GE Series 90-30 Series Service Manual

IC693CBL301

1. Description

The IC693CBL301 is an I/O Bus expansion cable that is compatible with the Series 90-30 PLC series formerly by GE Fanuc non under Emerson Automation. This cable has a length of 6 feet or 2 meters with a continuous shield installed. It has One (1) 25-pin connector on one end and One (1) male and One (1) female 25-pin connector on the other end. This cable is used to extend the I/O bus to expansion or remote baseplates.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Series 90-30**
Manufacturer	**GE Fanuc; Emerson Automation (Current)**
Part	**Number IC693CBL301**
Part	**Number IC693CBL301**
Series	**Series 90-30**
Product	**Description I/O Bus Expansion Cable**
Type	**Cable**
Product	**Description I/O expansion cable**
Compatible	**CPUs CPU 331, 340, 341, 350, 351, 352, 360, 363, and 364**
Purpose	**Bus expansion**
Cable	**length 6 feet or 2 meters**
Compatible	**baseplate Expansion baseplate; Remote Baseplate**
Structure	**Continuous shield**
Shielding	**Continuous**
No.	**of cables permitted CPU 350 - 364: up to 7 expansion cables CPU 331-314: up to 4 expansion cables**
Length	**2 meters**
Module	**interface: One (1) 25-pin D connector Two (2) 25-pin D connector (male and female)**
Maximum	**cable distance: Expansion baseplate: 50 feet (15 meters); Remote baseplate: 700 feet (213 meters)**
Compatibility	**CPUs, remote racks**
Maximum	**cable distance Not to exceed a total of 700 meters (213 meters) between CPU baseplate and last remote baseplate**
Connectors	**CPU Baseplate: One (1) 25-pin connector Ex**

3. Product Information

The IC693CBL301 is an I/O Bus expansion cable that is compatible with the Series 90-30 PLC series formerly by GE Fanuc non under Emerson Automation. This cable has a length of 6 feet or 2 meters with a continuous shield installed. It has One (1) 25-pin connector on one end and One (1) male and One (1) female 25-pin connector on the other end. This cable is used to extend the I/O bus to expansion or remote baseplates.

Technical specifications for IC693CBL301

Brand GE Fanuc

Series Series 90-30

Manufacturer GE Fanuc; Emerson Automation (Current)

Part Number IC693CBL301

Part Number IC693CBL301

Series Series 90-30

Product Description I/O Bus Expansion Cable

Type Cable

Product Description I/O expansion cable

Compatible CPUs CPU 331, 340, 341, 350, 351, 352, 360, 363, and 364

Purpose Bus expansion

Cable length 6 feet or 2 meters

Compatible baseplate Expansion baseplate; Remote Baseplate

Structure Continuous shield

Shielding Continuous

No. of cables permitted CPU 350 - 364: up to 7 expansion cables CPU 331-314: up to 4 expansion cables

Length 2 meters

Module interface: One (1) 25-pin D connector Two (2) 25-pin D connector (male and female)

Maximum cable distance: Expansion baseplate: 50 feet (15 meters); Remote baseplate: 700 feet (213 meters)

Compatibility CPUs, remote racks

Maximum cable distance Not to exceed a total of 700 meters (213 meters) between CPU baseplate and last remote baseplate

Connectors CPU Baseplate: One (1) 25-pin connector Expansion baseplate: One (1) male and One (1) female 25-pin connector

Feature Wye adapter

Supported CPUs Series 90--30 CPUs

Cable Shield Continuous

Connector 1st end 25-pin D connector (male)

Maximum no. of cables CPU 350 - 364: Up to 7 expansion cables CPU 331 - 341: Up to 4 expansion cables

Terminator Plug IC693ACC307

Connector 2nd end Two-headed 25-pin D connector (Male and female)

Cable material: Belden 8107 only

Removal and Insertion under Power Not recommended

Catalog Accessories

25 Pin Male Connector assembly: Crimp Plug = Amp 207464-1; Pin = Amp 66506-9 Solder Plug = Amp 747912-2

Backplane current draw N/A

Maximum number in a system Depending on the CPU

25-pin female connector assembly Crimp Receptacle = Amp 207463-2; Pin = Amp 66504-9; Solder Receptacle = Amp 747913-2

Product Lifecycle: Discontinued

Product Lifecycle Status* Discontinued/Obsolete

Connector Shell: Amp 745833-5

I/O bus terminator plug: IC693ACC307

The IC693CBL301 is a Bus Expansion cable that is part of the Series 90-30 product series formerly by GE Fanuc Automation, currently under Emerson Automation. This cable is primarily used to implement I/O expansion by means of interconnecting expansion or remote baseplate to the expansion port of the CPU baseplate using the IC693CBL301 cable. This cable is also referred to as a Wye cable, having One (1) 25-pin connector on one end and One (1) male and One (1) female 25-pin connector on the other end. The IC693CBL301 has a cable length of 6 feet or 2 meters with continuous shielding. When connecting this cable, the 25-pin connector attaches to the CPU expansion port located on the right-most side. The male connector of the cable is attached to the 25-pin female connector of the expansion or remote baseplate located on the left-most part. The exposed 25-pin connector can be used to connect to another I/O bus expansion for further interconnection or connected to a terminator plug to close the I/O bus. Up to Seven (7) total instances of the cable are used with a single Series 90-30 system. The maximum, aggregate cable length must not exceed 50 feet or 15 meters, between the CPU baseplate and the last expansion baseplate or 700 feet or 213 meters from the CPU to the last remote baseplate. An unterminated expansion bus or I/O bus length exceeding the recommended measurement will result in erratic communication and I/O data exchange. With CPU 350 - 364, up to 7 expansion cable is supported while with CPU 331-314, up to 4 expansion cables is allowed.

The IC693CBL301 cable is an I/O Bus expansion cable that has been designed and manufactured by GE Fanuc and included in GE Series 90-30. This specific cable provides connections between different racks and CPUs, providing even interconnection between different expansion ports. This specific model is also used as a Wye cable type that is used to daisy-chain different base plates or racks together. The structure of this cable provides continuous shield features. The GE Fanuc IC693CBL301 I/O Bus expansion cable can extend the I/O bus to the expansion or remote racks in a system when additional I/O slots are required or when different baseplates, for design or security reasons, need to be located some distance away from the main CPU. This cable, among others, is used to build a custom cable that can help achieve the desired length without losing effectiveness. The GE Fanuc IC693CBL301 I/O Bus expansion cable comes with connectors on both ends. These connectors consist of a male 25-pin connector and 2 male/female 25-pin connectors on the other

end. Both connectors are D-type connectors. To connect more than one cable, the users need to start by connecting the single male connector on the right side of the CPU baseplate. Then to connect a second baseplate, the male connector on the dual connector end needs to be connected to the female pin connector on the first expansion cable. The unused female connector on the dual-end can be connected to the single male connector of a second I/O Bus expansion cable or an I/O bus Terminator plug. The GE Fanuc IC693CBL301 I/O Bus expansion cable has a length of 2 meters.