

IEEE802.3at Task Force Alternative De-rating

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Review

- TIA and ISO temperature de-rating recommendations are based on:
 - 100 cables on a bundle
 - Different current levels
 - All wires conducting
- Applicable to Enterprise Market

The Other Markets

- Residential applications
 - FTTx Optical Network Terminator (IEEE802.3av, precursors and parallel ITU standards): 20W to 40W
 - WiMAX Subscriber Station (IEEE802.16): 20W to 50W
- Call Centers
 - Power forwarding 4-port switch: >30W
- Typically, number of cables in bundle is VERY SMALL

Motion

Add a note to section 33.1.4.2: Cable current carrying capacity is a function of cable type, cable installation practices, environmental conditions, and PoE system architecture. In addition, different levels of power delivery can be accomplished with different supply voltages and different cable lengths. It is out of the scope for this standard to address these alternate PoE system implementations.

M: Clay Stanford S: Daniel Feldman

In the room Y: N: A:

IEEE802.3 voters Y: N: A: