

# ANT-140-020-15

## 15 ft SMA Male to N Male Coax Cable (240 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
- N Male
- 50 Ohm Solid Copper Core
- Thin and Flexible
- Gold Plated Signal Pins
- PE Outer Jacket - 0.240 inch Diameter
- Heat Shrink Tubing on Connectors
- Low Signal Loss at Common Wireless Frequencies

### Ordering Information

| Part No.       | Description                                                                 |
|----------------|-----------------------------------------------------------------------------|
| ANT-140-020-15 | Proxicast 15 ft Low-Loss Coax Extension Cable (50 Ohm) - SMA Male to N Male |

### General Description

Proxicast's ANT-140-020-15 SMA to N coax cable is the perfect solution for extending 4G/5G, GPS, ADS-B or other antennas with N Female connectors up to 15 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.

CFD240 coax is the same diameter as RG8X but has far superior performance characteristics, matching or exceeding LMR240 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 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            | 15 ft (4.57m)                                                                                                                                                                 |
| Coax Type               | Low-loss CFD240-E <sup>1</sup> (0.240 inch / 6.1 mm diameter)<br>Meets or exceeds specifications of LMR240 <sup>2</sup><br>Not rated for direct burial or plenum applications |
| Jacket Material         | Polyethylene (PE)                                                                                                                                                             |
| Color                   | Black                                                                                                                                                                         |
| Impedance               | 50 Ohm                                                                                                                                                                        |
| Capacitance             | 79.0 pF/ft                                                                                                                                                                    |
| Velocity of Propagation | 84%                                                                                                                                                                           |
| Minimum Bend Radius     | 0.75 inch (19.1 mm)                                                                                                                                                           |
| Operating Temperature   | -40°F to +185°F (-40°C to +85°C)                                                                                                                                              |

## Signal Attenuation Including Connectors

| Frequency (MHz) | Loss (dB) |
|-----------------|-----------|
| 700             | 1.1       |
| 900             | 1.3       |
| 1700            | 1.8       |
| 1900            | 1.9       |
| 2400            | 2.2       |
| 2700            | 2.3       |
| 5000            | 3.2       |
| 5800            | 3.5       |

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

<sup>1</sup>CFD is a trademark of Raison Enterprise Co. Ltd. (Commate)

<sup>2</sup>LMR is a trademark of Times Microwave Corporation

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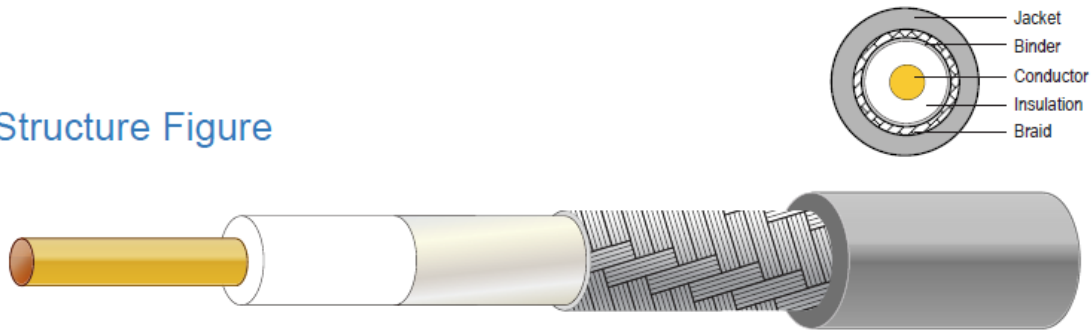
15 ft SMA Male to N Male Coax Cable (240 size)



## Mechanical Dimensions

### CFD240 Coaxial Cable

#### Structure Figure



#### Conductor

Material  
Solid Copper Wire

Diameter  
Approx. 1.42 mm

#### Insulation

Material  
Foam polyethylene

Diameter  
Approx. 3.81 mm

#### Binder

Material  
Aluminum/PE Tape

Diameter  
Approx. 3.92 mm

#### Single Braid

Material  
Tinned copper wire

Coverage  
84%

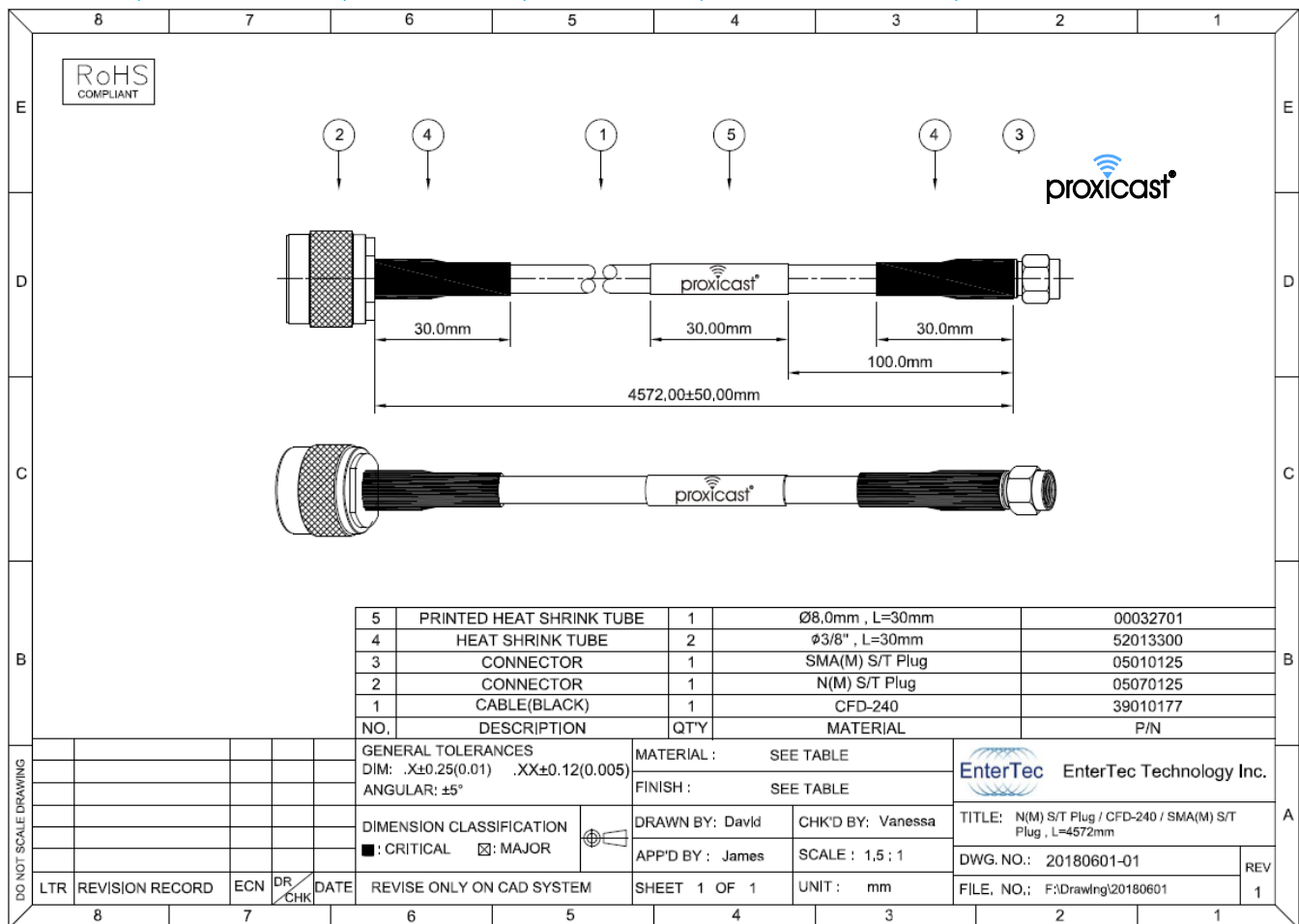
Diameter  
Approx. 4.5 mm

#### Jacket

Material  
PE or Non Lead PVC

Color  
Black

Diameter  
Approx. 6.1 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](http://www.proxicast.com) Tel: 1-877-777-7694

Email: [sales@proxicast.com](mailto:sales@proxicast.com) 1-412-213-2477

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For technical questions and application information:

Email: [support@proxicast.com](mailto:support@proxicast.com)

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