LP-C400 400 Series 50 Ohm Ultra low losses

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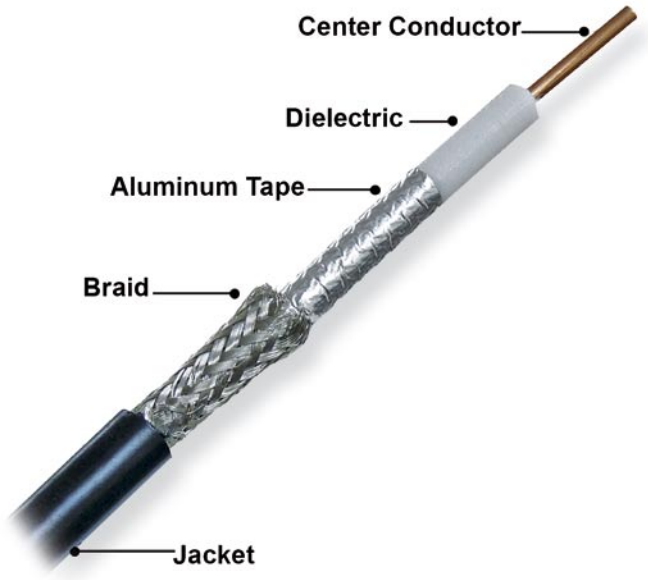

Characteristics

- Antenna Cable Runs to Base Stations, Access Points (AP), Bridges or CPE.
- Cabling between any WiFi or WiMax antenna and the associated equipment.
- Indoor or Outdoor Use.
- Direct Bury or Tower Use.
- Land Mobile Radio (LMR).
- Local Multi-Point Distribution System (LMDS).
- Multi-Channel Multi-Point Distribution Service (MMDS).
- Wireless Local Loop (WLL).
- Personal Communication Systems (PCS).
- GPS.
- SCADA.
- Ham Radio.

LP-C400 400 Series 50 Ohm Ultra low losses Coaxial Cable.

This is an ultra-low-loss 50 ohm coaxial cable ideal for RF deployment. This 400-Series cable offers equivalent or better characteristics and performance than other existing industry cables such as Commscope WBC-400*, Times Microwave LMR-400*, Andrew CNT-400*, etc. This cable size is the most demanded and widely used coaxial cable in the wireless industry.

The LP-C400 is our superior Lower Loss-per-meter 400-Series coaxial cable offered. It is manufactured with a polyethylene (PE) jacket which is UV resistant, and is built to withstand harsh temperatures, grease, oil, chemicals, salt water and abrasion, offering a 15 year plus lifespan. The LP-C400 with a tough PE jacket is especially suited for long life outdoor use.

If your application is direct burial, our LP-C400 is also the best choice with its polyethylene jacket (PE). Other jacket materials, such as polyvinyl chloride (PVC), TPE, etc. are not well suited for direct burial. While PE jackets do not offer the same flexibility as other materials, this is the only material that any experienced engineer will recommend for a direct burial application for long term survivability underground. We recommend the use of metallic conduits for a more professional and long lasting application, but the LP-C400 can take lots of stress without damage. We have the right size connectors to match our 400 cable. We recommend crimp style only as it performs better than other tool-less variants.

***Registered Trademarks by other manufacturers.**

Specifications

Cable Type	Attenuation (Loss) @ 2.4GHz	Attenuation (Loss) @ 5.8 GHz
RG-58	24.775 dB/100foot 81.288 dB/100m	41.122 dB/100foot 134.921 dB/100meter
100 Series	38.916 dB/100foot 127.685 dB/100m	64.098 dB/100foot 210.307 dB/100meter
195 Series	18.61 dB/100foot 61.061 dB/100m	29.903 dB/100foot 98.113 dB/100meter
200 Series	16.512 dB/100foot 54.178 dB/100m	26.353 dB/100foot 86.464 dB/100meter
240 Series	12.651 dB/100foot 41.509 dB/100m	20.35 dB/100foot 66.769 dB/100meter
400 Series	6.614 dB/100foot 21.703 dB/100m	10.821 dB/100foot 35.504 dB/100meter
600 Series	4.325 dB/100foot 14.19 dB/100m	7.261 dB/100foot 23.825 dB/100meter

Mechanical Specifications

Performance Characteristics	Unit	US (ºF)	Metric (ºC)
Minimum Bend Radius	in.-mm	1	25.4
Tensile Strength	lb-kg	160	72.6
Cable weight	Lb/ft – kg/m	0.068	0.1
Operating Temperature Rating	F - C	-40º to 185º	-40º to 85º

Electrical Specifications

Performance Characteristics	Unit	US	Metric
Cutoff Frequency	GHZ	16.2	16.2
Peak Power	KW	16.0	16.0
Velocity of Propagation	%	85.0	85.0
Impedance	Ohm	50.0	50.0
Capacitance	pF/ft – pF/m	23.9	78.4
DC Resistance –Inner Conductor	Ohm/1000ft – Ohm/km	1.32	4.30
DC Resistance –Outer Conductor	Ohm/1000ft – Ohm/km	2.10	6.80
Shielding Effectiveness	db	>90	>90
Copper Plated Braid Coverage	%	>93	>93
Aluminum Foil Coverage	%	100	100
Jacket Spark	Volts RMS	4000	4000

Attenuation and Average Power

Frequency (MHz)	dB/100 ft	dB/100 m	AV. Power (kW)
30	0.7	2.2	3.33
50	0.9	2.9	2.57
150	1.5	5.0	1.47
220	1.9	6.1	1.20
450	2.7	8.9	0.83
800	3.7	12.0	0.61
900	3.9	12.8	0.58
1500	5.1	16.8	0.44
1800	5.7	18.6	0.40
2000	6.0	19.6	0.37
2200	6.3	20.7	0.36
2400	6.6	21.7	0.34
2500	6.8	22.2	0.33
3500	8.1	26.7	0.27
5800	10.8	35.5	0.21

Terminology Note: This cable may also be referred to as: Commscope WBC-400, Times Microwave LMR-400, Andrew CNT-400, AIR802, etc., low loss coaxial cable or 50 Ohm coaxial cable.

How to Order

LP-C400 400 Series 50 Ohm Ultra Low losses Coaxial Cable.