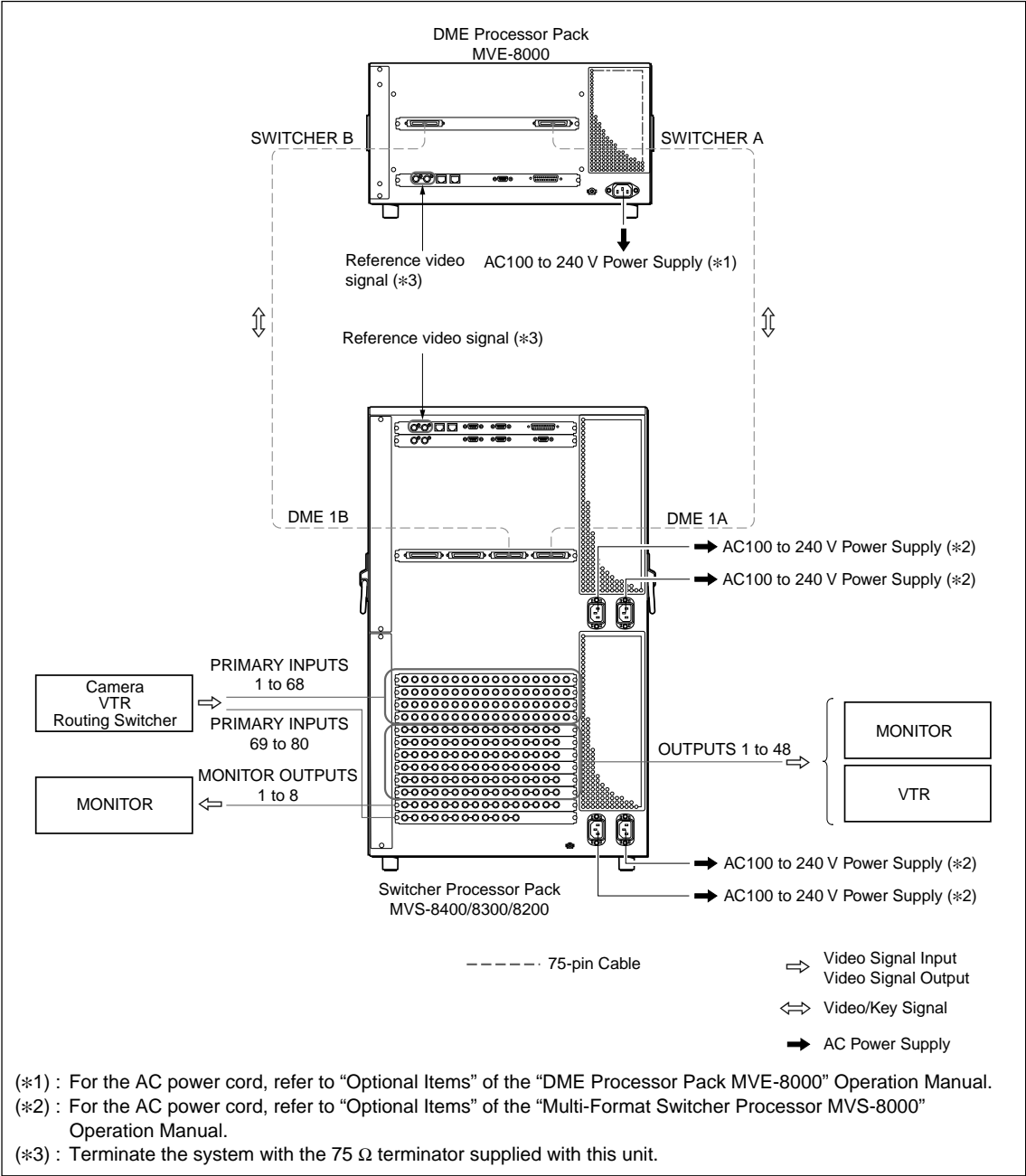


1a MVS System Wiring

2-6. MVS-8000 System Video Cabling

The MVS-8000 system connections is shown in the illustration.
Different video and control wiring configurations may be created to meet individual facility requirements.
Each input can be assigned to any CCP panel source select button, and any MVS system video signal can be assigned to any pair of output connectors.

MVS-8000 system video cabling



Supplied and required cables

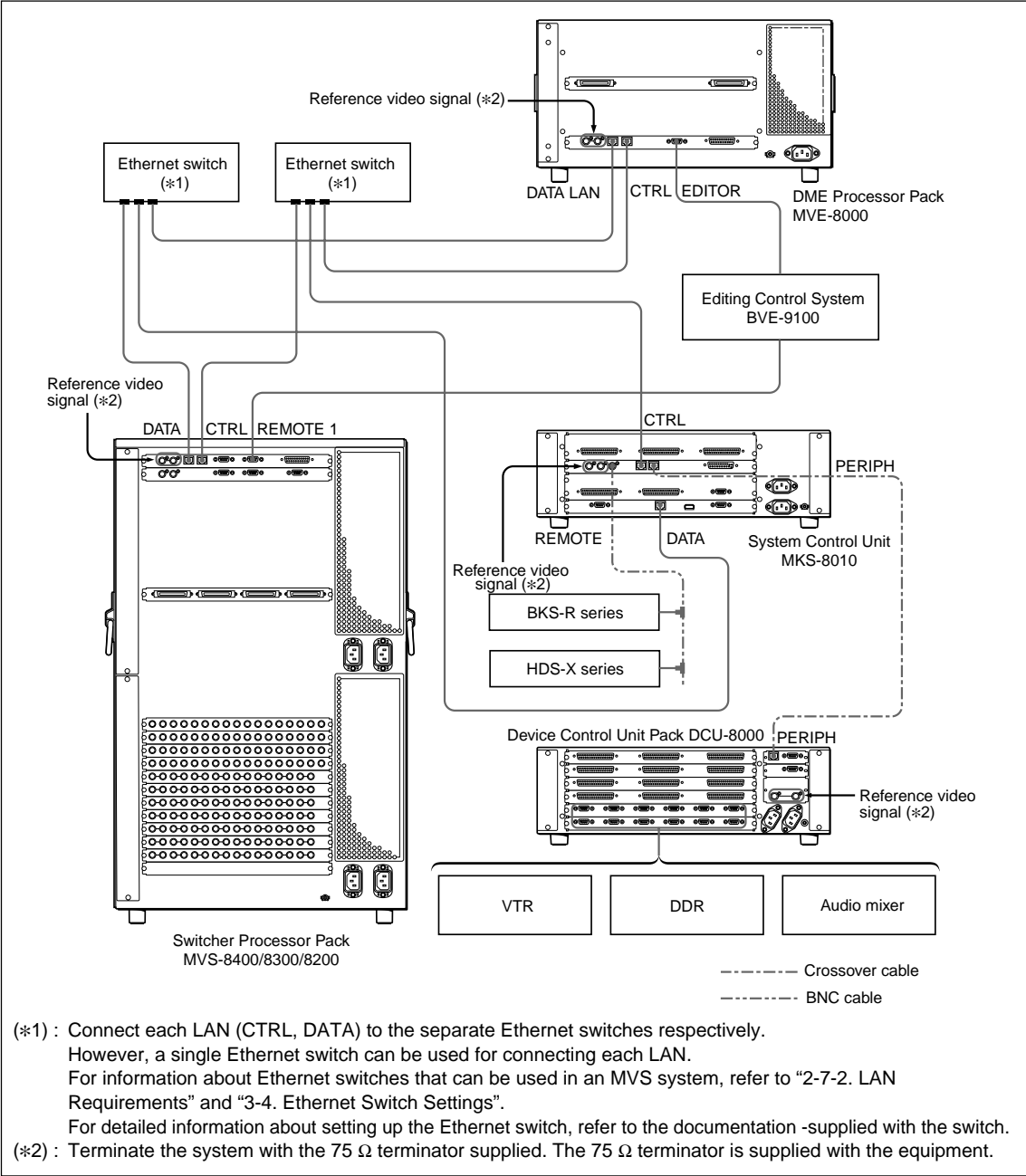
Cable	Description	Quantity	Part No.
DME V/K Interface	MDR 68-pin Female	2	Supplied with MVE-8000

2-7. MVS-8000 System Control Cabling

2-7-1. Cabling

The MVS system uses Ethernet, serial, parallel, USB and S-BUS control. Tally and GPI control are also available from DCU-8000 and CCP-8000 (System Control Unit).

MVS-8000 system control cabling



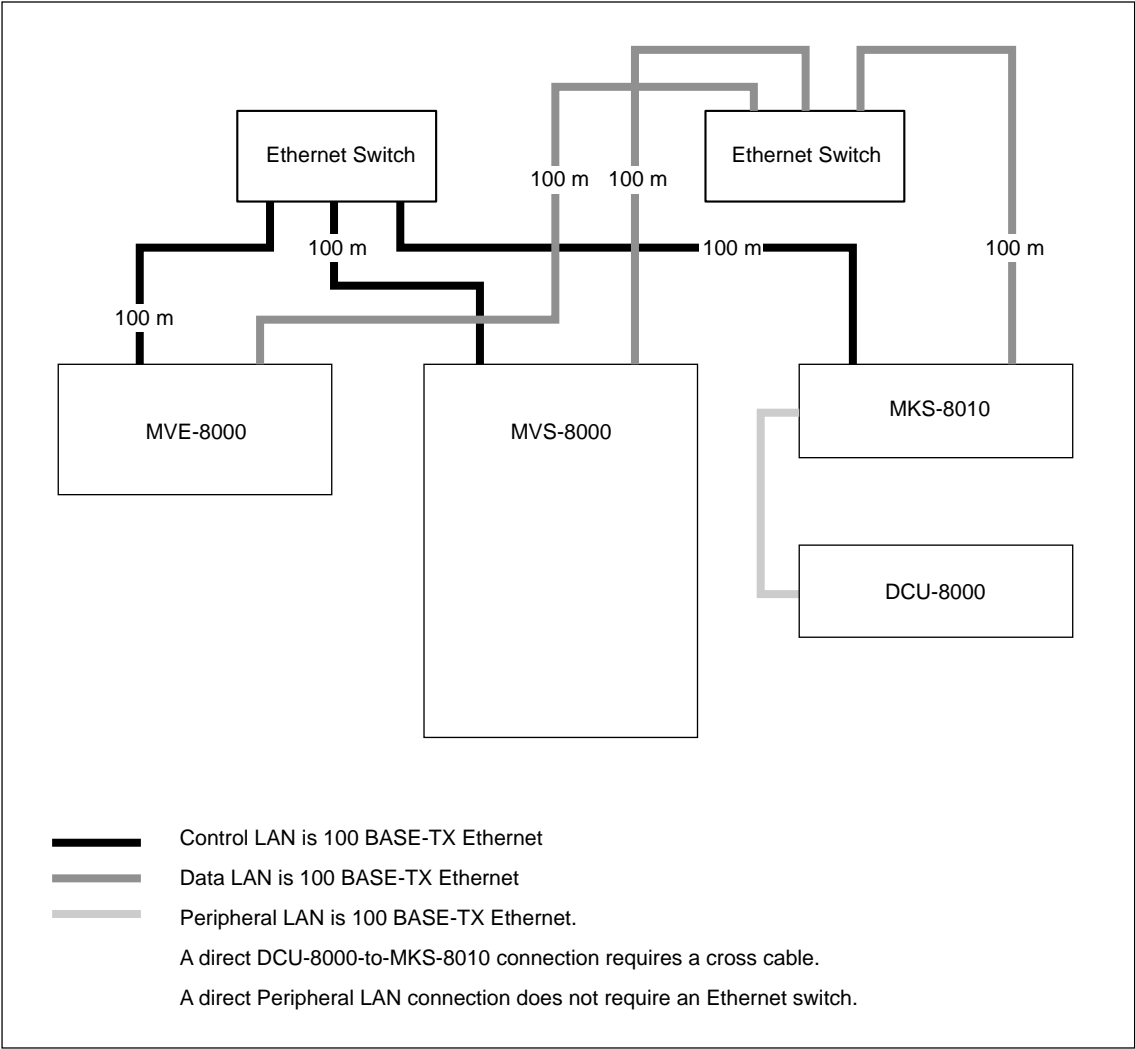
Supplied and required cables

Cable	Description	Quantity	Part No.
LAN cable	RJ-45 Conforms to the IEEE802.3 Ethernet 100 BASE-TX	*	—

* : Quantity depends on the configuration.

Control cable length

One Ethernet cable is available up to 100m from an Ethernet switch.



2-7-2. LAN Requirements

The MVS-8000 system requires an Ethernet Local Area Network (LAN) for System Control LAN and Data LAN.

Switcher Processor (MVS-8000), DME Processor (MKS-8800), and System Control Unit (MKS-8010) are all connected via an Ethernet switch of appropriate specification.

Data LAN requires separate Ethernet switch from the one for Control LAN to avoid delay of the processing.

Notes

- Ethernet Hubs are not acceptable for the MVS-8000 system Ethernet connection.
Use of hub instead of a switch may cause sluggish responses to panel button.
Connect each LAN (Control/Data) nodes to the different switch to avoid sluggish.
- Ethernet switches are not supplied with MVS-8000 system.

Ethernet specification

Refer to Table below for a list of required Ethernet Specifications for MVS-8000 system.

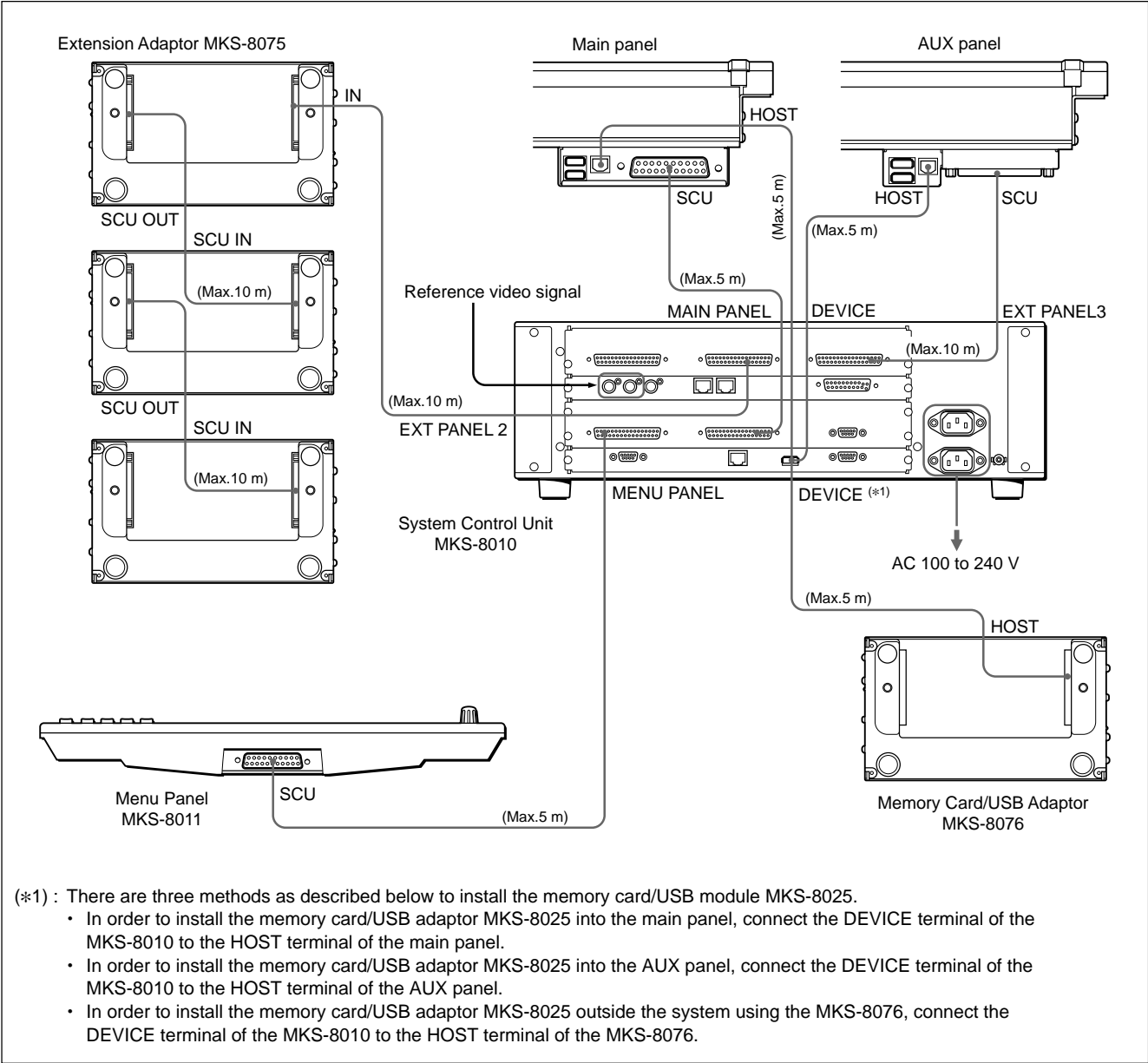
Ethernet specification

Cable	Type	100 BASE-TX compatible.
	Connectors	RJ-45 male connector at each end of cable
	Length	100 m maximum
Switch	Capacity of backbone	Higher than 1.5 Gbps
	Throughput	Higher than 120 Kbps (a port) packet size 64 Byte Total throughput : higher than 3 Mbps
	Delay time of packet	Less than 50u sec
	Speed	Dual : 100 Mbps
	Ports	RJ-45 auto negotiating 100 Mbps Number of ports required is dependent upon system configuration
	VALN	Compatible
	Switching mode	Store-and-Forward
	Management	SNMP, RMON

2-8. CCP-8000 Panel Cabling

CCP-8000 panel modules connections are shown in figure.

CCP-8000 system control cabling

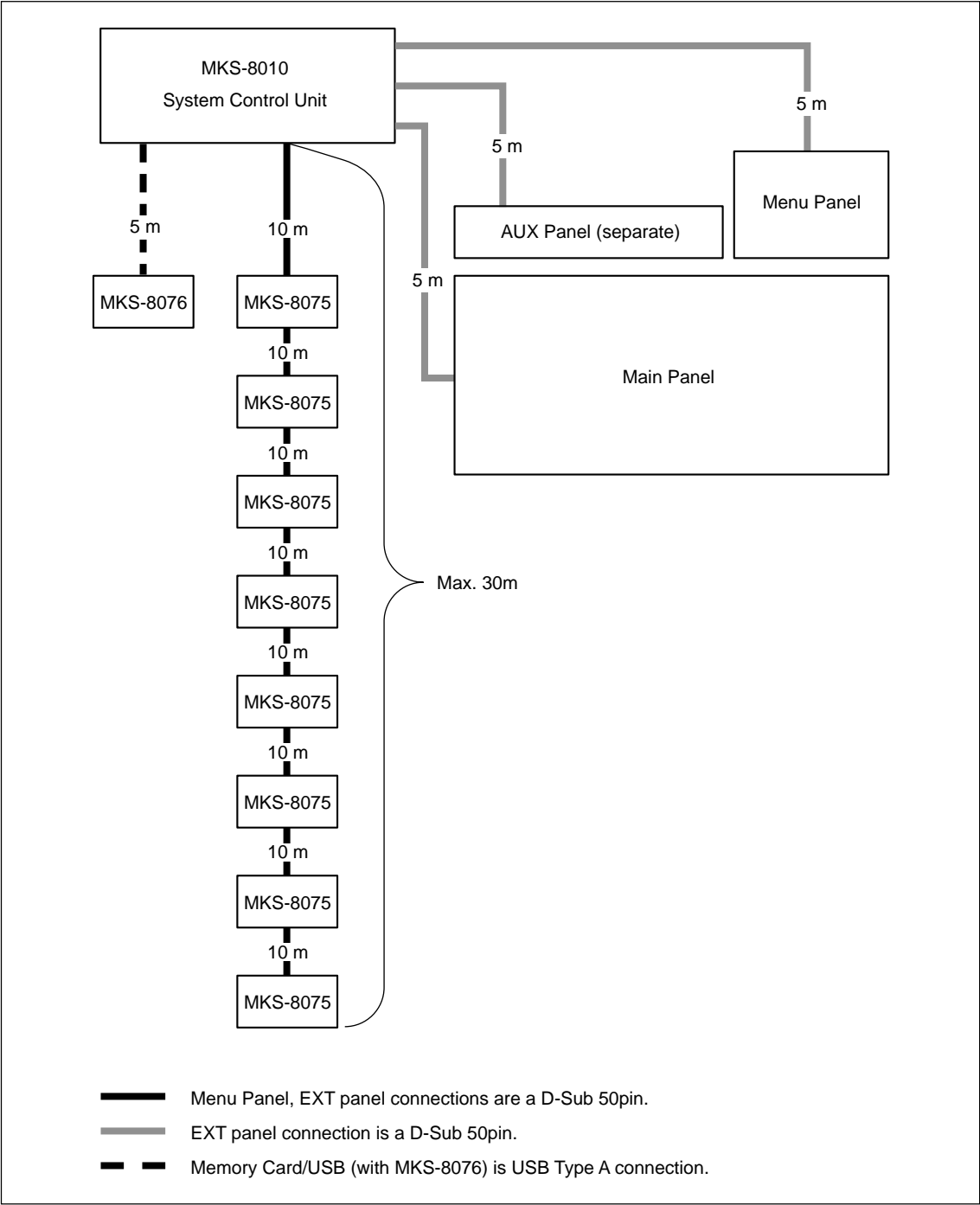


Supplied and required cables

Cable	Description	Quantity	Part No.
EXT/MENU/MAIN PANEL cable	D-sub 50-pin cable (5/10 m)	*	Supplied with CCP-8000 SWC-5005/SWC-5010
USB cable	USB Type A	1	Supplied with CCP-8000

* : Quantity depends on the configuration.

Panel cable length



Note

The maximum number of modules that can be connected to a single MKS-8010 System Control Unit is as follows.

The maximum number of adaptors that can be connected on 1 line is 8 units.)

Model	Model Name	Max modules
MKS-8013/8014/8015	32, 24, 16 AUX BUS MODULE	2
MKS-8026	10 KEY PAD MODULE	1
MKS-8030	KEY FRAME MODULE	1
MKS-8031TB	TRACK BALL MODULE	1
MKS-8031JS	JOY STICK MODULE	1
MKS-8035	KEY CONTROL MODULE	4
MKS-8023	COMPACT KEY TRANSITION MODULE	4
MKS-8032	DSK FADER MODULE	4
MKS-8033	UTILITY/SHOTBOX MODULE	2

However, it is not possible to connect four Key Control modules and a 10 Key Pad module on one line.

You can also connect keyboards, mouse, pen tablets and other devices with USB connectors regardless of whether an MKS-8025 has been installed in the main panel or installed apart from the main panel using an MKS-8076 adaptor.