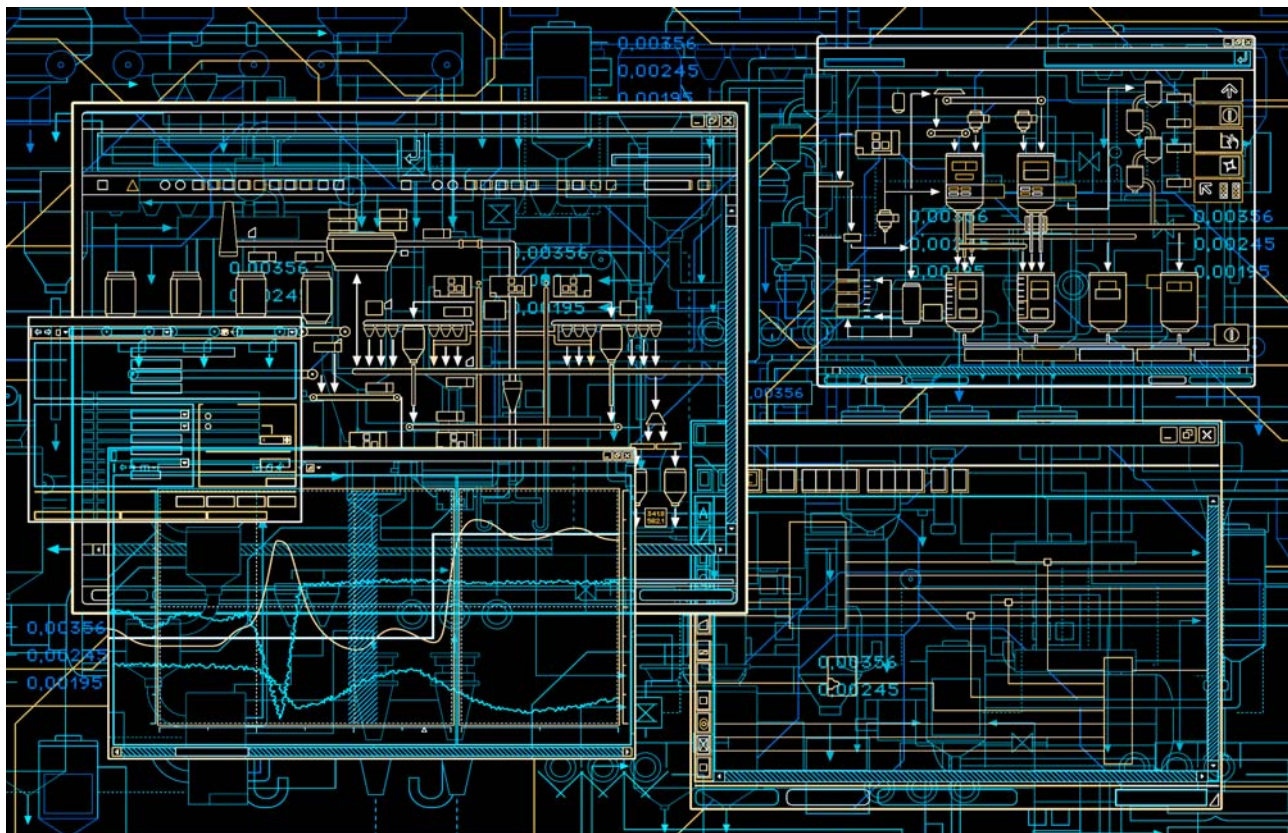




Advant Fieldbus 100

User Manual

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Table 6. Advant Fieldbus 100 Equipment Items

Equipment Item	Type Designation	Description	Remarks
Advant Controller 70	PM810V2	Processor Module including Advant Fieldbus 100 Communication Interface with Twisted Pair connectors and integrated modem. New compatible Twisted Pair connectors. Supports: Full redundant media	
	PM810V1	Processor Module including Advant Fieldbus 100 Communication Interface with Twisted Pair connectors and integrated modem. Supports: Full redundant media	Replaced by PM810V2
	PM810	Processor Module including Advant Fieldbus 100 Communication Interface with Twisted Pair connectors and integrated modem. No redundant media support	Replaced by PM810V1
Advant Controller 110 & Advant Controller 160 Interface	CI626V1	Interface with coaxial connectors and integrated modem. Supports: Full redundant media	
	CI626	Interface with coaxial connectors and integrated modem. Reduced redundant media support, max 4 meters cable difference between any two station on the bus, on coaxial media only.	Replaced by CI626V1
	CI627	Interface with Twisted Pair connectors and integrated modem. Supports: Full redundant media	

Figure 8 shows two single coaxial segments interconnected with an optical bus segment.

The optical fiber is used only in point-to-point configuration.

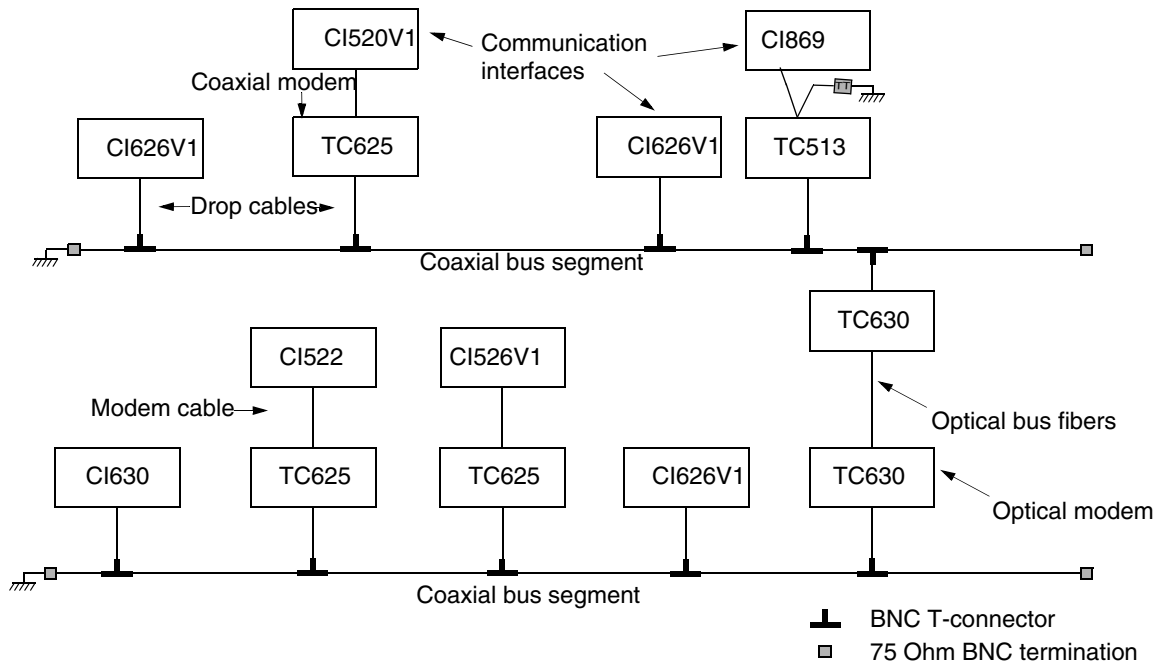


Figure 8. Optical Link between two Coaxial Bus Segment

Figure 9 shows a redundant coaxial segment. The figure illustrates that the CI626V1 (interface unit for the Advant Station 110) has two coaxial modems integrated in the unit.

The other coaxial interface units need two external modems to achieve media redundancy (CI520V1, CI522 and CI526V1).

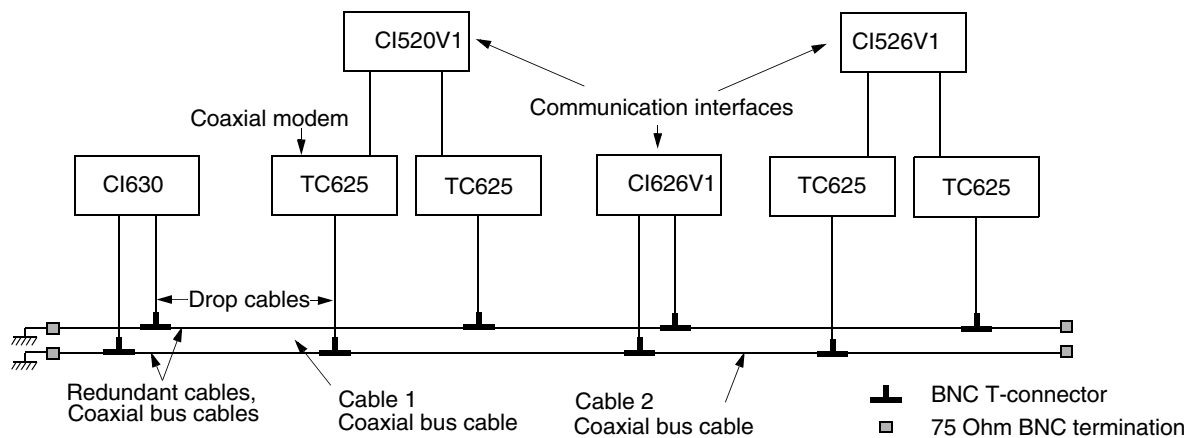


Figure 9. Redundant Coaxial Media

Cables

Coaxial Cable

The communication interfaces CI520, CI522 and CI526 use TC625 as external modems while CI626 has integrated coaxial media modems. The modems are able to drive a 700 meter (2300 ft.) of 75 ohms coaxial cable with 80 AF 100 Stations connected.

The modems are galvanically isolated from the communication interface. The modems are HF/HV grounded through a capacitor. Furthermore, the Advant Fieldbus 100 must be grounded, but only in one end. If redundant cables are used they should be grounded in the same place (see [Section 4, Installation and Start-up](#)).

The Communication Interface CI520V1, CI522, CI526V1 and CI626V1 can handle two redundant bus cables (see [Section 4, Installation and Start-up](#)) but CI520V1, CI522, CI526V1 and CI526 must have one modem (TC625) per bus cable.

Each station connection consists of two bus cables, one drop cable and a BNC T-connection. One bus cable leading to the next communication interface, one to the previous communication interface and the drop cable leading to the actual node.