

ANT-140-001-50

50 ft SMA Male to SMA Female Coax Cable (400 size)



Applications

- 4G/LTE & 5G Antennas
- Cellular Modems, Routers & Amplifiers
- GPS Receivers
- ADS-B Receivers
- HAM Radio Equipment
- NOT for use with TV or WiFi Applications



Product Features

- SMA Male Connector
- SMA Female Connector
- 50 Ohm Copper-Clad Aluminum Core
- Gold Plated Signal Pins
- PE Outer Jacket - 0.405 inch Diameter
- Heat Shrink Tubing on Connectors
- Low Signal Loss at Common Wireless Frequencies

Ordering Information

Part No.	Description
ANT-140-001-50	Proxicast 50 ft Low-Loss Coax Extension Cable (50 Ohm) - SMA Male to SMA Female

General Description

Proxicast's ANT-140-001-50 SMA coax cable is the perfect solution for extending 4G/5G, GPS, ADS-B or other SMA antennas up to 50 ft from their radio source. Or to extend an existing cable run by 50 ft.

All of Proxicast's coax extension cable assemblies are constructed with top quality extremely low-loss cable and gold plated connectors. Each cable assembly is fully tested.

CFD400 coax is the same diameter as RG8 but has far superior performance characteristics, matching or exceeding LMR400 cable.

The cable's tough polyethylene jacket withstands abrasions and provides excellent moisture resistance. This cable assembly can be used indoors or outdoors.

For cellular (600 – 6000 MHz) applications, Proxicast recommends 195-size coax for assemblies up to 10 ft, 240-size up to 25 ft and 400-size up to 75 ft. It is acceptable to use a thick cable for the long portion of a cable run and a short thin cable to connect to equipment or antennas, just minimize the total cable length and number of connectors.

All outdoor coax connections must be weather-proofed to prevent damage caused by moisture entering the connectors. Use our Pro-Grade Self-Bonding Silicone Tape ([ANT-900-002](#)) for fast & easy connection sealing.

NOTE: This cable assembly has standard SMA connectors, not the reverse polarity SMA connectors typically found on WiFi equipment. Standard and reverse SMA connectors will not mate; nor will they mate with the "F" connectors found on most consumer video equipment (TV, cable boxes, etc.).

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Specifications

Parameter	Rating
Connector 1	SMA Male (Inline Plug)
Connector 2	SMA Female (Inline Jack)
Cable Length	50 ft (15.24m)
Coax Type	Low-loss CFD400-E ¹ (0.405 inch / 10.3 mm diameter) Meets or exceeds specifications of LMR400 ² Not rated for direct burial or plenum applications
Jacket Material	Polyethylene (PE)
Color	Black
Impedance	50 Ohm
Capacitance	76.0 pF/ft
Velocity of Propagation	85%
Minimum Bend Radius	1.0 inch (25.4 mm)
Operating Temperature	-40°F to +185°F (-40°C to +85°C)

Signal Attenuation Including Connectors

Frequency (MHz)	Loss (dB)
700	1.9
900	2.2
1700	3.1
1900	3.3
2400	3.7
2700	4.0
5000	5.6
5800	6.1

Operation outside the parameter ranges given above may cause permanent damage.

¹CFD is a trademark of Raison Enterprise Co. Ltd. (Commate)

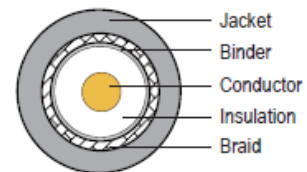
²LMR is a trademark of Times Microwave Corporation

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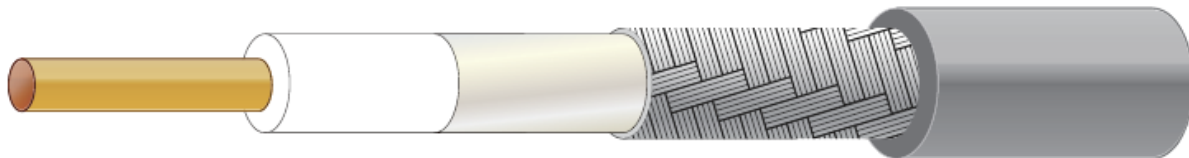


Mechanical Dimensions

CFD400 Coaxial Cable



Structure Figure



Conductor	Insulation	Binder	Single Braid	Jacket
Material Solid Copper Clad Aluminum Wire	Material Foam polyethylene	Material Aluminum/PE Tape	Material Tinned copper wire	Material PE / PVC
Diameter Approx. 2.74 mm	Diameter Approx. 7.24 mm	Diameter Approx. 7.35 mm	Coverage 85%	Color Black
			Diameter Approx. 8.1 mm	Diameter Approx. 10.3 mm

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RoHS
COMPLIANT

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NO.	DESCRIPTION	QTY	MATERIAL	P/N
5	PRINTED HEAT SHRINK TUBE	1	Ø10,0mm , L=30mm	B5032801
4	ADHESIVE HEAT SHRINK TUBE	2	ø3/4" , L=30mm	52013400
3	CONNECTOR	1	SMA(F) S/T Bulkhead Jack	05011426
2	CONNECTOR	1	SMA(M) S/T Plug	05010126
1	CABLE(BLACK)	1	CFD-400E-LW	39010196

GENERAL TOLERANCES
DIM: .X±0.25(0.01) .XX±0.12(0.005)
ANGULAR: ±5°

DIMENSION CLASSIFICATION
☒ : CRITICAL ☐ : MAJOR

MATERIAL : SEE TABLE
FINISH : SEE TABLE

DRAWN BY: David CHK'D BY: Vanessa
APP'D BY: James SCALE : 1 : 1

TITLE: SMA(M) S/T Plug / CFD-400E-LW /
SMA(F) S/T Bulkhead Jack , L=15240mm

DWG. NO.: 20181113-02

REV 2

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LTR

REVISION RECORD

ECN

DR / CHK

DATE

REVISE ONLY ON CAD SYSTEM

SHEET 1 OF 1

UNIT: mm

FILE, NO.: F:\Drawing\20181113

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Additional Product Images



SMA Male



SMA Female



Look for the Logo Band
on Genuine Proxicast
Cable Assemblies



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Installation Instructions

- Observe minimum bend radius during installation and handling
- Do not cut or splice
- Minimize the number of connectors and total length of the cable run
- Fully tighten coax connectors to antenna connectors
- Weather seal outdoor coax connections
- Install in-line lightning protection if required by local building, fire, insurance or safety codes
- Not rated for direct burial or plenum applications

Contact Information

For the latest specifications, additional product information, worldwide sales and information about Proxicast:

Web: www.proxicast.com Tel: 1-877-777-7694

Email: sales@proxicast.com 1-412-213-2477

Proxicast • 312 Sunnyfield Drive, Suite 200 • Glenshaw, PA 15116 USA

For technical questions and application information:

Email: support@proxicast.com

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