### SMA Male to N Male Coax Cable Assemblies



## **Applications**

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

#### **Product Features**

- SMA Male Connector
- N Male Connector
- 50 Ohm Solid Core
- Thin and Flexible
- · Gold Plated Signal Pins
- PE Outer Jacket
- Heat Shrink Tubing on Connectors
- Low Signal Loss at Common Wireless Frequencies



### **Ordering Information**

Part No.	Description
ANT-140-020-03	3 ft Low-Loss CFD195
ANT-140-220-03	3 ft Low-Loss CFD240
ANT-140-020-10	10 ft Low-Loss CFD195
ANT-140-020-15	15 ft Low-Loss CFD240
ANT-140-020-25	25 ft Low-Loss CFD240
ANT-140-420-25	25 ft Low-Loss CFD400
ANT-140-020-36	36 ft Low-Loss CFD400
ANT-140-020-50	50 ft Low-Loss CFD400
ANT-140-020-75	75 ft Low-Loss CFD400

### **General Description**

Proxicast's ANT-140-020 SMA/M to N/M series coax cable assemblies are the perfect solution for connecting 4G/5G or other antennas with N-Female connectors to 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.

CFD195 coax is the same diameter as RG-58 and RG-316 but has far superior performance characteristics, matching or exceeding LMR195 cable. CFD240 coax is the same diameter as RG8X but matches or exceeds LMR240 cable. CFD400 coax is the same diameter as RG8 but has performance characteristics matching or exceeding LMR400 cable.

The cable's tough polyethylene jacket withstands abrasions and provides excellent moisture resistance. These cable assemblies 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 Lengths	3 ft (0.914 m) 10 ft (3.048 m) 15 ft (4.572 m) 25 ft (7.620 m) 36 ft (10.973 m) 50 ft (15.240 m) 75 ft (22.860 m)					
Coax Types	Low-loss CFD195-E (0.195 inch / 5 mm diameter) Low-loss CFD240-E (0.240 inch / 6.1 mm diameter) Low-loss CFD400-E (0.400 inch / 10.3 mm diameter) Meets or exceeds Times Microwave® LMR¹ equivalent diameter coax Not rated for direct burial or plenum applications					
Jacket Material	Polyethylene (PE)					
Color	Black					
Impedance	50 Ohm					
Capacitance	24.3 pF/ft					
Velocity of Propagation	80%					
Minimum Bend Radius	CFD195: 0.5 inch (12.7 mm)  CFD240: 0.75 inch (19.1 mm)  CFD400: 1.0 inch (25.4 mm)					
Operating Temperature	-4°F to +140°F (-20°C to +60°C)					

# Signal Attenuation (dB) Including Connectors

Frequency (MHz)	CFD	)195	CFD240			CFD400			
Length	3'	10'	3'	15'	25'	25'	36'	50'	75'
700	0.4	1.1	0.3	1.1	1.9	1.0	1.4	1.9	2.9
900	0.4	1.3	0.3	1.3	2.1	1.1	1.6	2.2	3.3
1700	0.6	1.8	0.4	1.8	3.0	1.6	2.3	3.1	4.7
1900	0.6	1.9	0.5	1.9	3.2	1.7	2.4	3.3	4.9
2400	0.7	2.1	0.5	2.2	3.6	1.9	2.7	3.7	5.6
2700	0.8	2.3	0.6	2.3	3.8	2.0	2.9	4.0	6.0
5000	1.1	3.2	8.0	3.2	5.3	2.9	4.1	5.6	8.4
5800	1.1	3.4	0.8	3.5	5.7	3.1	4.4	6.1	9.2

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

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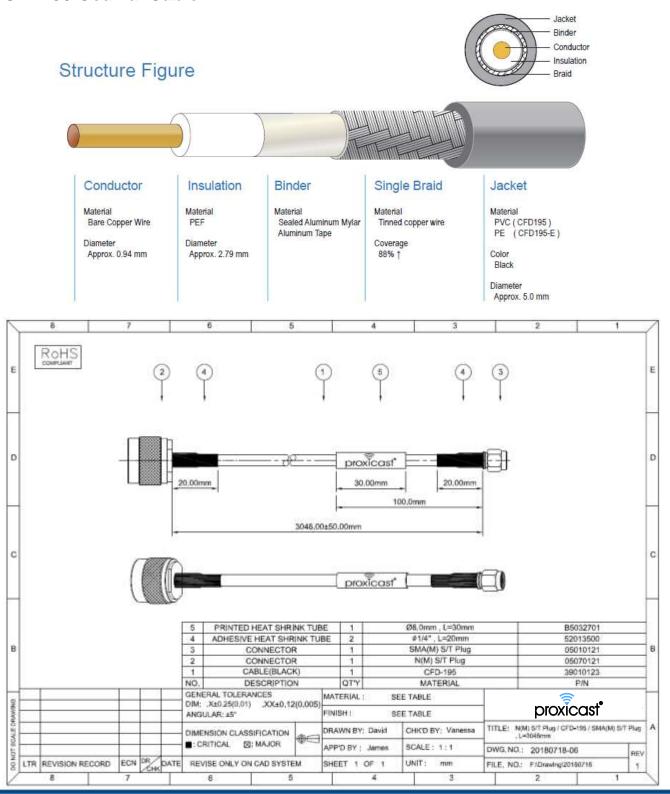
<sup>&</sup>lt;sup>1</sup>LMR is a trademark of Times Microwave Corporation

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### **Mechanical Dimensions**

### **CFD195 Coaxial Cable**



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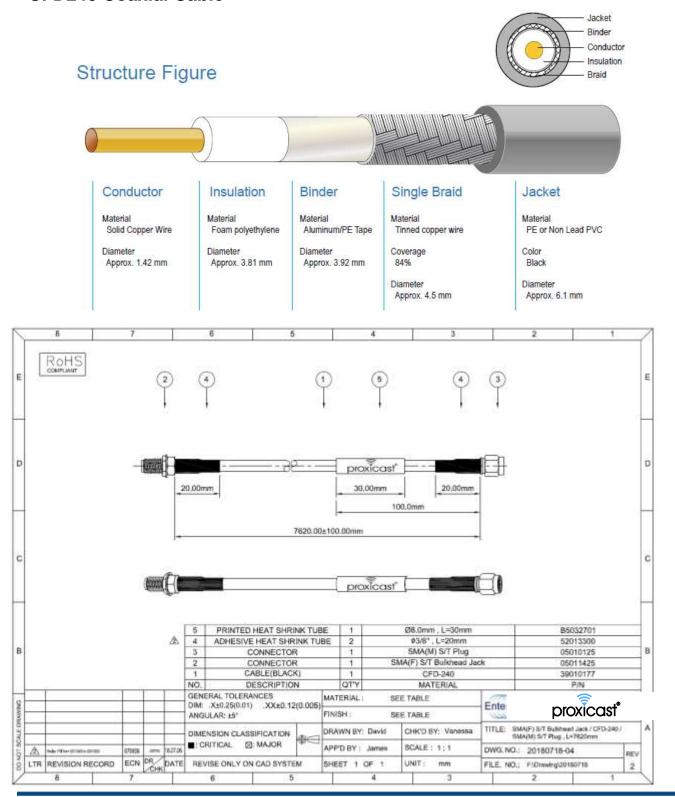
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### **Mechanical Dimensions**

#### **CFD240 Coaxial Cable**



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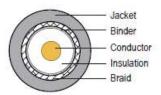
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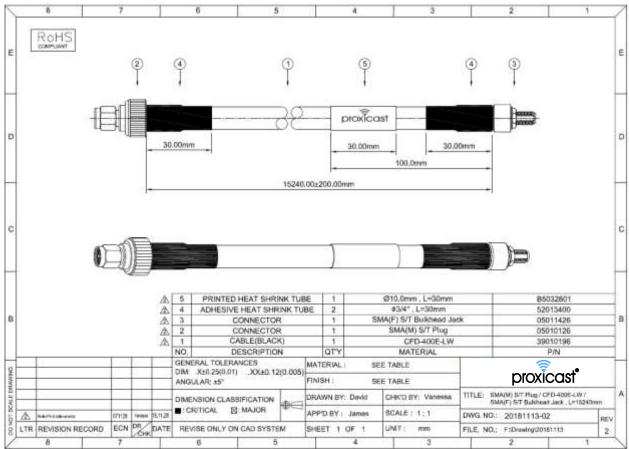
### **Mechanical Dimensions**

### **CFD400 Coaxial Cable**

# Structure Figure







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## **Additional Product Images**







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**

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