**Pyramidal (L6) to Other Cell Types**

Pyramidal to Pyramidal

| **Source (L6)** | **Target Layer** | **Target Cell Type** | **Synaptic Weight** | **Delay (ms)** | **Target Sections** |
| --- | --- | --- | --- | --- | --- |
| Pyramidal | L2 | Pyramidal | 0.00035 \* 1 = 0.00035 | 4.9 | ['basal', 'apical'] |
| Pyramidal | L4 | Pyramidal | 0.00035 \* 1 = 0.00035 | 4.2 | ['basal', 'apical'] |
| Pyramidal | L5 | Pyramidal | 0.00035 \* 1 = 0.00035 | 3.5 | ['basal', 'apical'] |

Pyramidal to PV

| **Source (L6)** | **Target Layer** | **Target Cell Type** | **Synaptic Weight** | **Delay (ms)** | **Target Sections** |
| --- | --- | --- | --- | --- | --- |
| Pyramidal | L2 | PV | 0.15 \* 0.040 \* 0.5 = 0.003 | 4.5 | ['somatic', 'basal'] |
| Pyramidal | L4 | PV | 0.15 \* 0.040 \* 0.5 = 0.003 | 3.8 | ['somatic', 'basal'] |
| Pyramidal | L5 | PV | 0.15 \* 0.040 \* 0.5 = 0.003 | 3.1 | ['somatic', 'basal'] |

Pyramidal to SST

| **Source (L6)** | **Target Layer** | **Target Cell Type** | **Synaptic Weight** | **Delay (ms)** | **Target Sections** |
| --- | --- | --- | --- | --- | --- |
| Pyramidal | L2 | SST | 0.15 \* 0.025 \* 0.5 = 0.001875 | 4.8 | ['basal'] |
| Pyramidal | L4 | SST | 0.15 \* 0.025 \* 0.5 = 0.001875 | 4.1 | ['basal'] |
| Pyramidal | L5 | SST | 0.15 \* 0.025 \* 0.5 = 0.001875 | 3.4 | ['basal'] |

Pyramidal to VIP

| **Source (L6)** | **Target Layer** | **Target Cell Type** | **Synaptic Weight** | **Delay (ms)** | **Target Sections** |
| --- | --- | --- | --- | --- | --- |
| Pyramidal | L2 | VIP | 0.15 \* 0.020 \* 0.5 = 0.0015 | 4.8 | ['somatic', 'basal'] |
| Pyramidal | L4 | VIP | 0.15 \* 0.020 \* 0.5 = 0.0015 | 4.1 | ['somatic', 'basal'] |
| Pyramidal | L5 | VIP | 0.15 \* 0.020 \* 0.5 = 0.0015 | 3.4 | ['somatic', 'basal'] |

**PV (L6) to Other Cell Types**

PV to Pyramidal

| **Source (L6)** | **Target Layer** | **Target Cell Type** | **Synaptic Weight** | **Delay (ms)** | **Target Sections** |
| --- | --- | --- | --- | --- | --- |
| PV | L2 | Pyramidal | 0.0024 | 4.5 | ['somatic', 'basal', 'apical'] |
| PV | L4 | Pyramidal | 0.0024 | 3.8 | ['somatic', 'basal', 'apical'] |
| PV | L5 | Pyramidal | 0.0024 | 3.1 | ['somatic', 'basal', 'apical'] |

PV to PV

| **Source (L6)** | **Target Layer** | **Target Cell Type** | **Synaptic Weight** | **Delay (ms)** | **Target Sections** |
| --- | --- | --- | --- | --- | --- |
| PV | L2 | PV | 0.0024 \* 1.01 = 0.002424 | 4.8 | ['somatic', 'basal'] |
| PV | L4 | PV | 0.0024 \* 1.01 = 0.002424 | 4.1 | ['somatic', 'basal'] |
| PV | L5 | PV | 0.0024 \* 1.01 = 0.002424 | 3.4 | ['somatic', 'basal'] |

PV to SST

| **Source (L6)** | **Target Layer** | **Target Cell Type** | **Synaptic Weight** | **Delay (ms)** | **Target Sections** |
| --- | --- | --- | --- | --- | --- |
| PV | L2 | SST | 0.0024 \* 0.33 = 0.000792 | 4.8 | ['basal'] |
| PV | L4 | SST | 0.0024 \* 0.33 = 0.000792 | 4.1 | ['basal'] |
| PV | L5 | SST | 0.0024 \* 0.33 = 0.000792 | 3.4 | ['basal'] |

PV to VIP

| **Source (L6)** | **Target Layer** | **Target Cell Type** | **Synaptic Weight** | **Delay (ms)** | **Target Sections** |
| --- | --- | --- | --- | --- | --- |
| PV | L2 | VIP | 0.0024 \* 0.22 = 0.000528 | 4.8 | ['somatic', 'basal'] |
| PV | L4 | VIP | 0.0024 \* 0.22 = 0.000528 | 4.1 | ['somatic', 'basal'] |
| PV | L5 | VIP | 0.0024 \* 0.22 = 0.000528 | 3.4 | ['somatic', 'basal'] |

**SST (L6) to Other Cell Types**

SST to Pyramidal

| **Source (L6)** | **Target Layer** | **Target Cell Type** | **Synaptic Weight** | **Delay (ms)** | **Target Sections** |
| --- | --- | --- | --- | --- | --- |
| SST | L2 | Pyramidal | 0.0024 | 4.8 | ['basal', 'apical'] |
| SST | L4 | Pyramidal | 0.0024 | 4.1 | ['basal', 'apical'] |
| SST | L5 | Pyramidal | 0.0024 | 3.4 | ['basal', 'apical'] |

SST to PV

| **Source (L6)** | **Target Layer** | **Target Cell Type** | **Synaptic Weight** | **Delay (ms)** | **Target Sections** |
| --- | --- | --- | --- | --- | --- |
| SST | L2 | PV | 0.0024 \* 0.33 = 0.000792 | 4.8 | ['basal'] |
| SST | L4 | PV | 0.0024 \* 0.33 = 0.000792 | 4.1 | ['basal'] |
| SST | L5 | PV | 0.0024 \* 0.33 = 0.000792 | 3.4 | ['basal'] |

SST to VIP

| **Source (L6)** | **Target Layer** | **Target Cell Type** | **Synaptic Weight** | **Delay (ms)** | **Target Sections** |
| --- | --- | --- | --- | --- | --- |
| SST | L2 | VIP | 0.0024 \* 0.77 = 0.001848 | 4.8 | ['basal'] |
| SST | L4 | VIP | 0.0024 \* 0.77 = 0.001848 | 4.1 | ['basal'] |
| SST | L5 | VIP | 0.0024 \* 0.77 = 0.001848 | 3.4 | ['basal'] |

**VIP (L6) to Other Cell Types**

VIP to Pyramidal

| **Source (L6)** | **Target Layer** | **Target Cell Type** | **Synaptic Weight** | **Delay (ms)** | **Target Sections** |
| --- | --- | --- | --- | --- | --- |
| VIP | L2 | Pyramidal | 0.0024 \* 0.02 = 0.000048 | 4.8 | ['basal', 'apical'] |
| VIP | L4 | Pyramidal | 0.0024 \* 0.02 = 0.000048 | 4.1 | ['basal', 'apical'] |
| VIP | L5 | Pyramidal | 0.0024 \* 0.02 = 0.000048 | 3.4 | ['basal', 'apical'] |

VIP to PV

| **Source (L6)** | **Target Layer** | **Target Cell Type** | **Synaptic Weight** | **Delay (ms)** | **Target Sections** |
| --- | --- | --- | --- | --- | --- |
| VIP | L2 | PV | 0.0024 \* 0.22 = 0.000528 | 4.8 | ['somatic', 'basal'] |
| VIP | L4 | PV | 0.0024 \* 0.22 = 0.000528 | 4.1 | ['somatic', 'basal'] |
| VIP | L5 | PV | 0.0024 \* 0.22 = 0.000528 | 3.4 | ['somatic', 'basal'] |

VIP to SST

| **Source (L6)** | **Target Layer** | **Target Cell Type** | **Synaptic Weight** | **Delay (ms)** | **Target Sections** |
| --- | --- | --- | --- | --- | --- |
| VIP | L2 | SST | 0.0024 \* 0.77 = 0.001848 | 4.8 | ['basal'] |
| VIP | L4 | SST | 0.0024 \* 0.77 = 0.001848 | 4.1 | ['basal'] |
| VIP | L5 | SST | 0.0024 \* 0.77 = 0.001848 | 3.4 | ['basal'] |