**Background of its development**

Up to now, GF system has been well recognized by markets of many countries and showing good penetration. We are glad to hear reputation for this product and praise from many representative and distributors. We would like to tell you our appreciation having this opportunity.

Due to the good market penetration, we often heard a certain requirement which is about the total wiring distance. Though video line has more allowance by using GFW-VBC, audio line could not comply with it, and so you might have struggled.

**GFW-LD** has been developed to meet the requirement. We believe this equipment will solve wiring problems and contribute to your sales even more.
Standard wiring example of R1, R2

*Video line is omitted.

Total Wiring Distance
Up to 8,202 ft

Audio Line Distance Review

<table>
<thead>
<tr>
<th></th>
<th>Diameter of wires</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>22-awg</td>
</tr>
<tr>
<td>GF-BC to Junction Point</td>
<td>-</td>
</tr>
<tr>
<td>Junction Point to Entrance Station</td>
<td>-</td>
</tr>
<tr>
<td>Junction Point to the farthest room station</td>
<td>-</td>
</tr>
<tr>
<td>GF-BC to each Power Supply</td>
<td>-</td>
</tr>
<tr>
<td>GF-NS/A to each Power Supply</td>
<td>-</td>
</tr>
<tr>
<td>MAW-B to Entrance Station</td>
<td>-</td>
</tr>
<tr>
<td>Total Wiring Distance</td>
<td>-</td>
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</tbody>
</table>
Appearance & Features & Specifications

- Common-Bus Total Wiring Distance = 6,562 ft
- Sub-Bus Total Wiring Distance / Trunk = 8,202 ft
- Max. # of Adapter = 10pcs

Current Consumption: Common-Bus = 24mA max.
- Sub-Bus = 32mA max.

Boxed Weight: .48 (lbs)
Boxed Size: 4 15/16 X 5 1/8 X 2 13/16 (inch)

System Layout #1

Common Bus Line
Sub-Bus Line

Entrance Stations

Guard Stations

Junction Point Common

GF-WLD #1
Junction Point Sub
Room Stations

GF-WLD #2
Junction Point Sub
Room Stations

GF-WLD #3
Junction Point Sub
Room Stations

GF-WLD #10
Junction Point Sub
Room Stations

GF-BC
PS

GF-BC
PS

GF-BC
PS

GF-BC
PS

GF-BC
PS
System Layout #2

Common Junction Point

Sub Junction Point

GFW-LD Common

GFW-LD Sub

GF-BC

PS

Room Station

Note: Junction Point or block is locally available.

Sub-bus total wiring distance = 8,202 ft

Common Bus Total Wiring Distance #1

Entrance Station

Junction Point Convention

GFW-LD #1

GFW-LD #2

GFW-LD #3

GFW-LD #10

GF-BC

PS

6,562 ft
Other Wiring Distance

8,202 ft

[GF-MK (Entrance Station)] to [Room Station] = max. 1,968 ft

Applications

Compound type

Condominium type
Wiring Image for Compound type

Example:
- 1968 ft

Wiring Image for Condominium type

Example:
- 20F
- 6 rooms / F

If 394 ft of wire is needed for a floor, it may reach more than 8202 ft which is the limit.
Important Note:

- Each GFW-LD requires 1pce of power supply (PS-2410).
- GFW-LD must be installed for each all trunk line.
- Do not connect wires between Common-Bus and Sub-Bus terminals the other way around.
- Communication method will be voice switching from simultaneous.
- Polyethylene wire must be used to secure the maximum distance.

We are committed to a mutual prosperity.

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