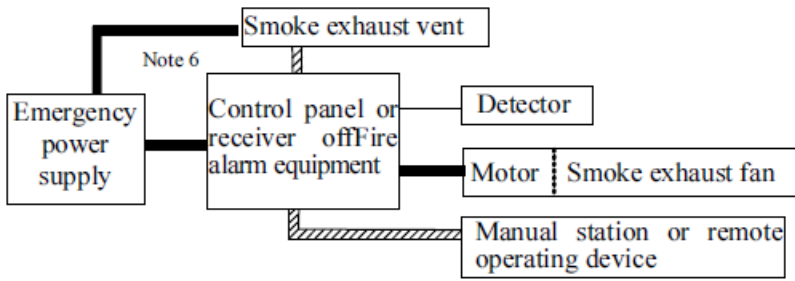
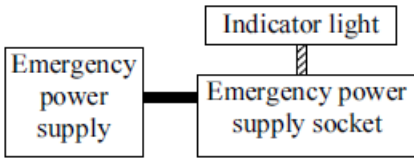
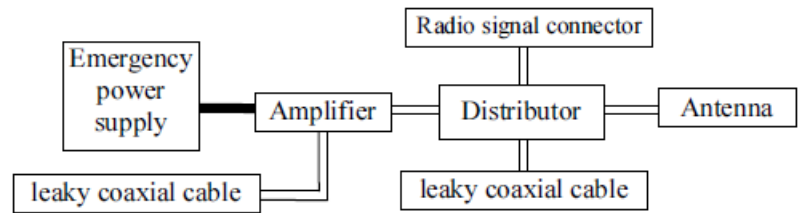


Equipment Type	Range of Fire-Retardant or Heat-Resistant Protection
1. Indoor (outdoor) hydrant and water-jet equipment	<pre> graph LR EPS[Emergency power supply] --- CPE[Control Panel or receiver of fire alarm equipment] CPE --- OIL[Operating indicator light] CPE --- M[Motor] CPE --- P[Pump] P --- OD[Operating device] OD --- FHH[Fire hydrant house] </pre>
2. Automatic sprinkler, water spray, foam water spray, and cooling sprinkler systems	<pre> graph LR EPS[Emergency power supply] --- CPE[Control Panel or receiver of fire alarm equipment] CPE --- M[Motor] CPE --- P[Pump] CPE --- RCL[Remote control switch] CPE --- AL[Alarm] CPE --- SSOIL[Supplementary sprinkler hydrant operating indicator light] P --- PD[Pressure detector] PD --- WFD[Water flow detector] </pre>
3. Carbon dioxide and dry chemical extinguishing systems	<pre> graph LR EPS[Emergency power supply] --- CP[Control Panel] CP --- ED[Exhaust device] CP --- D[Detector] CP --- ASD[Automatic shut-off device] CP --- POS[Power "On" Switch] CP --- SV[Solenoid valve] SV --- GC[Gas containers for system activation purpose] GC --- SC[Storage containers] CP --- SA[Sound alarms] CP --- RL[Release light] </pre>
4. Automatic fire alarm system	<pre> graph LR EPS[Emergency power supply] --- RFAE[Receiver of fire alarm equipment] RFAE --- FALB[Fire alarm bell] RFAE --- IL[Indicator light] RFAE --- FMS[Fire manual station] RFAE --- D[Detector] RFAE --- AFMS[Addressable Fire manual station] RFAE --- AD[Addressable detector] RFAE --- R[Repeater] R --- D2[Detector] R --- AD2[Addressable detector] RFAE --- FSEC[Fire safety equipment operating circuit] </pre>
5. Automatic gas leakage detecting fire alarm system	<pre> graph LR EPS[Emergency power supply] --- RFAE[Receiver of fire alarm equipment] RFAE --- ROD[Remote operating device] RFAE --- AOS[Amplifier operating system] AOS --- S[speaker] RFAE --- D1[Detector] D1 --- GLIL[Gas leakage indicator light] RFAE --- R[Repeater] R --- D2[Detector] </pre>

6. 119 fire notification device	 <pre> graph LR A[Receiver of fire alarm equipment] --- B[119 fire notification device] B --- C[remote starting device] </pre>
7. Emergency broadcasting system	 <pre> graph TD A[Emergency power supply] --- B[Amplifier] B --- C[Speaker] B --- D[Operating device including the remote operating device or activating device] D --- E[Indicator light] </pre>
8. Signs of exit and direction system	 <pre> graph LR A[Emergency power supply] -- Note 4 --- B[Direction light] A -- Note 4 --- C[Exit light] </pre>
9. Emergency lighting equipment	 <pre> graph LR A[Emergency power supply] -- Note 5 --- B[Emergency light] </pre>
10. Standpipes and dedicated firefighting water reservoir	 <pre> graph LR A[Emergency power supply] --- B[Control panel or receiver of fire alarm equipment] B --- C[Motor] C --- D[Pump] D -.- E[Hose connection or water supply connection] B --- F[Operating device] F --- G[Operating indicator light] </pre>
11. Smoke exhaust equipment	 <pre> graph LR A[Emergency power supply] -- Note 6 --- B[Smoke exhaust vent] A --- C[Control panel or receiver of fire alarm equipment] C --- D[Detector] C --- E[Motor] E --- F[Smoke exhaust fan] C --- G[Manual station or remote operating device] </pre>
12. Emergency power supply sockets	 <pre> graph LR A[Emergency power supply] --- B[Emergency power supply socket] B --- C[Indicator light] </pre>

13. Auxiliary wireless telecommunication equipment



Note 1: Where the fire manual station also serves as an operation device for other fire safety equipment, the fire manual station and the indicator light circuitry shall be heat-resistant.

Note 2: The repeater (also referred as the module) emergency power circuit: Where the repeater contains built-in batteries, regular wiring shall be permitted.

Note 3: The repeater control circuit shall be permitted to be heat-resistant.

Note 4: Where sign systems contain built-in batteries, regular wiring shall be permitted.

Note 5: Where incombustible construction materials are used for ceiling and base panel, heat-resistant protection shall be permitted. Where the emergency lights contain built-in batteries, regular wiring shall be permitted.

Note 6: Where an external emergency power source is necessary to keep vents in opening condition after being opened, the emergency power supply circuit shall be flame-retardant.

Remarks: 1. Devices obtaining emergency power from the receiver of fire alarm equipment or control panel shall be flame-retardant; the control circuits thereof shall be heat-resistant.

2. The wiring connecting the disaster monitoring and controlling system of the Disaster Prevention Center to the fire safety equipment shall be heat-resistant. The wiring connecting said monitoring or operating devices to the emergency power supply shall be flame-retardant. However, where the receiver of fire alarm equipment, amplifier, and operating devices are installed inside the Disaster Prevention Center, regular wiring shall be permitted for the wiring within the center premises.

3. **—** : flame-retardant ; **▨** : heat-resistant ; **▬** : coaxial cable ; **—** : regular wiring ; **-----** : pipes °