|  |  |
| --- | --- |
| Front: **Class 5-8**  **OBJ 2.2** | Front: **IEEE 802.3af (PoE)**  **OBJ 2.2** |
| Front: **IEEE 802.3at (PoE+)**  **OBJ 2.2** | Front: **IEEE 802.3bt (PoE++ or 4-Pair PoE)**  **OBJ 2.2** |
| Front: **Types of PoE Devices**  **OBJ 2.2** | Front: **Hub**  **OBJ 2.2** |

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| Back:  **- released 2003**  **- max power to device: 15.4 watts**  **- voltage at device (PD-powered device): 44-57V DC**  **- max current: 350mA**  **- power over: 2 pairs of wires (pins 1, 2, 3, and 6)**  **in standard Ethernet cable**  **- common use cases: low-power devices like**  **VoIP phones, basic WAPs, security cameras**  **- actual pwr delivered to device slightly lower**  **(~12.95 watts) accounting for power loss over cable**  **- Category 5e (Cat5e) recommended** | Back: **- higher power ranges for 802.3bt**  **- PoE++ / 4-pair**  **- up to 60W for Class 5**  **- up to 100W for Class 8** |
| Back:  **refer to the ObsidianMD / Anki cards** | Back: **refer to the ObsidianMD / Anki cards** |
| Back:  **- has several different ports between 4 - 48 ports** | Back:  **- PSE (Power Sourcing Equipment): device like**  **switch/injector provides power to other**  **devices over ethernet cable**  **- PD (Powered Device): device like camera/access**  **point receives power from the PSE** |