

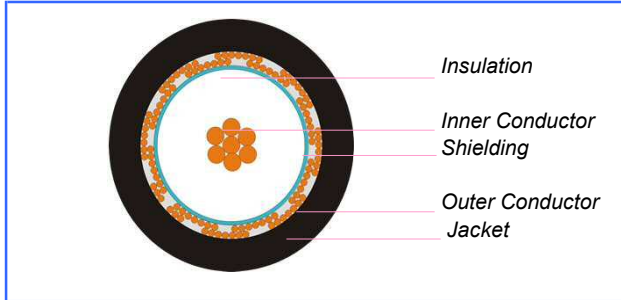
CONNECTORS CABLES SPECIALISTS (CCS) LTD

LLA400 UF ULTRA FLEXIBLE LOW LOSS ANTENNA CABLE



Low Loss 50 Ohm Wireless RF Transmission Cable

Cross Section



Electrical Characteristics

| | |
|---------------------------------|----------------|
| 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 |

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 |

| | | |
|-------------------------------|------------|---------|
| SWR | 30-5800MHz | < 1.25 |
| Attenuation (at 20 °C) | | |
| | 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.

CONNECTORS CABLES



SPECIALISTS LTD.

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Mechanical Characteristics

| | |
|---|------------|
| Min.Bending Radius: | |
| Installation | 35mm |
| Repeated | 100mm |
| Max.Pulling Tension | 725 |
| Crush resistance of cable (load of 700N) | < 1 % |
| Rated Temperature | |
| Storage/operating temperature | -40~+85 °C |
| Outdoor Installation | -5°C |

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