

ANT-141-033-xx

PL-259 Male – PL-259 UltraFlex Coax Cable (240 size)



Applications

- Citizens Band (CB) Radios & Antennas
- Amateur (HAM) Equipment
- Short Wave Radios
- Most HF, VHF, UHF Devices
- Lightning Arresters
- SWR / Power Meters
- Scanners, Analyzers, Tuners, Transceivers



Product Features

- 2x PL-259 UHF Male Connectors
- 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 – PL-259 to PL-259 UHF Male |
| ANT-141-033-01 | 1 foot |
| ANT-141-033-02 | 2 feet |
| ANT-141-033-03 | 3 feet |
| ANT-141-033-06 | 6 feet |
| ANT-141-033-12 | 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 between radio sources such as RF transceivers to the SO-239 female connectors found on many external antennas and VHF/UHF devices.

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.

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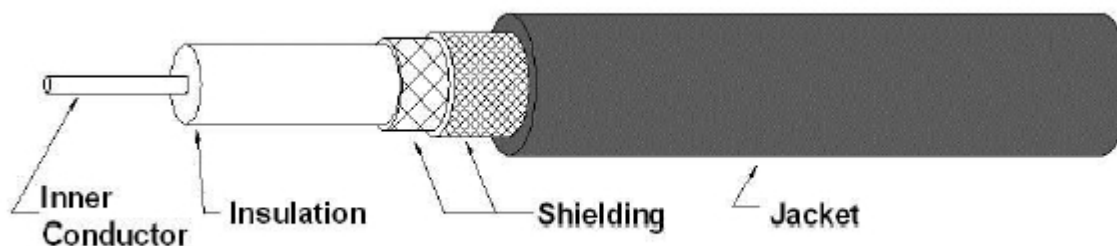


Specifications

| Parameter | Value |
|---------------------------|---|
| Connector 1 | PL-259 UHF Male |
| Connector 2 | PL-259 UHF Male |
| Cable Length | 1, 2, 3, 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



¹LMR is a trademark of Times Microwave Corporation

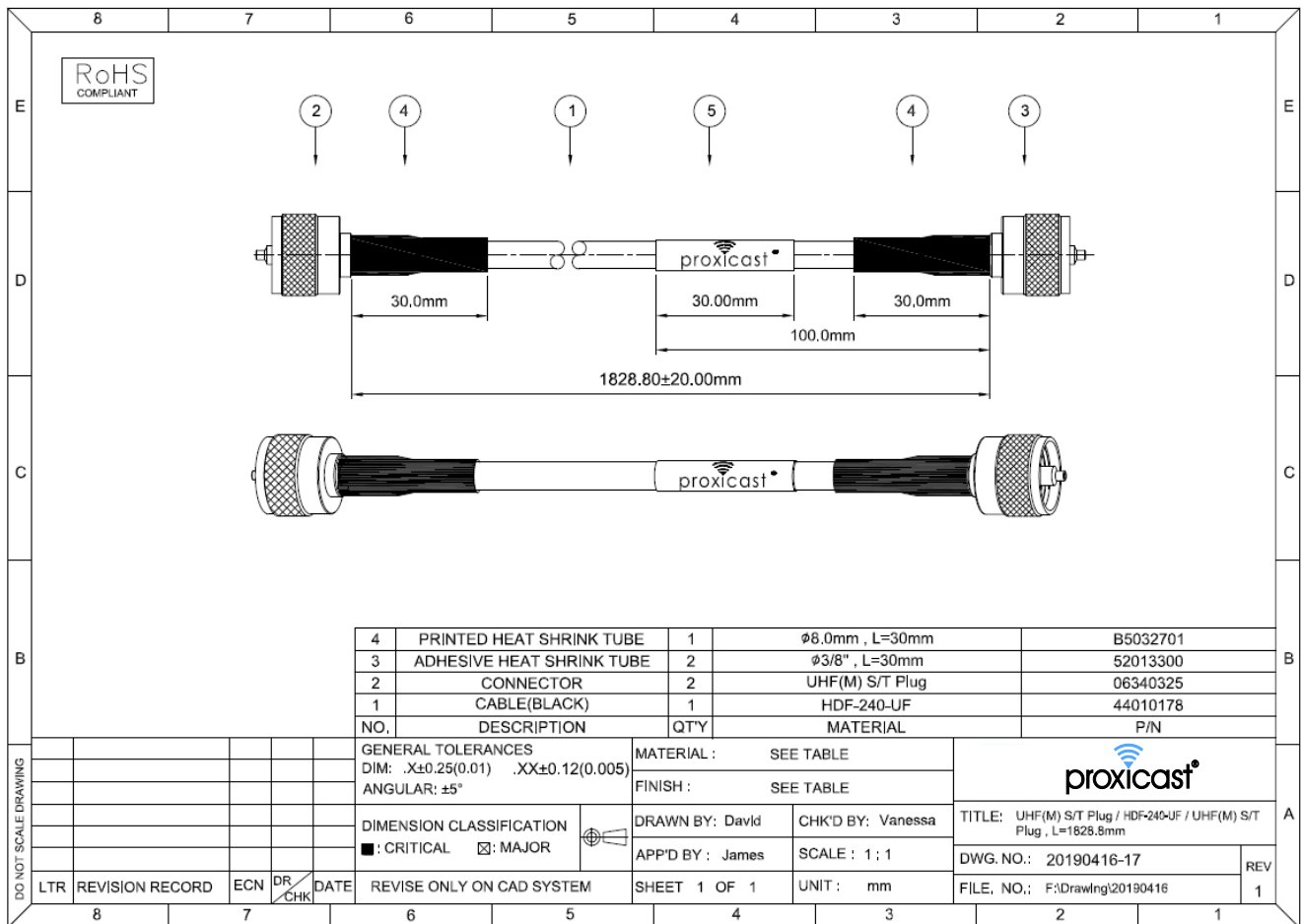
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Signal Attenuation (dB) Including Connectors

| Freq (MHz) | 1 ft | 2 ft | 3 ft | 6 ft | 12 ft |
|------------|------|------|------|------|-------|
| 30 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 |
| 50 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 |
| 150 | 0.1 | 0.1 | 0.1 | 0.3 | 0.5 |
| 220 | 0.1 | 0.1 | 0.2 | 0.3 | 0.6 |
| 450 | 0.1 | 0.2 | 0.3 | 0.5 | 0.9 |
| 700 | 0.1 | 0.2 | 0.3 | 0.6 | 1.1 |
| 900 | 0.2 | 0.3 | 0.4 | 0.7 | 1.3 |
| 1700 | 0.2 | 0.4 | 0.5 | 0.9 | 1.8 |
| 1900 | 0.2 | 0.4 | 0.5 | 1.0 | 1.9 |
| 2400 | 0.3 | 0.4 | 0.6 | 1.1 | 2.1 |
| 2700 | 0.3 | 0.5 | 0.6 | 1.2 | 2.2 |
| 5000 | 0.4 | 0.6 | 0.9 | 1.6 | 3.1 |
| 5800 | 0.4 | 0.7 | 1.0 | 1.8 | 3.4 |



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Additional Product Images



UHF Male
PL-259

Don't try this with regular coax!



Proxicast
HDF UltraFlex-240

Look for the Logo Band
on Genuine Proxicast Coax Cables



HDF UltraFlex-240



UHF Male
PL-259

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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:

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