**Micro Cell Antenna**

**Dual Polarization**

**HPBW hor.**

**Fixed Electr. DT**

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4-Port MicroCell 1695–2690 85°/85° 7.5/7.5dBi 0°T

<table>
<thead>
<tr>
<th>Type No.</th>
<th>80010843</th>
</tr>
</thead>
</table>

**Use case**

Flexible Indoor Coverage

Flexible Street Level Micro Cell Coverage

Not for Macro Site Installation

Pole and wall mounting

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**Electrical data**

<table>
<thead>
<tr>
<th>Per sector</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency range</strong> MHz</td>
<td>1695 – 2690</td>
</tr>
</tbody>
</table>

**Polarization** 

° +45, –45

**Gain** dBi

7.5

**Horizontal Pattern:**

- Half-power beam width ° 85

- Cross polar ratio 0° 60° dB ≥ 18 typ. ≥ 8 typ.

**Vertical Pattern:**

- Half-power beam width ° 80

- Electrical tilt (upright installation) ° 0, fixed

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**Impedance** Ω

50 Ω

**VSWR**

- 1695–1710 MHz: < 1.6
- 1710–2200 MHz: < 1.5
- 2200–2690 MHz: < 1.6

**Isolation, between all ports** dB ≥ 25 (Intra- / Intersystem)

**Intermodulation IM3** dBc < –153 (2 x 43 dBm carrier)

**Max. power per input** W

50 (at 50 °C ambient temperature)

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**Mechanical specifications**

<table>
<thead>
<tr>
<th>Input</th>
<th>4 x 4.3-10 female (2 x top, 2 x bottom, covered by end cap)</th>
</tr>
</thead>
</table>

**Adjustment mechanism**

Two continuously rotatable antenna modules (radiator and reflector) within the radome (set by hand)

**Tilt adjustment mechanism**

Set by hand

Installation at right angle

Continuously for each sector (0° ... 360°)

**Azimuth adjustment mechanism** (upright installation)

Set by hand

Continuously for each sector (0° ... 360°)

**IP Protection class**

IP65

**Wind load** (at 150 km/h)

N lbf

25

5.6

**Max. wind velocity** km/h mph

160

99.4

**Feeder cables**

Max. ¼˝ High Flex (bending radius ≤ 25 mm | ≤ 1.0 inches)

Push pull and handscrew type, angular connector required

**Allowed diameter of mounting pole** mm inches

≥ 40

≥ 1.6

**Max. distance wall/pole when mounted** mm inches

190

7.5

**Height / diameter** mm inches

526 / 100

20.7 / 3.9

**Category of mounting hardware**

L (Light)

**Weight** kg lb

2.0

4.4

**Packing size** mm inches

547 / 242 / 174

21.5 / 9.5 / 6.9

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All specifications are subject to change without notice.

The latest specifications are available at www.kathreinusa.com
## Accessories

### General Information

#### Accessories (please order separately)

<table>
<thead>
<tr>
<th>Type No.</th>
<th>Description</th>
<th>Remarks mm</th>
<th>Weight approx. kg</th>
<th>Units per antenna</th>
</tr>
</thead>
<tbody>
<tr>
<td>734360</td>
<td>2 tension bands</td>
<td>34 – 60</td>
<td>0.06</td>
<td>0.13</td>
</tr>
<tr>
<td>734361</td>
<td>2 tension bands</td>
<td>60 – 80</td>
<td>0.07</td>
<td>0.15</td>
</tr>
<tr>
<td>734362</td>
<td>2 tension bands</td>
<td>80 – 100</td>
<td>0.08</td>
<td>0.18</td>
</tr>
<tr>
<td>734363</td>
<td>2 tension bands</td>
<td>100 – 120</td>
<td>0.09</td>
<td>0.20</td>
</tr>
<tr>
<td>734364</td>
<td>2 tension bands</td>
<td>120 – 140</td>
<td>0.11</td>
<td>0.24</td>
</tr>
<tr>
<td>734365</td>
<td>2 tension bands</td>
<td>45 – 125</td>
<td>0.08</td>
<td>0.18</td>
</tr>
</tbody>
</table>

**Antenna area:**

- **Reflector screen:** Aluminium.
- **Radiator:** Tin plated zinc.
- **Cylindrical fiberglass radome:** The max. radome diameter is only 100 mm | 3.9 inches. Fiber glass material guarantees optimum performance with regards to stability, stiffness, UV resistance and painting. The color of the radome is similar to light grey RAL 7035.
- **All screws and nuts:** Stainless steel.
Mounting Instructions:

- Take off the end cap
- Unfasten the M5 screw (for unfasten the antenna element)
- Adjust the antenna element orientation by using a 13hex-head screw driver
- Fasten the M5 screw to fix the antenna element
- Assemble the angular connectors with final cable guiding
- Use tension bands (order separately) for pole mounting and screws (incl.) for wall mounting
- Attach the end cap and fasten the M5 screw
Any previous data sheet issues have now become invalid.

All specifications are subject to change without notice. The latest specifications are available at www.kathreinusa.com
Strand Wire Mount Kit for Kathrein 800 10843 Micro-Cell Antenna

- Durable and flexible solution for strand wire mount applications
- Stainless steel construction with PIM Kote™ proprietary surface treatment to reduce PIM
- “C” brackets provide room for additional cabling on strand wire
- Pre-drilled holes provide multiple attachment and tie-down options for cables/splitters etc.

Cosmetic end cap in place allows use of 1/4” flex coax

Cosmetic end cap removed allows use of 1/2” flex coax

Ordering Information

840 02002 - Strand wire mount kit, includes 2 ea. U-Bolts for 3/8” - 1/2” strand wire

800 10843K - Antenna part number plus “K” suffix indicates kit that includes 800 10843 Micro-Cell antenna and 840 02002 Strand Wire Mount

All specifications are subject to change without notice. The latest specifications are available at www.kathreinusa.com
Strand Wire Mount Kit for
Kathrein 800 10843 Micro-Cell Antenna

Specifications:
Weight (antenna and mount) 15 lbs. (6.8 kg)

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The latest specifications are available at www.kathreinusa.com