## CEA Charger Handling

Basic chargers and basic car kits indicate their default current limits through the value of the resistor RACC_ID_DWN, between the ID and the ground, and through the data bus connection type (shorted or not shorted) (see the CEA-936-A specification).

### CEA Charger Current Limit Indications

| Charger Type | Output Voltage | Output Current Limit | | ID Resistor | ID Pin Grounded by Phone | D+/D– Connection |
|---|---|---|---|---|---|---|
| | | Min | Max | | | |
| Phone-powered device | N/A | N/A | N/A | 102k (1%) | N/A | Not shorted |
| Charger 5-wire type 1 | 5.0 V | 450 mA | 650 mA | 200k (1%) | Yes | Shorted |
| Charger 5-wire type 1 | 5.0 V | 750 mA | 950 mA | 200k (1%) | No | Shorted |
| Charger 5-wire type 2 | 5.0 V | 750 mA | 950 mA | 440k (1%) | Yes | Shorted |
| Carkit 5-wire type 1 | 5.0 V | 450 mA | 650 mA | 200k (1%) | Used for muting | DM high |
| Carkit 5-wire type 2 | 5.0 V | 750 mA | 950 mA | 440k (1%) | Used for muting | DM high |
| Charger 4-wire | 5.0 V | 450 mA | 1.5 A | N/A | N/A | Shorted |
| Carkit 4-wire | 5.0 V | 450 mA | 1.5 A | N/A | N/A | DM high |