

ANT-140-020-50

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



Applications

- 3G/4G/LTE 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-140-020-50	Proxicast 50 ft Low-Loss Coax Extension Cable (50 Ohm) - SMA Male to N Male

General Description

Proxicast's ANT-140-020-50 SMA coax cable is the perfect solution for extending 3G/4G/LTE, GPS, ADS-B or other antennas with N Female connectors up to 50 ft from their radio source. It can also be used to connect to inline lightning arresters, amplifiers or other equipment with N-Female connectors.

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 (700 – 2700 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 a standard SMA connector, not the reverse polarity SMA connector 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	N Male (Inline Plug)
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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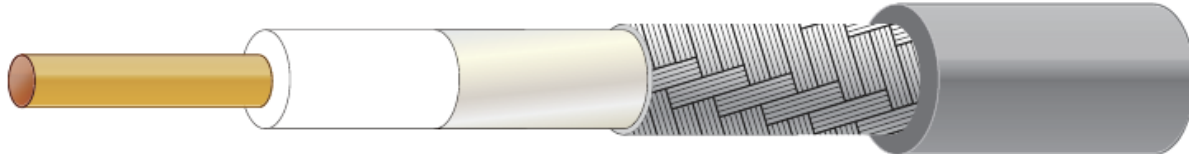
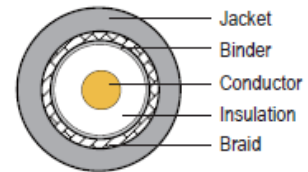
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Mechanical Dimensions

CFD400 Coaxial Cable

Structure Figure



Conductor

Material
Solid Copper Clad Aluminum Wire

Diameter
Approx. 2.74 mm

Insulation

Material
Foam polyethylene

Diameter
Approx. 7.24 mm

Binder

Material
Aluminum/PE Tape

Diameter
Approx. 7.35 mm

Single Braid

Material
Tinned copper wire

Coverage
85%

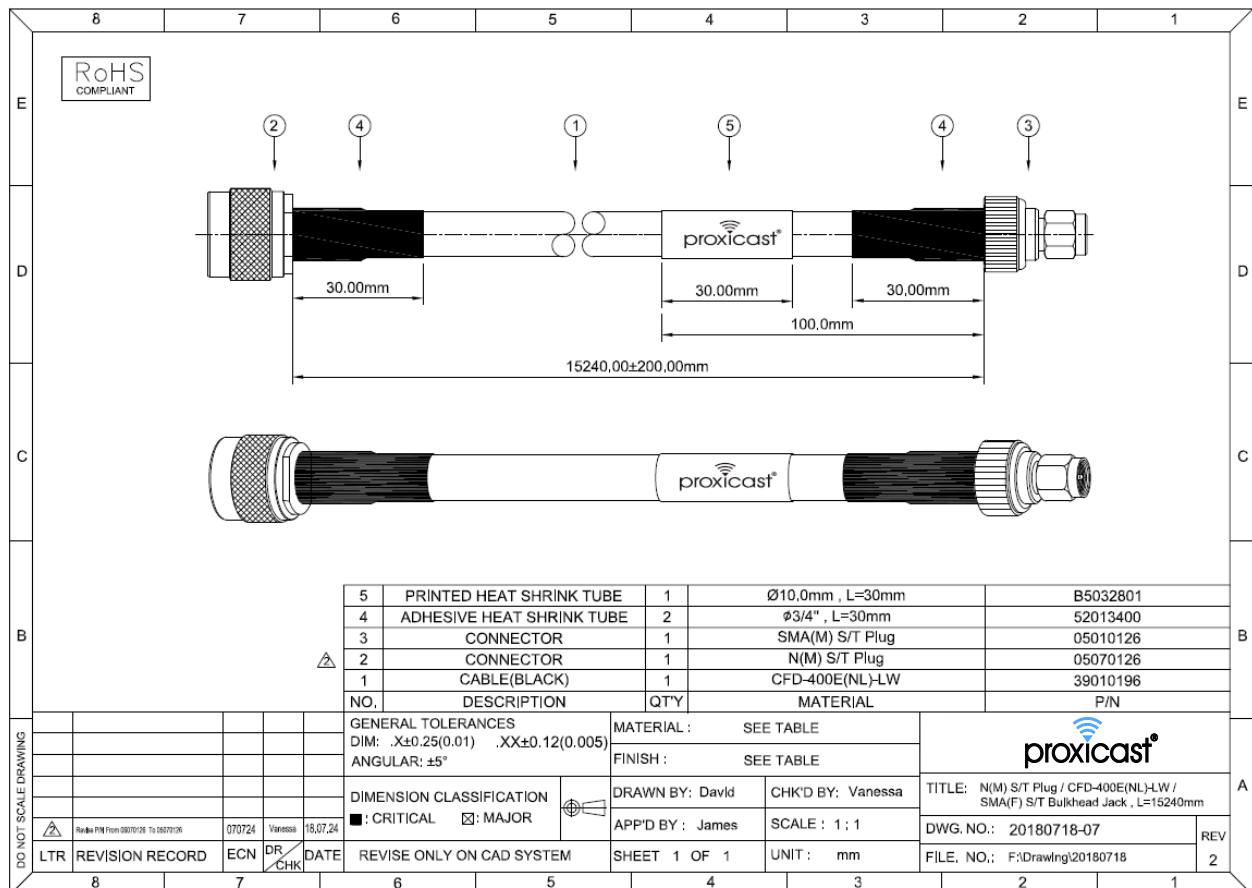
Diameter
Approx. 8.1 mm

Jacket

Material
PE / PVC

Color
Black

Diameter
Approx. 10.3 mm



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Additional Product Images



SMA Male



N Male



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

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Email: support@proxicast.com

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