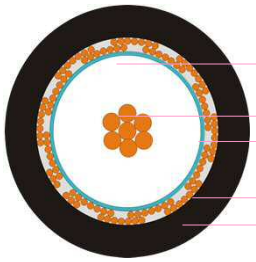
# CONNECTORS CABLES SPECIALISTS (CCS) LTD

# LLA400 UF ULTRA FLEXIBLE LOW LOSS ANTENNA CABLE

**Low Loss 50 OhmWireless RF Transmission Cable**

## Cross Section




## Cable Description

| | |
|---|---|
| ***Inner Conductor*** | Stranded BC 10AWG（0.95 x7） |
| Conductor Dia. | 2.74 +/-0.01mm |
| Min.Break Strength | 2200 N |
| ***Insulation*** | Foam P.E. |
| Insulation Dia. | 7.24 +/-0.15mm |
| Color | Neutral |
| Centricity | ⩾ 85 % |
| Adhesion | 10 to 100N @ 25mm |
| ***Shielding*** | AL/P-Foil（Bonded) |
| Foil overlap | ⩾ 120% |
| ***Outer Conductor*** | TC Wire Braid |
| Coverage | 90 +/-3% |
| ***Jacket*** | TPE |
| Outer Dia | 10.20 +/-0.15mm |
| Color | According to customer |
| ***Marking*** | |
| According to customer | |
| ***PACKAGING*** | |
| According to customer | |

## Electrical Charateristics

| | | |
|---|---|---|
| ***Characteristic Impedance*** | 50 | ± 2 ohm |
| ***Capacitance*** | 78 | pF/m |
| ***Velocity ratio*** | 85 | % |
| ***DCR: Inner Conductor*** | <3.51 | ohm/km |
| ***DCR: Outer Conductor*** | < 5.40 | ohm/km |
| ***Jacket Sparker*** | 8000 | VCA |
| ***Dielectric Strength*** | 2500 | VDC |
| ***Insulation resistance*** | > 10,000 | MΩ·km |
| ***Peak Power*** | 16 | kW |
| ***Shielding Effectiveness*** | >90 | dB |

| | | |
|---|---|---|
| ***SWR*** | 30-5800MHz | < 1.25 |

| ***Attenuation (at 20 ℃)*** | dB/100ft | dB/100m |
|---|---|---|
| 30 MHz | 0.80 | 2.70 |
| 50 MHz | 1.10 | 3.50 |
| 150 MHz | 1.80 | 6.10 |
| 220 MHz | 2.20 | 7.40 |
| 450 MHz | 3.30 | 10.70 |
| 900 MHz | 4.70 | 15.40 |
| 1500 MHz | 6.20 | 20.20 |
| 1800 MHz | 6.80 | 22.30 |
| 2000 MHz | 7.20 | 23.60 |
| 2500 MHz | 8.10 | 26.60 |
| 5800 MHz | 13.00 | 42.60 |

Maximum attenuation is 10% higher.

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## Mechanical Characteristics

| | |
|---|---|
| ***Min.Bending Radius:*** | |
| Installation | 25.40 mm |
| Repeated | 101.60 mm |
| ***Max.Pulling Tension*** | 725 |
| ***Crush resistance of cable*** *(load of 700N)* | < 1 % |
| ***Rated Temperature*** | |
| Storage/operating temperature | -40~+85 ℃ |
| Outdoor Installation | -5℃ |

## RoHS Guideline

| | |
|---|---|
| ***Cadmium content (Cd)*** | < 0.01 % |
| ***Lead content (Pb)*** | <0.1 % |
| ***Mercury content (Hg)*** | <0.1 % |
| ***Chromium (VI) content*** | <0.1 % |
| ***Polybrominated Biphenyls (PBB)*** | <0.1 % |
| ***Polybrominated Diphenyl Ether (PBDE)*** | <0.1 % |

## Revision History

| | |
|---|---|
| Defined by：Bob | Rev：A/0 |
| Prepared by: P Elwood | Date：2013-11-02 |
| Approved by：D.L. Chin | Page：1 of 1 |


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**Note: The specifications are subjected to change without prior notice**