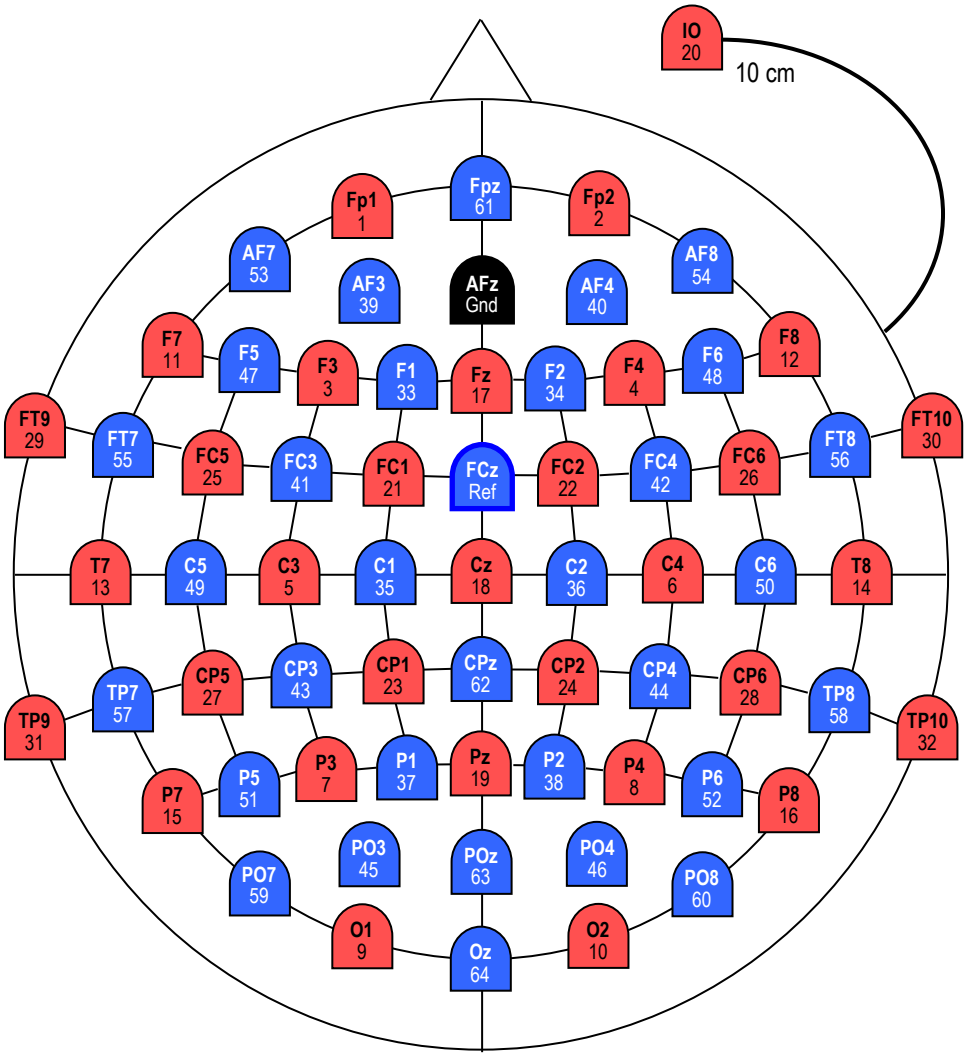
# BC-64-X39 - 64Ch Standard BrainCap with Multitrodes

## With Safety Sockets

### Electrode Layout and Channel Assignment






Easycap GmbH Am Anger 5, 82237 Wörthsee, Germany www.easycap.de support@easycap.de

## Details

### Ordering Information

For ordering please give **Layout Name, Cap Cut, and Size** (e.g. *BC-64-39, C-Cut, 56*):

- Layout name: ***BC-64-X39***
- Cap Cut: ***C-Cut*** or ***A-Cut***
- Size (given in cm head circumference):
  - Adult caps: ***54, 56, 58, 60, 62, 64*** (average male: 58, average female: 56)
  - Children caps: ***50*** (3-4 years), ***52*** (5-10 years), ***54*** (11-14 years)
  - Infant caps: ***42***, ***44*** (7 month), ***46***, ***48*** (3 years)

The catalogue-number comprises the cap as described. For further information about accessories or consumables, please visit our website or contact our local distributor.

### Cap

Standard: Subtemporal Cap with integrated chin belt, white.
Sizes 52 – 64 made from High Precision Fabric, Sizes 50 and smaller made from High Comfort Fabric
*Options: C-Cut or A-Cut, Size. For further variations, contact us.*

### Electrodes

All electrodes are Multitrodes with sintered Ag/AgCl sensors. They are buttoned directly into the cap (total height 3,5 mm) or can be attached to the skin with washers (= double-sided adhesive rings).

All electrodes are number-labelled at the sensor and at the connector end.
The cable colours correspond to the above figure.

The cables are attached to the cap with nylon threads. Two cable trees leave the cap plait-like behind the ears, pointing downwards. 20 cm before the connector boxes there is a crossing point. Lengths of cable trees are approx. 120 cm.

### Termination

Cables end with 1.5mm safety sockets.

### Cap Layout download

The QR code and link below take you to the download section of our website, where you can search for and download this cap layout document including Theta/Phi coordinates:
https://easycap.de/cap-layout-download/

## Table of Coordinates for BC-64-X39

| Channel-number | Name | Theta | Phi |
|---|---|---|---|
| 1 | Fp1 | -90 | -72 |
| 2 | Fp2 | 90 | 72 |
| 3 | F3 | -60 | -51 |
| 4 | F4 | 60 | 51 |
| 5 | C3 | -45 | 0 |
| 6 | C4 | 45 | 0 |
| 7 | P3 | -60 | 51 |
| 8 | P4 | 60 | -51 |
| 9 | O1 | -90 | 72 |
| 10 | O2 | 90 | -72 |
| 11 | F7 | -90 | -36 |
| 12 | F8 | 90 | 36 |
| 13 | T7 | -90 | 0 |
| 14 | T8 | 90 | 0 |
| 15 | P7 | -90 | 36 |
| 16 | P8 | 90 | -36 |
| 17 | Fz | 45 | 90 |
| 18 | Cz | 0 | 0 |
| 19 | Pz | 45 | -90 |
| 20 | IO | -- | -- |
| 21 | FC1 | -31 | -46 |
| 22 | FC2 | 31 | 46 |
| 23 | CP1 | -31 | 46 |
| 24 | CP2 | 31 | -46 |
| 25 | FC5 | -69 | -21 |
| 26 | FC6 | 69 | 21 |
| 27 | CP5 | -69 | 21 |
| 28 | CP6 | 69 | -21 |
| 29 | FT9 | -113 | -18 |
| 30 | FT10 | 113 | 18 |
| 31 | TP9 | -113 | 18 |
| 32 | TP10 | 113 | -18 |
| 33 | F1 | -49 | -68 |
| 34 | F2 | 49 | 68 |
| 35 | C1 | -23 | 0 |
| 36 | C2 | 23 | 0 |
| 37 | P1 | -49 | 68 |
| 38 | P2 | 49 | -68 |
| 39 | AF3 | -74 | -68 |
| 40 | AF4 | 74 | 68 |
| 41 | FC3 | -49 | -29 |
| 42 | FC4 | 49 | 29 |
| 43 | CP3 | -49 | 29 |
| 44 | CP4 | 49 | -29 |
| 45 | PO3 | -74 | 68 |
| 46 | PO4 | 74 | -68 |
| 47 | F5 | -74 | -41 |
| 48 | F6 | 74 | 41 |
| 49 | C5 | -68 | 0 |

| Channel-number | Name | Theta | Phi |
|---|---|---|---|
| 50 | C6 | 68 | 0 |
| 51 | P5 | -74 | 41 |
| 52 | P6 | 74 | -41 |
| 53 | AF7 | -90 | -54 |
| 54 | AF8 | 90 | 54 |
| 55 | FT7 | -90 | -18 |
| 56 | FT8 | 90 | 18 |
| 57 | TP7 | -90 | 18 |
| 58 | TP8 | 90 | -18 |
| 59 | PO7 | -90 | 54 |
| 60 | PO8 | 90 | -54 |
| 61 | Fpz | 90 | 90 |
| 62 | CPz | 22 | -90 |
| 63 | POz | 67 | -90 |
| 64 | Oz | 90 | -90 |
| Gnd | Afz | 67 | 90 |
| Ref | FCz | 23 | 90 |

These values are standardized to a Theta of 90° for the plane through Fpz, T7, T8, Oz.

The signs follow this convention:

