



BAHAMA »JUMBRELLA CXL«  
25 to 37 m<sup>2</sup> on one pole resisting heavy weathers.  
Designed for excellence. Engineered for performance.

**BAHAMA**<sup>®</sup>  
*JUMBRELLA CXL*



# MADE IN GERMANY

## Design and Functional Criteria • Materials Surface Finishes • Membrane Fabric and Editions

### Opening, tensioning & closing function:

»BAHAMA-Servo-Mechanics«: Mass centre-balanced, auto-reversing telescoping system with 4-catch strength-reducing device and dual lockable latch.

### Structural alu members typical of CXL:

2.5-fold telescoping chambered-extrusion pole, exterior diameter 100 mm, wall thickness 3 mm.

Retracting & extending inner pole □ 50/50/3 mm.

- **12** carrier arms & compressional stretchers with each of the square CXL models, namely:
  - 4 diagonal arms & stretchers in the *MAGNUM* edition,
  - 8 inter-arms & stretchers in the diagonal *NNK* edition
- **12** carrier arms & compressional stretchers, all of them in the *MAGNUM* edition with the Ø 7.00m CXL model
- **4** articulated auto-reversing compressional members located in the diagonal axes of any CXL model (parts of the BAHAMA »Servo-Assisted Unfolding« system)
- **2** tension latches ea. with auto-engaging spring clip in V4A st.-st. alloy; latches forming part of the BAHAMA »Servo-Assisted Tensioning« system.

### Frame surface finish:

Modular-design alu members & components are PES powder-coated and baked at ≈ 200° C in RAL 9016/white. For a surchargeable option, they can be finished in any other RAL colour shade. This finish is durably resistant to salt water. Non-coated components & functional armatures such as tension rods, articulation axles, assembly screws, etc. are in V2A stainless steel – exception: spring clips which are in spec. V4A st.-st. alloy.



### Membrane fabric – structurally relevant:

»betex®05« – PES high-performance fabric in 22 BAHAMA standard plain col. shades (see col. swatch card):

*Any and all values indicated hereunder next were obtained by testing to the DIN EN (ISO) standards applicable respectively. They refer to factory-new fabric material and thus to factory-new membranes made of it.*

<b>Carrier fabric:</b>	polyester in <i>betex</i> ® texture
<b>Coating (on the upside):</b>	Digitally printable
<b>Fabric weight / coated:</b>	>200 g/m <sup>2</sup>
<b>Resistance to water pressure:</b>	>100 hPa (equivalent to 1000 mm water column)
<b>Col. fastness to sunlight:</b>	Grade 6-7.5 – varying with the very colour shade ("8" = best achievable grade)
<b>Col. fastness to weathering:</b>	Grade 6-7.5 – varying with the very colour shade ("8" = best achievable grade)
<b>Tensile strength in warp/weft:</b>	≈ 1645 N / ≈ 1480 N (5-cm strip width)
<b>Tear strength in warp/weft:</b>	>50 N / >60 N

### Exchangeable-type one-piece membrane:

- Not visible from underneath: Radially elastic, laterally caged guidance in all carrier arms; effect: well-balanced overall membrane tension stiffening structural roof sections vs. each other.
- Tension load-accumulating membrane sectors (about arm ends) are widely reinforced.
- Inwrought metal hooks are in V2A stainless steel.

### Membrane editions:

- |                        |  |
|------------------------|--|
| # 60 = »contemporary«: | <b>without</b> valance                   |
| # 90 = »traditional«:  | <b>with</b> ≈ 35 cm display-type valance |

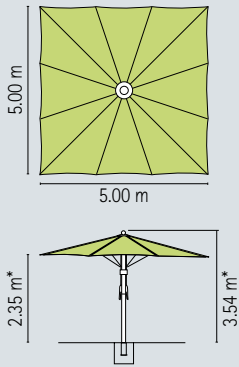
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**JUMBRELLA CXL**





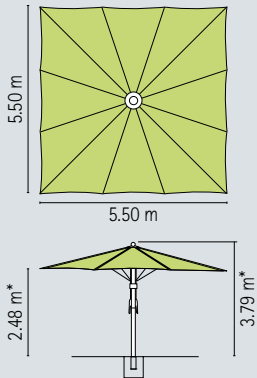


## Model #CXL-4150 □ 5.00 m = 25.00 m<sup>2</sup>



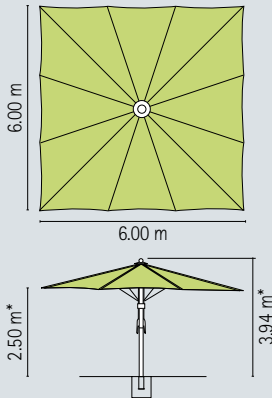
Overall elevation AFGL in CLOSED configuration:	≈ 4.50 m *
Least obstacle clearance during closing:	≈ 0.83 m *
Erection/handling weight (nett):	≈ 159 kg (includg. installation console)
Transport package measuring – Ø x length:	0.58 m x 4.70 m
Shipping weight (gross):	≈ 216 kg
"Forkliftable" package measuring:	<b>W/0.80 x H/0.70 x L/4.70 m</b> (forklift centre of long side)
"Forkliftable"/transloadable shipping weight:	≈ 261 kg
Max. allowable wind when OPEN:	(59 kts) 110 km/h **

## Model #CXL-4155 □ 5.50 m = 30.25 m<sup>2</sup>



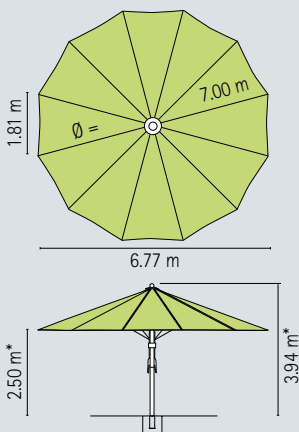
Overall elevation AFGL in CLOSED configuration:	≈ 4.89 m *
Least obstacle clearance during closing:	≈ 0.85 m *
Erection/handling weight (nett):	≈ 164 kg (includg. installation console)
Transport package measuring – Ø x length:	0.58 m x 5.10 m
Shipping weight (gross):	≈ 225 kg
"Forkliftable" package measuring:	<b>W/0.80 x H/0.70 x L/5.10 m</b> (forklift centre of long side)
"Forkliftable"/transloadable shipping weight:	≈ 270 kg
Max. allowable wind when OPEN:	(54 kts) 100 km/h **

## Model #CXL-4160 □ 6.00 m = 36.00 m<sup>2</sup>



Overall elevation AFGL in CLOSED configuration:	≈ 5.26 m *
Least obstacle clearance during closing:	≈ 0.80 m *
Erection/handling weight (nett):	≈ 177 kg (includg. installation console)
Transport package measuring – Ø x length:	0.58 m x 5.40 m
Shipping weight (gross):	≈ 242 kg
"Forkliftable" package measuring:	<b>W/0.80 x H/0.70 x L/5.40 m</b> (forklift centre of long side)
"Forkliftable"/transloadable shipping weight:	≈ 287 kg
Max. allowable wind when OPEN:	(49 kts) 90 km/h **

## Model #CXL-4070 Ø 7.00 m = 37.00 m<sup>2</sup> (edges of canopy projected vertically)



Overall elevation AFGL in CLOSED configuration:	≈ 5.13 m *
Least obstacle clearance during closing:	≈ 1.40 m *
Erection/handling weight (nett):	≈ 190 kg (includg. installation console)
Transport package measuring – Ø x length:	0.58 m x 5.40 m
Shipping weight (gross):	≈ 255 kg
"Forkliftable" package measuring:	<b>W/0.80 x H/0.70 x L/5.40 m</b> (forklift centre of long side)
"Forkliftable"/transloadable shipping weight:	≈ 300 kg
Max. allowable wind when OPEN:	(49 kts) 90 km/h **

\* bound to Finished Ground Level with original CXL in-ground/concrete console cast in flush with FGL  
 \*\* valid only for CXL structures installed permanent on one of the original CXL in-ground/concrete consoles

## Footing devices for permanent in-ground installation:

Suitable only for *CXL* structure without any additionally built-in electric equipment:



### Article no.: C-033-2XL

"Two-piece" Universal In-Ground Footing set consisting of:

- **In-Ground (concrete) Console:** Base plate steel HT-hot-dipped,  $\approx 33.8 \times 33.8 \times 1.2$  cm, with roll bearings welded onto (tipping joint for alternative erection without using a hoist). Supplied with temporary h.-d. "traffic cover" (prior erection of *CXL*) flush with finished ground level.
  - **Coming as factory-assembled basket** ready for being cast in to factory's setting & foundation drawing.Nett weight:  $\approx 24.5$  kg
- **Installation Console:** Base plate  $\approx 29.7 \times 29.7 \times 1.2$  cm with fixed roll bearings; receiving upright with 4 stiffening gussets welded onto. Console in steel HT-hot-dipped, additionally PES powder-coated & baked at  $\approx 200^\circ$  C in the *CXL*'s frame finish (standard colour: RAL 9016/white). Overall height:  $\approx 60$  cm.
  - **Coming factory-prefixed to the *CXL*'s pole.**Nett weight:  $\approx 17.5$  kg

Nett weight of the set:  $\approx 42.0$  kg

Required for any *CXL* structure with additional electr. equipment except »Heater«:



### Article no.: C-033-2XLE

"Two-piece" Universal In-Ground Footing set consisting of:

- **In-ground (concrete) Console:** Same as above, additionally, however, base plate with central passage for cable(s), centric cable surplus containment, and prefixed conduit of  $\approx 1.5$  m in length. - **Coming as factory-assembled basket** ready for being cast in to factory's setting & foundation drawing. Nett weight:  $\approx 28.0$  kg
- **Installation Console:** Basically same as part of # C-033-2XL, its base plate, however, with central passage for cable(s) and with a prefixed compressional O-ring sealing to prevent surface water from penetrating.
  - **Coming factory-prefixed to the *CXL*'s pole.**Nett weight:  $\approx 17.5$  kg

Nett weight of the set:  $\approx 45.5$  kg

Required for any *CXL* structure if with »Heater« (and eventual other electr. extra equipment):



### Article no.: CHIRA-033-2XL

"Two-piece" Universal In-Ground Footing set consisting of:

- **In-ground (concrete) Console:** Base plate  $50.8 \times 33.8 \times 1.2$  cm, equipped with fixed underground connector pit, solid "traffic covers" with prefixed compressional O-ring sealings, and additional prefixed conduit loop between connector pit and cable surplus containment.
  - **Coming as factory-assembled basket** ready for being cast in to factory's setting & foundation drawing.Nett weight:  $\approx 35.0$  kg
- **Installation Console:** Same as part of # C-033-2XLE.
  - **Coming factory-prefixed to the *CXL*'s pole.**Nett weight:  $\approx 17.5$  kg

Nett weight of the set:  $\approx 52.5$  kg



## Footing device for permanent on-ground (massive concrete) installation:

Suitable only for *CXL* structure without any built-in electric equipment:



### Article no.: C-034-2XL

"Two-piece" flat base console set consisting of:

- **On-Ground Base:** Heavy-duty/weight square base plate steel HT-hot-dipped, 62.0 x 62.0 x 2.0 cm, corners truncated slightly, with 8 sunk-head drill holes (for FISCHER h.-d. dowel-type bolts). Base coming without FISCHER anchor bolts, drill and Allen wrench (these optional accessories available on spec. request). Nett weight: ≈ 60.0 kg
- **Installation Console:** Same as with # C-033-2XL, **coming factory-prefixed to the *CXL*'s pole.** Nett weight: ≈ 17.5 kg

Nett weight of the set: ≈ 77.5 kg



Picture left showing the Installation Console (forming part of set # C-033-2XL) upon final installation condition of the *CXL*.

## Footing device for relocatable installation on finished ground:



### Article no.: XL-U333-6/540kg – Set consisting of:

- **Portable Foot** (pictures) – *CXL*-associated dismountable, 4-fold levellable/plumbable heavy-weight base ≈ 130 x 130 cm plan; cassette-type steel frame welded resistant to bending, HT-hot-dipped, additionally PES powder-coated & baked at ≈ 200° C in the *CXL*'s frame finish (standard colour: RAL 9016/white). Coming readily assembled & completed with steel and specially moulded decorative-concrete slab inserts. Standard accessories coming with: Locking block with key, special spanner for levelling, and pair of slab-handling grips. Erection/insertion of the *CXL* requires hoisting equipment (mim. admissible load ≈ 200 kg). In conjunction with the locking block the circular metal cover preventing both unauthorized removal of the *CXL* and dismantling its heavy-weight foot. [If Portable Foot intended for installation of a »Heater«-equipped *CXL*, this requires (non-retrofittable) in-factory modification by article # XL-U333-CHIRA] Nett weight: ≈ 540 kg.
- **Installation Upright:** Same as Installation Console of # C-033-2XL, however, without any base plate. **Coming factory-prefixed to the *CXL*'s pole.** Nett weight: ≈ 10.0 kg.

Nett weight of the set: ≈ 550 kg

## CXL-associated optional (non-retrofitable) editions & equipment

### BAHAMA »Print«



Durable printwork produced by digital printing on the upside of the »betex®05« fabric membrane: Either photorealistic images (reprinted quality depending on the data volume received by us), or other motifs like e.g. logos, individualised letterings or decorative designs, to the copy material in vectorized ai- or eps-format together with clearly defined colour separations delivered to us by orderer or his sponsoring supplier.

### BAHAMA »Light«



- ① **Article no.:** XL-230444 – Non-retrofitable 4-lamp system. – Collective candlelight power ≈ 240 W – Collective power consumption ≈ 0.044 kW/hour
- ② **Article no.:** XL-230666 – Non-retrofitable 6-lamp system. – Collective candlelight power ≈ 360 W – Collective power consumption ≈ 0.066 kW/hour

### BAHAMA »Magic«

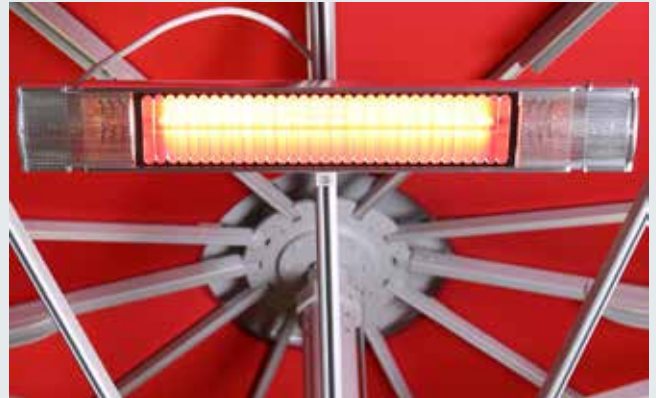


Indirect, automatically ON/OFF-switching "Event Lighting" based on 8 RGB LED strips installed & wired concealed, supplied with handset to control countless light & colour programs (also see page 19 in the JUMBRELLA catalogue). – # MAGIC-CXL-888.



Here is the 2-minute video demoing the Magic lighting.

### BAHAMA »Heater«



- ① **Artikel no.:** XL-CHIRA-400/3 – Non-retrofitable BAHAMA system with 4 IR radiators ea. 2000 W. Primary source required locally: 400 V/3-phase – connecting load: 8.1 kW per CXL unit. Operating mode: Each single radiator can be set ON/OFF (inside remote External Control Unit).
- ② **Article no.:** XL-DIM-CHIRA-400/3 – Non-retrofitable BAHAMA system with 4 dimmable IR radiators. Primary source required locally: 400 V/3-phase – connecting load: 8.1 kW per CXL unit. Alternative operating modes:
  - 2.1 All radiators to be set ON/OFF collectively or, provided basic collective setting ON:
  - 2.2 Each single radiator to be controlled infinitely variable within a range from 300 to 2000 W, respectively (inside remote External Dimmer Box).

### BAHAMA »Sound«



- ① **Article No.:** Sound-XL-SS – Built-in (non-retrofitable) STANDARD outdoor speaker equipment: Pole-integrated wiring with 4 connecting outlets/positions to select from. Coming with 1 final-stage speaker unit. Required or optional stereo operation: **Article No.:** Sound-XL-SS-2 (including the 2<sup>nd</sup> speaker unit).
- ② **Article No.:** Sound-XL-BS – Built-in (non-retrofitable) BOSE outdoor speaker equipment: Pole-integrated wiring with 4 connecting outlets/positions to select from. Coming with 1 final-stage speaker unit. Required for optional stereo operation: **Article No.:** Sound-XL-BS-2 (including the 2<sup>nd</sup> BOSE speaker).

PICTURE: Original BOSE

# CXL-associated optional (non-retrofitable) editions & equipment

## BAHAMA »WirelessTV«



### Sunshaded and rain-proof • No glare on the screen

Built-in TV image & sound equipment laid out to operate by radio transmission (for more detailed description see page 22 in the *JUMBRELLA* catalogue).



**Article # CXL-WirelessTV-1**  
Effect of option # CXL-WirelessTV-1 installed in one of the two adjacent e.g. 6 x 6 m CXL umbrellas: Audiences within the darker-shaded sector have unrestrained view of the TV screen.

**Article # CXL-WirelessTV-2**  
Effect of option # CXL-WirelessTV-2 installed in the median of 3 adjacent e.g. 6 x 6 m CXL umbrellas: Audiences within the darker-shaded sectors have unrestrained view of the TV screen(s).



To the video

”Off-season outdoor revenues – made by BAHAMA.”

## BAHAMA »TVR Gutters«



- ① **Article no.: XL-VR-TVR-12 – Mechanical 4-side Frame Prefitting** (not retrofitable): Required for either ab-initio or later installation of a model/size-associated textile gutter linking each two (or more) same-size square CXL umbrella structures intended to be allocated adjacent to each other.
- ② **Article no.: XL-TVR-12/150-2, or XL-TVR-12/155-2, or XL-TVR-12/160-2 respectively: Textile Linking & Draining Gutter.** – Tailored to link each two same-size square CXL structures precisely set & installed adjacent to each other on the same site level and at a horizontally parallel canopy edge distance of 25 cm (prerequisite for proper function). Gutter designed to drain rainwater into one or, at choice, the opposite direction. – Coming as kit with illustrated assembly instructions.



To the video

”Snow-clearing done in but few minutes”

## BAHAMA »Maritime«

**Article no.: CXL-V4A – Special folding frame edition:**

All non-aluminium & non-coated frame armatures such as tension rods, articulation axles, fittings, fixing screws, etc. – a total of over 200 parts – made of salt water-resistant V4A stainless-steel alloy as required on board of ocean liners.

**BAHAMA®**  
**JUMBRELLA CXL**



BAHAMA JUMBRELLA : □ 5.0 x 5.0 m »contemporary«



BAHAMA EVENT : Ø 4.0 m »contemporary«



Architectural line BAHAMA LARGO : □ 8.0 x 8.0 m



Architectural line BAHAMA MAGNUM : □ 8.0 x 8.0 m



BAHAMA factory at D-51580 Reichshof-Wehrath (Cologne area) – Its ground space including outdoor exhibition totals some 26,000 m<sup>2</sup>.

Designers & Manufacturers – since 1950:  
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