

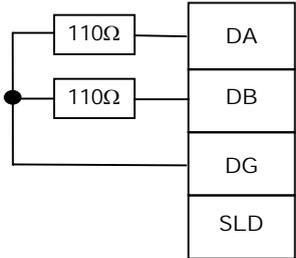
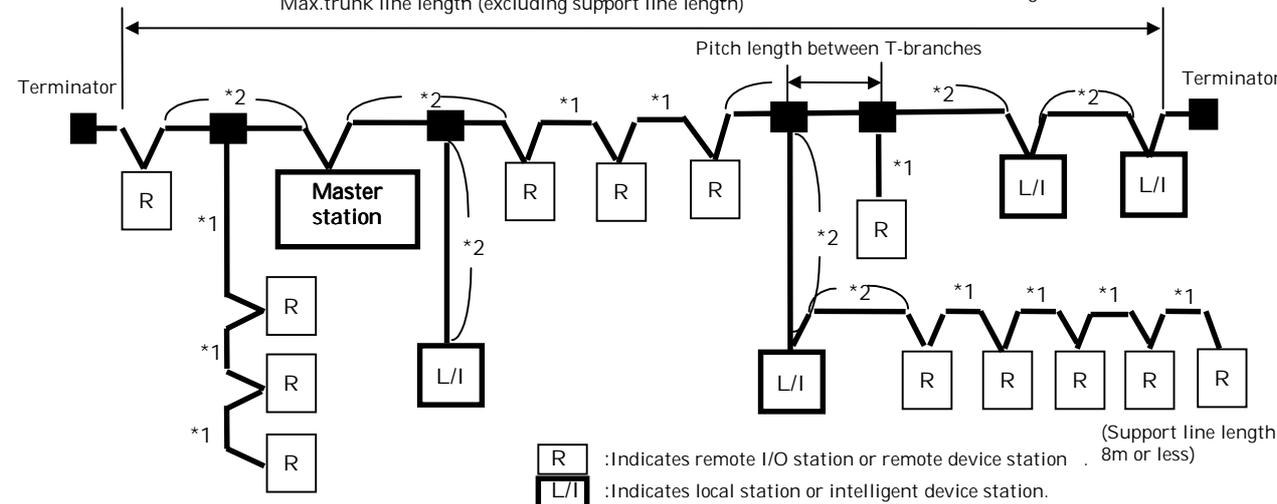
TECHNICAL BULLETIN

[Issue No.] T08-0011
 [Title] Notice on T-Branch Connection for CC-Link
 Communication Speed 625kbps/156kbps
 [Relevant Models] Open field network CC-Link

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 [Date of Issue] June '99

2. List of T-branch Communication Specifications

Communication specifications not listed below follow the CC-Link specifications.

Item	Specifications	Remarks														
Communication speed	625kbps 156kbps	10M/5M/2.5Mbps cannot be used.														
Max. trunk line length	100m 500m	Cable length between terminators. The T-branch cable length is not included.														
Max. support line length	8m	Total cable length per branch														
Total support line length	50m 200m	Total length of all branch cables														
Max. No. of units connected to branch line	6 units/branch	The total No. of connected units follows the CC-Link specifications.														
Connection cable	CC-Link dedicated cable (Example: FANC-SB, CSFV-SLAB, 100ZCLK-SB-20AWGX3C)	<ul style="list-style-type: none"> The CC-Link dedicated high-performance cable cannot be used. (Example: FANC-SBH) Combined use of differing maker cables is not possible. (Refer to the catalog for the makers.) 														
Terminator (connection method)	110Ω, 1/2W × 4 pcs. (Connect across DA-DG/DB-DG).....Both ends [Connection and terminator type]  [Terminator type] (Example) ERDS1TJ111 Matsushita Electronic Components CO.,Ltd.	<ul style="list-style-type: none"> Use a commercially available 110Ω, 1/2W terminator. The 110Ω, 130Ω resistors enclosed with the master/local modules cannot be used. <p>* The T-branch dedicated terminator is scheduled for sales as an option.</p>														
T-branch terminal block/connector	<ul style="list-style-type: none"> Terminal block.....Commercially available terminal block Connector.....FA sensor connector NECA4202 (IEC947-5-2) or equivalent is recommended. (NECA : Nippon Electric Controller Association Standards) 	<ul style="list-style-type: none"> Avoid peeling the sheath when wiring the cable on the trunk line side. 														
Max. trunk line length, pitch between T-branches and cable length between stations	CC-Link dedicated cable (Using 110Ω terminator) <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2">Communication speed</th> <th rowspan="2">Max. trunk line length</th> <th rowspan="2">T-branch pitch length</th> <th>Cable length between remote I/O or remote device stations</th> <th>Cable length between master/local station or intelligent station and previous/next stations</th> </tr> <tr> <th style="text-align: center;">*1</th> <th style="text-align: center;">*2</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">625kbps</td> <td style="text-align: center;">100m</td> <td rowspan="2" style="text-align: center;">No limits</td> <td rowspan="2" style="text-align: center;">30cm or more</td> <td rowspan="2" style="text-align: center;">*1m or more/2m or more</td> </tr> <tr> <td style="text-align: center;">156kbps</td> <td style="text-align: center;">500m</td> </tr> </tbody> </table> <p style="font-size: small; margin-top: 5px;"> * 1m or more applies when the system is configured only of remote I/O and remote device stations. 2m or more applies when the system is configured with local stations and intelligent device stations. Max.trunk line length (excluding support line length) </p>  <p style="font-size: x-small; margin-top: 5px;"> (Support line length 8m or less) (Support line length 8m or less) </p> <p style="font-size: x-small; margin-top: 5px;"> [R] :Indicates remote I/O station or remote device station [L/I] :Indicates local station or intelligent device station. </p>		Communication speed	Max. trunk line length	T-branch pitch length	Cable length between remote I/O or remote device stations	Cable length between master/local station or intelligent station and previous/next stations	*1	*2	625kbps	100m	No limits	30cm or more	*1m or more/2m or more	156kbps	500m
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