Cisco Coaxial Media Converter Accessories

The Cisco® Coaxial Media Converters (CMC) convert data between a coaxial cable network, a Passive Optical Network (PON), or an Ethernet network. The Cisco CMC connects to cable modems through the CATV coaxial cable network to an aggregation network through the PON or Ethernet network in the upstream direction.

Some of the Cisco CMC accessories are shipped with Cisco CMC by default. They can be selected individually by customers depending on field requirements. The accessories available are listed In Table 1.

Accessory Specifications

Table 1.　　Product Overview

Product Descriptions	Part Number	Figure	Note
Cable Gland with O-Ring - for one CAT5	GLND-PG16-RJ-1H=		IP 67 waterproof
Cable Gland with O-Ring - for two CAT5	GLND-PG16-RJ-2H=		IP 67 waterproof
F-Connector with O Ring, from 5/8" to Metric (M10x0.75mm)	FCONNTOR-CMC-M=		IP 67 waterproof
F-Connector with O Ring, from 5/8" to Standard (3/8")	FCONNTOR-CMC-S=		IP 67 waterproof
Port Plug with O-Ring, 5/8"	PLUG-CMC-RF=		IP 67 waterproof
SC/APC-SC/APC Adaptor	OPT-ADP-SC-SC=		Subscriber Connector/Angle-Polished Connector (SC/APC) Adaptor

Product Descriptions	Part Number	Figure	Note
SC/APC-SC/APC Adaptor	OPT-ADP-SC-FC=		Subscriber Connector/Angle-Polished Connector (SC/APC) Adaptor
Pads	Same as Cisco GS7000/Gainmaker		
Forward Linear Equalizer	Same as Cisco GS7000/Gainmaker Node Forward Linear EQ		
Signal Director (two way Splitter)	Same as Cisco GS7000 Node Signal Director – two way Splitter		
Signal Director (Jumper)	Same as Cisco GS7000 Node Signal Director – Jumper		
Console Cable	CAB-CONSOLE-DB9=		
GE SFP	GLC-SX-MM-RGD GLC-LX-SM-RGD GLC-ZX-SM-RGD		

Cable Gland with O-Ring Specifications (RJ45 waterproof connector)

The cable gland is a waterproof part used for the RJ-45 port. There are two types of cable glands: with one hole and with two holes. The cable gland with two holes should be selected when 1+1 redundancy is used for outside PON ONT connectivity.

Table 2.   Cable Gland O-Ring Specifications

No.	Item	Description
1	Threads	PG16
2	Material	Fitting: Nylon 6/6 UL94 V-0, Color: Gray Form Seal: Buna-N O-Ring: Buna-N, Color: Black
3	Temperature Range	-40°C to +100°C
4	Protection Rating	IP67
5	Dimensions	Inch
6	Gland for One CAT5 (GLND-PG16-RJ-1H)	
7	Gland for Two CAT5 (GLND-PG16-RJ-2H)	

F-Connector with O-Ring Specification

Table 3.   F-Connector 5/8" with O-Ring Specification

No.	Item	Description
1	**F-Connector – 5/8" to Metric**	From 5/8" to Metric (M10x0.75 mm)
2	**F-Connector – 5/8" to Standard**	From 5/8" to Standard (3/8")
3	**Material**	BODY: BRASS INSULATOR: TEFLON CONTACT: BRASS O-RING: SILICONE RUBBER
4	**Temperature Range**	-40°C to +110°C
5	**Protection Rating**	IP67
6	**Impedance**	75 Ohm
7	**Frequency Range**	Up to 1.1 GHz

Port Plug 5/8" with O-Ring Specification

A port plug is a waterproof part used to terminate the unused power port, fiber ports, and RF ports. Plugs can be easily added or removed in the field by using a wrench.

Table 4.   Port Plug 5/8" with O-Ring Specification

No.	Item	Description
1	**Threads**	5/8" Inch
2	**Material**	Aluminum Alloy 2011-T3, 2024 - T4 OR 6061 -T6
3	**Protection**	With O-RING: Apple Rubber P/N AS568A-906
4	**Protection Rating**	IP67

SC/APC - SC/APC Adaptor

Table 5.   SC/APC-SC/APC Adaptor Specification

No.	Item	Description
1	**Adapter Type**	SC/APC - AC/APC
2	**Mode**	Single mode
3	**Standards**	Meet EIA/TIA, IEC and NTT-SC[*] Standards
4	**Housing Material**	Polymer
5	**Color**	Green
6	**Mounting Style**	Flange, Snap
7	**Low insertion loss**	Single mode: 0.15 dB (typical)

SC/APC - FC/APC Adaptor

Table 6.   SC/APC-FC/APC Adaptor Specifications

No.	Item	Description
1	Adapter Type	SC/APC - FC/APC
2	Mode	Single mode
3	Housing Material	Metal
4	Color	Black
5	Mounting Style	Flange, Snap
6	Low insertion loss	Single mode: 0.2 dB (typical)

Console Cable

The console cable is used for connecting your computer's serial port to the Cisco CMC console port. To use the cable, connect the Cisco CMC PCB and the DB9 connector to the serial port on your computer. Table 7 contains console cable specifications.

Table 7.   Console Cable Specifications

No.	Item	Description
1	Console Connector	Connect to Cisco 16x4 Coaxial Media Converter console port, 6Pin, FEMALE
2	DB9 Connector	CONNECTOR, D-SUB, 9Pin, FEMALE, SOLDER TYPE

Pads (Attenuators)

Plug-in pads produce flat (even) loss across the forward and reverse frequency spectrums. Pads are used during station balancing to adjust signal levels as needed. The (dB) loss produced is equal to the pad value printed on the top of the pad. The pads are rated for operation to 1 GHz. The Pad with "75 Ω" printed on the top will work as a 75Ohm terminator.

Forward Linear Equalizers

Forward linear equalizers produce linear tilt. A linear equalizer should be used in the plug-in input or inter-stage equalizer location if Cisco CMC output tilt does not have the desired station output tilt. The EQ value is the amount of tilt from lowest to highest frequency (52 - 1002 MHz).

Note: Cisco CMC re-uses the same linear Equalizers and Pads from Cisco GS7000/GainMaker nodes. For a more detailed specification please refer to the below URL:
http://www.cisco.com/c/dam/en/us/products/collateral/video/gainmaker-amplifiers/716336.pdf

Signal Director - 2 Way Splitter and Jumper

The two-way Splitters are required to split forward RF signal to four RF output ports. The Jumpers are required to route all forward path signals to two RF output ports.

Table 8.   Signal Director Part Number

Type	Part Number	Description
2 Way Splitter	4011908	Cisco GS7000 Node Signal Director Splitter (Kit/10)
Jumper	4011907	Cisco GS7000 Node Signal Director Jumper (Kit/10)

Note 1: By default, the Cisco CMC is shipped with two splitters (4-port Cisco CMC).

Note 2: Cisco CMC re-uses the same splitter and jumper from Cisco GS7000 nodes. For a more detail specification please refer to Cisco GS7000 data sheet at the following URL http://www.cisco.com/c/dam/en/us/products/collateral/video/gs7000-node/7013918.pdf

The Jumper can be ordered separately to replace the splitter to make Cisco CMC a 2-port Cisco CMC. In addition port plugs also need to be ordered to terminate the unused RF ports.

Gigabit Ethernet SFP

The Cisco CMC Gigabit Ethernet SFPs are used in the Cisco CMC system to connect the Cisco CMC to uplink Switches\Routers. The supported Gigabit Ethernet SFPs (at FCS) are listed in Table 1. For detailed product description and specification refer to the related Gigabit Ethernet SFPs datasheet at the following URL.

http://www.cisco.com/c/en/us/products/collateral/interfaces-modules/gigabit-ethernet-gbic-sfp-modules/product_data_sheet0900aecd8033f885.pdf

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