Allen-Bradley 1756 Series Service Manual

1756-RMC1

1. Description

The 1756-RMC1 cable is an Allen-Bradley ControlLogix series connector cable. It is 1 meter or 3.3 feet in length. The 1756-RMC1 connector cable is made to be used with the Allen-Bradley ControlLogix 1756-RM2 and 1756-RM2K redundancy modules in redundancy systems. It is the shortest cable that is available for these modules. The 1756-RMC1 connector cable can withstand a maximum ambient operating temperature of 70 degrees Celsius or 158 Technical specifications for 1756-RMC1

2. Specifications

Specification	Value
Manufacturer	**Rockwell Automation**
Brand	**Allen-Bradley**
Part	**Number/Catalog No. 1756-RMC1**
Series	**ControlLogix**
Module	**Type Fiber Optic Cable**
Length	**3.28 feet (1 meter)**
Wavelength	**1300 Newton Meters**
Transmission	**Less than 1000 MB-Second**
Channels	**1**
Operating	**Temperature 32-140 Fahrenheit (0-60 Celsius)**
Enclosure	**None**
Wire	**Size 20 AWG**
Dimensions	**5.51 x 4.41 x 5.71 inches Description**
The	**Allen-Bradley 1756-RMC1 is a fiber-optic communication cable required for connecting ControlLogix redundancy modules. It has a length of one meter or 3.28 feet. It is part of the series of Bulletin 1756-RMCx Cable Series that come in a variety of lengths. These are compatible with both standard and extreme-environment modules. Building a ControlLogix Redundant Controller System requires one or two of these cables. Because redundancy modules and chassis do not ship with these connectors, order them separately before system assembly. The 1756-RMC1 Redundancy Module Fiber-optic Cable is connected at the bottom of**

3. Product Information

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Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 1756-RMC1

Series ControlLogix

Module Type Fiber Optic Cable

Length 3.28 feet (1 meter)

Wavelength 1300 Newton Meters

Transmission Less than 1000 MB-Second

Channels 1

Operating Temperature 32-140 Fahrenheit (0-60 Celsius)

Enclosure None

Wire Size 20 AWG

Dimensions 5.51 x 4.41 x 5.71 inches Description

The Allen-Bradley 1756-RMC1 is a fiber-optic communication cable required for connecting ControlLogix redundancy modules. It has a length of one meter or 3.28 feet. It is part of the series of Bulletin 1756-RMCx Cable Series that come in a variety of lengths. These are compatible with both standard and extreme-environment modules. Building a ControlLogix Redundant Controller System requires one or two of these cables. Because redundancy modules and chassis do not ship with these connectors, order them separately before system assembly. The 1756-RMC1 Redundancy Module Fiber-optic Cable is connected at the bottom of the module, in a downward orientation. Before connecting this, remove its protective caps. Because it contains optical fibers, do not make sharp bends in the cable. The LC connector coupler can be used to keep the cable from bending. This also allows easy connection and disconnection without needing to remove the module from the chassis. Make sure that the location that the 1756-RMC1 Connector runs through is not prone to activities that can cause it to be run over, abraded, cut, or otherwise damaged. A redundant fiber cable system can tolerate one of multiple faults on a single channel. Network operation would become unpredictable if a fault occurred on both channels. The 1756-RMC1 is an Allen Bradley ControlLogix Fiber Optic communication Cable that is utilized for connecting the ControlLogix redundancy Modules. The cable is one meter long which is equivalent to 3.28 feet and it is part of the 1756-RMCx cable series which are also available in varying lengths. The 1756-RMC1 comes compatible with both the standard and the extreme environment modules. If building the ControlLogix redundant controller systems, this cable is very important for ensuring this works effectively. It is important to note that the redundancy modules and the chassis don’t come together with this cable and therefore needs to be sourced separately. The 1756-RMC1 connects at the bottom of the module and in a downward orientation. Before it is connected, it is critical you ensure that the protective caps are removed and since it contains optical fibers, it should not be forced to take sharp bends. In addition, the LC connectors can be used to ensure the cable doesn’t bend.

The wavelength for the 1756-RMC1 is 1300 Newton Meters and it has a transmission speed less than 1000 Megabytes per second. It is a single channel cable with an operating temperature of 0-60 degrees Celsius and the wire size for the 1756-RMC1 is 20 AWG. The shipping dimension for the 1756-RMC1 is 5.51 x 4.41 x 5.71 inches and comes in an open enclosure. The 1756-RMC1 is high performance connector that is easy to use and features a tight integration between programming software, controller. The I/O modules reduce the development time and the cost at commissioning and during the normal operation time for the 1756-RMC1. Its performance standard and safety control features a truly integrated system.