ANT-141-020-xx

SMA Male to N Male UltraFlex Coax Cable (240 size)

Applications

- 3G/4G/LTE 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
- Thin and Super Flexible – Min Bend Radius = 0.75”
- 19 Strand Copper Core - 50 Ohm
- Double Shielding
- Gold Plated Signal Pins
- TPE Outer Jacket - 0.240” Diameter
- Heat Shrink Tubing on Connectors
- Lower Signal Loss than RG58 or RG8X

Ordering Information

Part No.	Description
Proxicast Low-Loss 50 Ohm UltraFlex-240 Coax Cable - SMA Male to N Male	
ANT-141-020-02	2 feet
ANT-141-020-06	6 feet
ANT-141-020-12	12 feet

General Description

Need to fit coax cables into tight spaces or route them around corners? Unlike traditional stiff coax, UltraFlex-240 cables have a minimum bend radius of only 3/4-ths of an inch; they go where you want them - not just where the cable wants to go without the high signal loss inherent with thin coax.

UltraFlex-240 stranded solid copper signal conductors, flexible aluminum inner shield, braided outer shield and soft thermoplastic elastomer (TPE) jacket gives the cable unmatched performance, flexibility and excellent weather resistance for indoor or outdoor applications. The gold-plated signal pins are soldered to the conductors; heat shrink tubing is applied over all connector ferrules.

UltraFlex-240's 19 strand copper core and double shielded construction deliver the lowest loss of any 0.24 inch or smaller flexible cable.

Use this cable to connect SMA radio sources such as modems, routers, RF transceivers, etc. to the female N connector found on many external fixed mount antennas (e.g. Yagi, directional panel, sector, fiberglass omni-directional).

Proxicast’s cable assemblies are made to exacting standards with the highest quality components and 100% tested in our ISO 9001 compliant facilities.

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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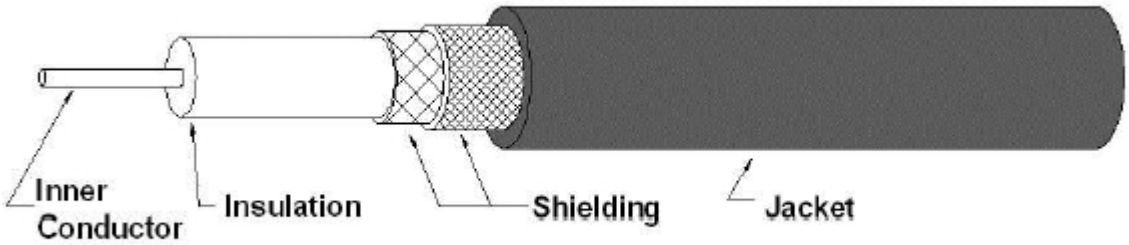
Specifications

Parameter	Value
Connector 1	SMA Male (Inline Plug)
Connector 2	N Male (Inline Plug)
Cable Length	2, 6 or 12 ft
Coax Type	Low-loss HDF240-UF (0.240 inch / 6.1 mm diameter) Meets or exceeds specifications of LMR-240-UF[1] Not rated for direct burial or plenum applications
Inner Conductor	19 strands of 0.29mm solid copper wire (1.45mm dia)
Insulation	3.80 mm Gas Injected Foam Polyethylene
Inner Shield	3.95 mm Bonded AL/PET/AL Tape Wrapped
Outer Shield	4.5mm Tinned Copper Wire Braid (95% coverage)
Jacket Material	Thermoplastic Elastomer (TPE) Nominal OD 0.24in (6.1mm)
Color	Black
Impedance	50 Ohm
Max VSWR (0-3000 MHz)	1.15 @ 2ft; 1.2 @ 6ft; 1.3 @ 12 ft
Capacitance	24.2 pF/ft
Velocity of Propagation	84%
DC Resistance (Conductor)	14.1 Ohms/km
DC Resistance (Shield)	12.8 Ohms/km
Voltage Withstand	1500 VDC
Minimum Bend Radius	0.75 inch (19.1 mm)
Operating Temperature	-40°F to +185°F (-40°C to +85°C)

Operation outside the parameter ranges given above may cause permanent damage

HDF240-UF Coaxial Cable



[1]LMR is a trademark of Times Microwave Corporation

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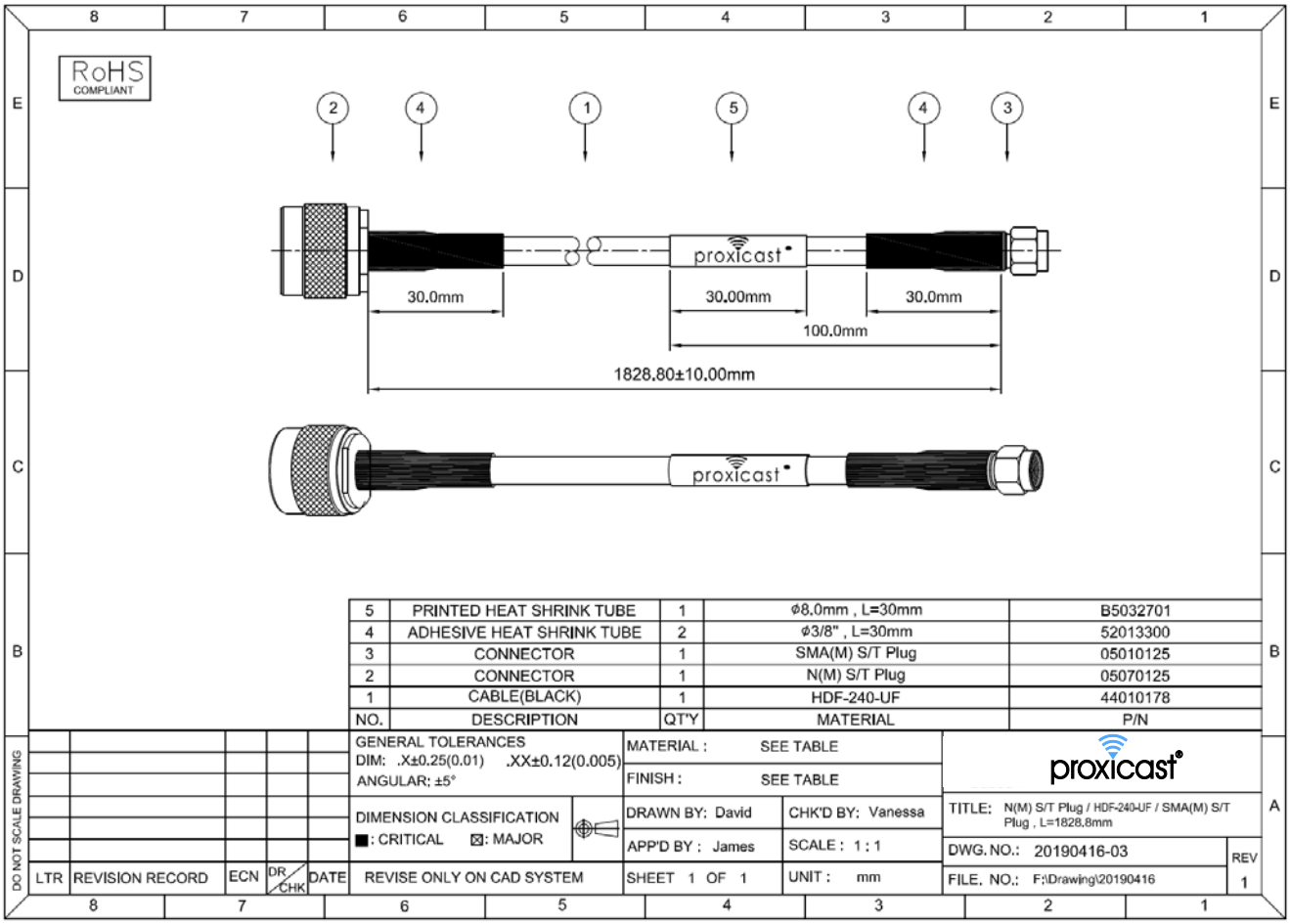
Signal Attenuation (dB) Including Connectors

Freq (MHz)	2 ft	6 ft	12 ft
30	0.0	0.1	0.2
50	0.1	0.2	0.3
150	0.1	0.3	0.5
220	0.1	0.3	0.6
450	0.2	0.5	0.9
700	0.2	0.6	1.1
900	0.3	0.7	1.3
1700	0.4	0.9	1.8
1900	0.4	1.0	1.9
2400	0.4	1.1	2.1
2700	0.5	1.2	2.2
5000	0.6	1.6	3.1
5800	0.7	1.8	3.4



NO.	DESCRIPTION	QT'Y	MATERIAL	P/N
5	PRINTED HEAT SHRINK TUBE	1	ϕ8.0mm , L=30mm	B5032701
4	ADHESIVE HEAT SHRINK TUBE	2	ϕ3/8" , L=30mm	52013300
3	CONNECTOR	1	SMA(M) S/T Plug	05010125
2	CONNECTOR	1	N(M) S/T Plug	05070125
1	CABLE(BLACK)	1	HDF-240-UF	44010178

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

MATERIAL : SEE TABLE
FINISH : SEE TABLE

DIMENSION CLASSIFICATION
■: CRITICAL ⊠: MAJOR

DRAWN BY: David | CHK'D BY: Vanessa
APP'D BY : James | SCALE : 1 : 1
SHEET 1 OF 1 | UNIT : mm

TITLE: N(M) S/T Plug / HDF-240-UF / SMA(M) S/T Plug , L=1828.8mm
DWG. NO.: 20190416-03 | REV 1
FILE. NO.: F:\Drawing\20190416

LTR	REVISION RECORD	ECN	DR / CHK	DATE
	REVISE ONLY ON CAD SYSTEM			

DO NOT SCALE DRAWING

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Additional Product Images

SMA Male

N Male

Look for the Logo Band
on Genuine Proxicast Coax Cables

N Male

SMA Male

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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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