

Changes in MELSEC Series CC-Link Products Specifications

■Date of Issue

February 2024

■Relevant Models

MELSEC series CC-Link products

Thank you for your continued support of Mitsubishi Electric programmable controllers, MELSEC series.

This technical bulletin informs you that the specifications of the MELSEC series CC-Link products will be changed according to the communication specifications changed by the CC-Link Partner Association.

1 DETAILS ON THE CHANGES

The specifications for the length of Ver.1.10-compatible CC-Link dedicated cables will be changed as follows.

This change applies only if the transmission speed is 10Mbps and the total cable length exceeds 80m.

This change does not affect system configurations other than those specified above.

Before change

Transmission speed	Station-to-station cable length	Maximum total cable length
156Kbps	20cm or longer	1200m
625Kbps		900m
2.5Mbps		400m
5Mbps		160m
10Mbps		100m

After change

Transmission speed	Station-to-station cable length	Maximum total cable length
156Kbps	20cm or longer	1200m
625Kbps		900m
2.5Mbps		400m
5Mbps		160m
10Mbps		100m ^{*1}
		80m

*1 When the transmission speed is 10Mbps and the total cable length exceeds 80m, configure the system so that the total length of station-to-station cables connecting 10 consecutive stations is 10m or longer. When the total number of connected stations including a master station is 10 or less, there is no restriction on the total length of station-to-station cables.

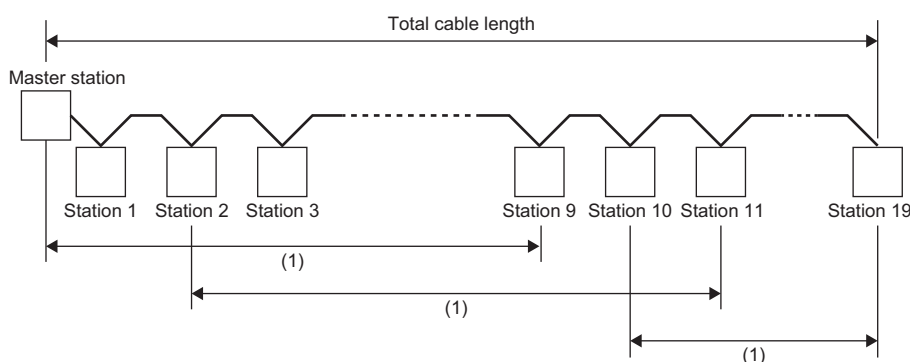
2 ACTIONS TO BE TAKEN

2.1 When the Transmission Speed is Not 10Mbps Or the Total Cable Length is 80m or Shorter

You do not have to do anything.

2.2 When the Transmission Speed is 10Mbps And the Total Cable Length Exceeds 80m

In the case of a system configuration like the following example, you need to wire the stations so that the total length (1) of station-to-station cables connecting 10 consecutive stations is 10m or longer.



If it is not possible, please change the transmission speed of the system to 5Mbps or less, or consider using a CC-Link system repeater (T-branch) module (AJ65SBT-RPT). The CC-Link system repeater (T-branch) module (AJ65SBT-RPT) allows the CC-Link system to be separated into IN-side and OUT-side. When the system is configured so that each of the total cable length of IN-side and OUT-side is 80m or less, it does not fall under the constraint.

3 RELEVANT MODELS

MELSEC series CC-Link products

4 SCHEDULE

The change will be applied from February 2024.

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REVISIONS

Version	Date of Issue	Revision
A	February 2024	First edition

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