ANT-310-420-36
36 ft N Male to RPSMA Male Coax Cable (400 size)

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Applications

- WIFI Hotspots, Routers, Access Points
- Helium (HNT) Miners
- LoRa, ZigBee, Bluetooth Radio Equipment
- Lightning Arresters, RFID Systems

Product Features

- N Male Connector
- Reverse Polarity SMA Male 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 High Frequencies

Ordering Information

Part No.	Description
ANT-310-420-36	Proxicast 36 ft Low-Loss CFD400 Coax Extension Cable (50 Ohm) - N Male to RPSMA Male

General Description

Proxicast's ANT-310-420-36 N Male to RPSMA Male coax cable is the perfect solution for connecting WiFi, Helium, Bluetooth ZigBee, or LoRa radio to external antennas with N Female connectors up to 36 ft from their radio source. It can also be used to connect to inline lightning arresters, amplifiers or other equipment with N-Female and RPSMA 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.

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.

Disclaimer: Subject to change without notice

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Specifications

Parameter	Rating
Connector 1	N Male (Inline Plug)
Connector 2	RP-SMA Male (Inline Plug)
Cable Length	36 ft (11 m)
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%
VSWR	Max 1.3 @ 30 – 2500 MHz
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	1.4
900	1.6
1700	2.3
1900	2.4
2400	2.7
2700	2.9
5000	4.1
5800	4.4

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

[1]CFD is a trademark of Raison Enterprise Co. Ltd. (Commate) Taiwan
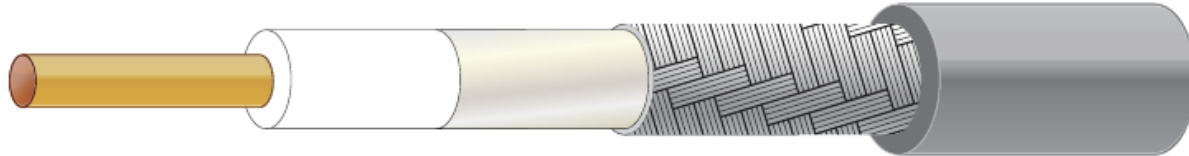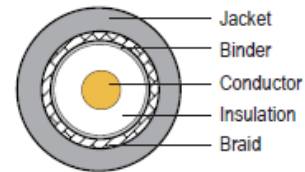[2]LMR is a trademark of Times Microwave Corporation USA

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Mechanical Dimensions

CFD400 Coaxial Cable

Structure Figure

Jacket
Binder
Conductor
Insulation
Braid

Conductor

Material
Solid Copper Claded Aluminum Wire

Diameter
Approx. 2.74 mm

Insulation

Material
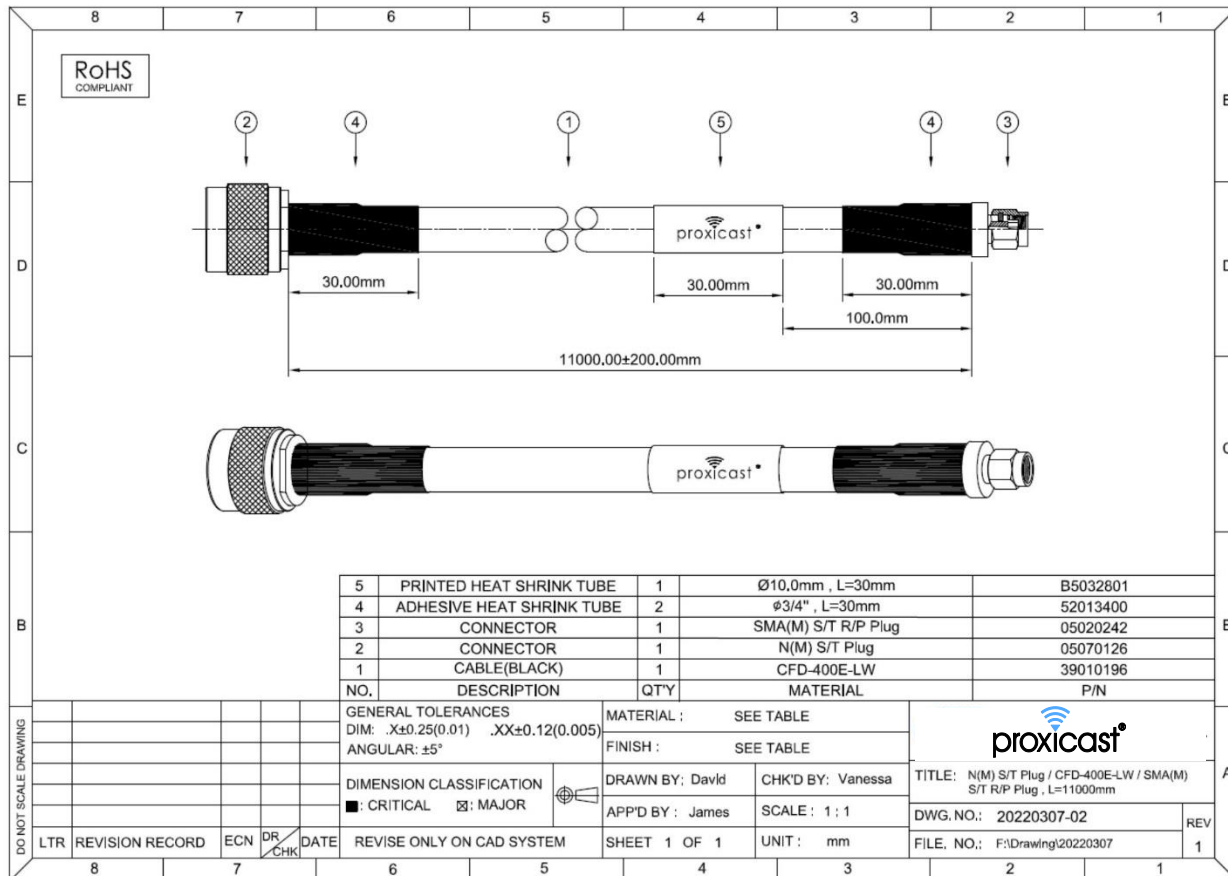Foam polyethylene

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 /

Color
Black

Diameter
Approx. 10.3 mm

RoHS COMPLIANT

30.00mm   30.00mm   30.00mm   100.0mm

11000.00±200.00mm

NO.	DESCRIPTION	QT'Y	MATERIAL	P/N
5	PRINTED HEAT SHRINK TUBE	1	Ø10.0mm , L=30mm	B5032801
4	ADHESIVE HEAT SHRINK TUBE	2	φ3/4" , L=30mm	52013400
3	CONNECTOR	1	SMA(M) S/T R/P Plug	05020242
2	CONNECTOR	1	N(M) S/T Plug	05070126
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
SHEET 1 OF 1   UNIT : mm

DO NOT SCALE DRAWING
LTR | REVISION RECORD | ECN | DR/CHK | DATE | REVISE ONLY ON CAD SYSTEM

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TITLE: N(M) S/T Plug / CFD-400E-LW / SMA(M) S/T R/P Plug , L=11000mm
DWG.NO.: 20220307-02   REV
FILE, NO.: F:\Drawing\20220307   1

Data Sheet: Rev A 01/19/22

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Additional Product Images

N Male

Reverse Polarity SMA 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**

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

For technical questions and application information:

Email: **support@proxicast.com**

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