

# Rightsizing Simplified

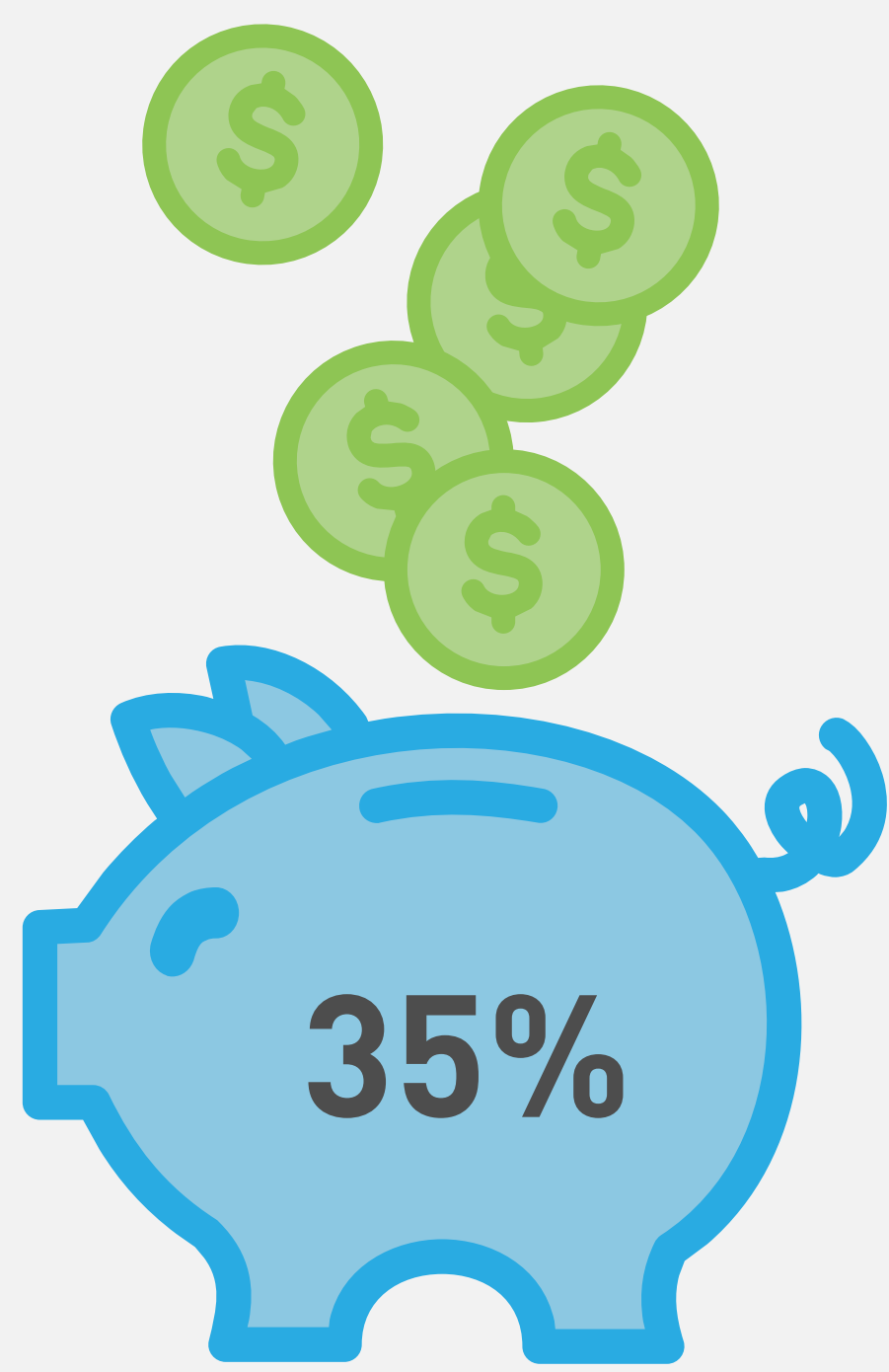
## The value of an optimized PoE cabling system

By understanding your device's unique requirements and deploying an optimized PoE cabling system, not only will you maximize the performance and extend the lifespan of your equipment, but you'll also realize the cost-savings and power efficiency potential that come with rightsizing your system.

The combined Legrand Clarity and Superior Essex PowerWise™ 1G channel solution is designed to support high power, low data applications, like PoE lighting, and offers a range of benefits over Category 6A - from optimized performance to significant cost savings.

### Cost Savings

Customers save up to 35% on cabling system costs when using Clarity & PowerWise 1G vs. CAT 6A.

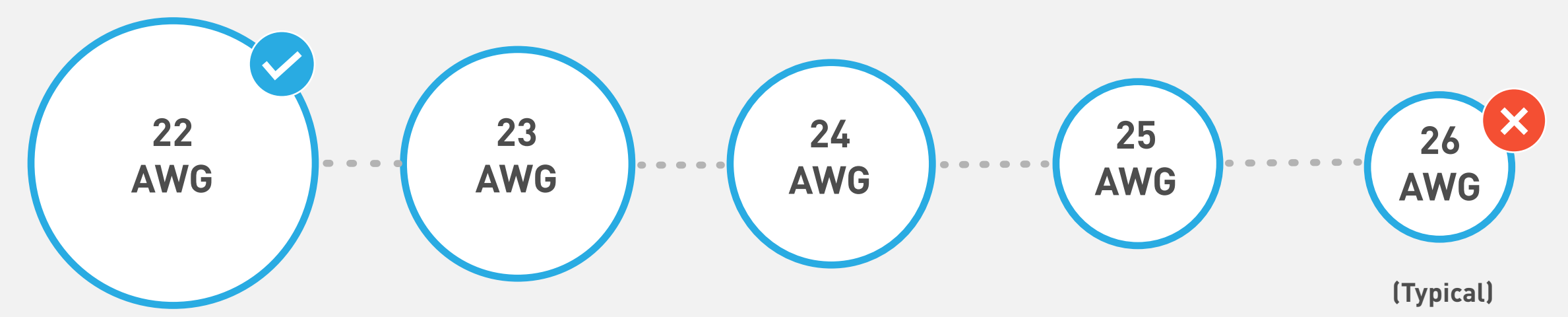


### Field Tested & Approved

Clarity & PowerWise 1G channels are pre-Field Tested & Approved in Fluke® test equipment for more efficient Direct Current Resistance (DCR) field tests.



### Wire Gauge Size



1G - Ideal solution for high power, low data installations, like PoE lighting. The lower AWG, the better the power efficiency.

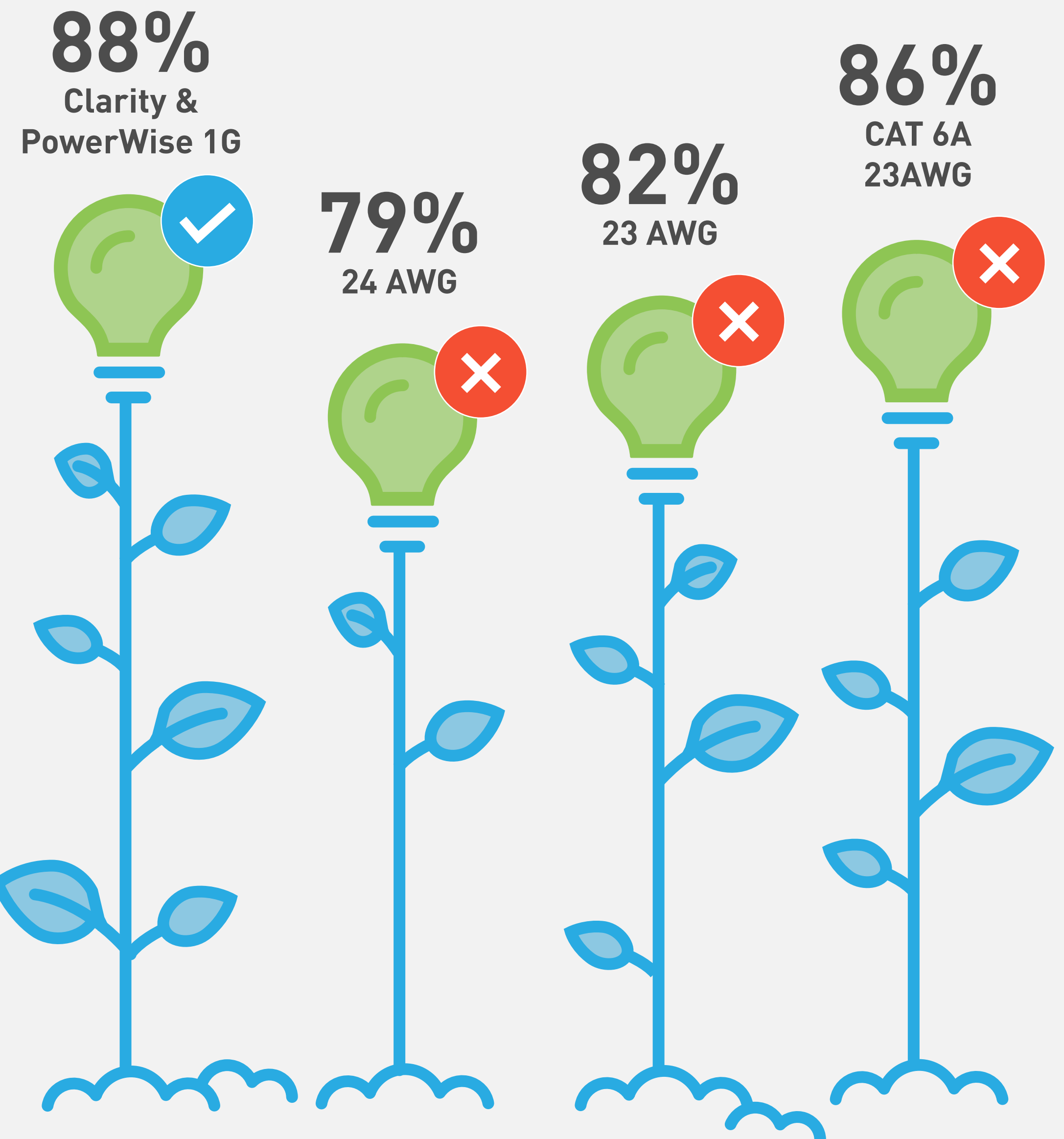
6A - Often recommended for all PoE installations, but is not always the most cost optimized solution.

\* < 24 AWG = unstranded cable | \*\* > 24 AWG = stranded cable

## Fast Fact: Wire Gauge Size Drives Energy Efficiency

### Energy Efficiency

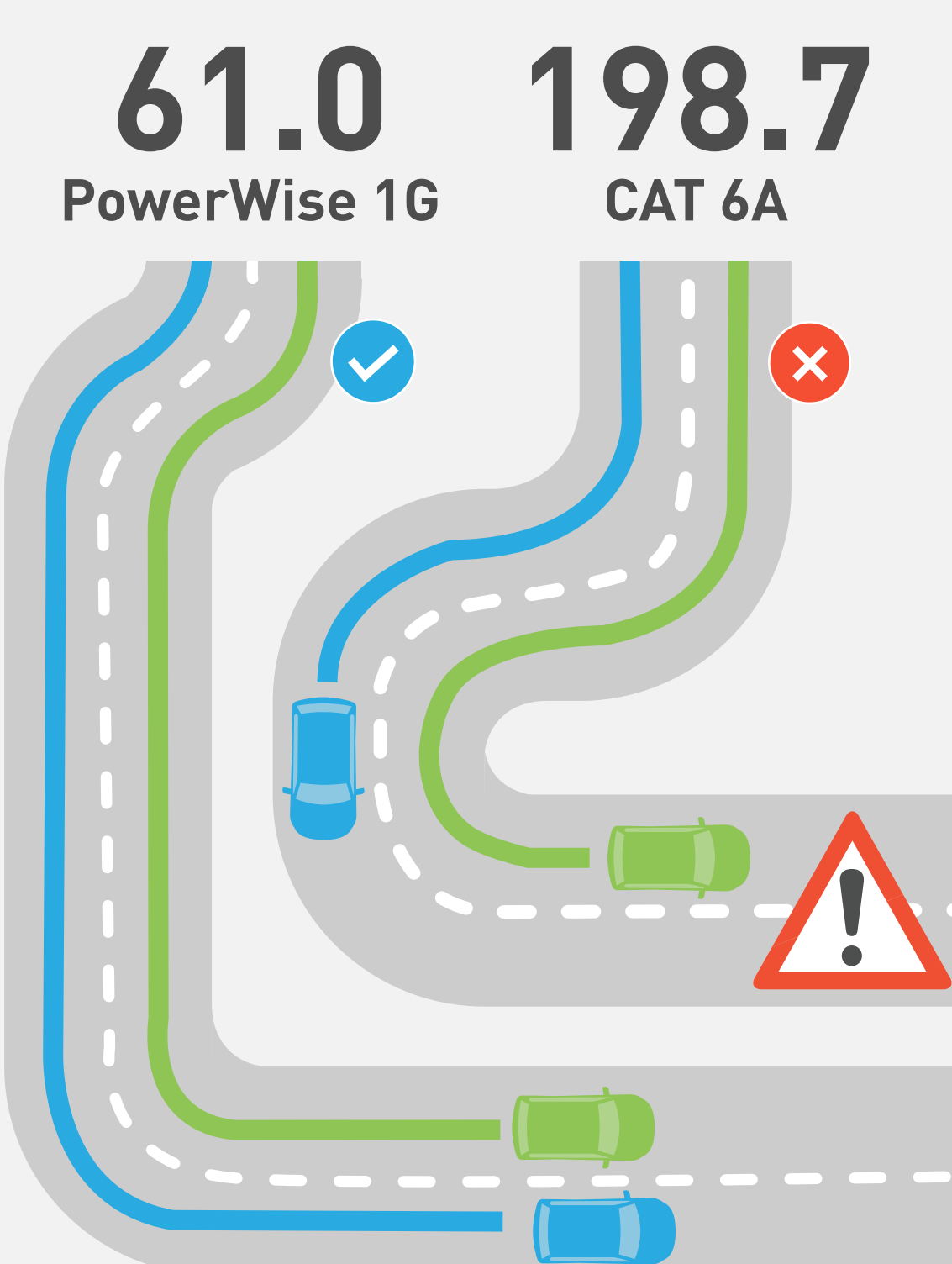
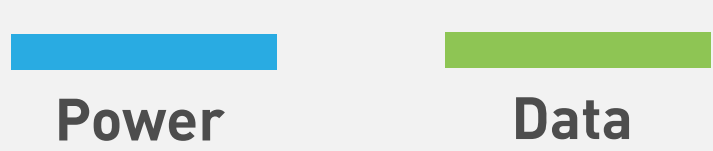
Clarity & PowerWise 1G (22AWG) channel solution is more power efficient than CAT 6A solutions.



### DCR Headroom

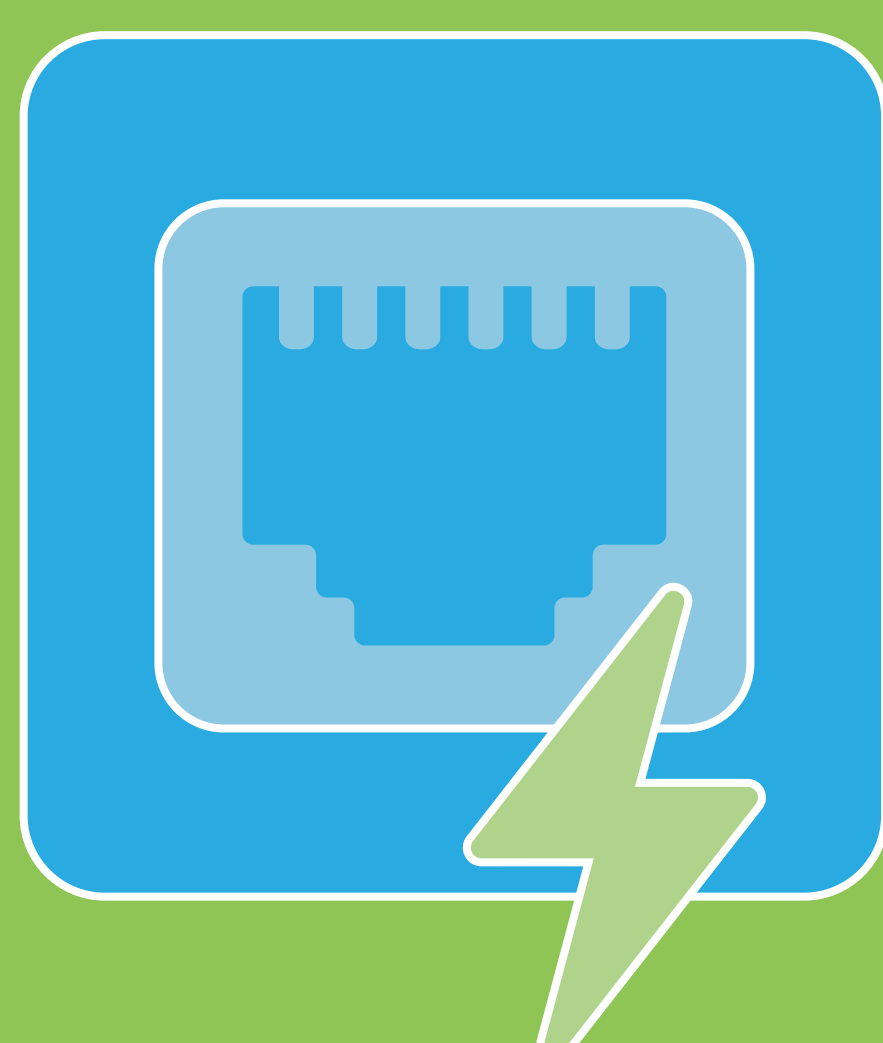
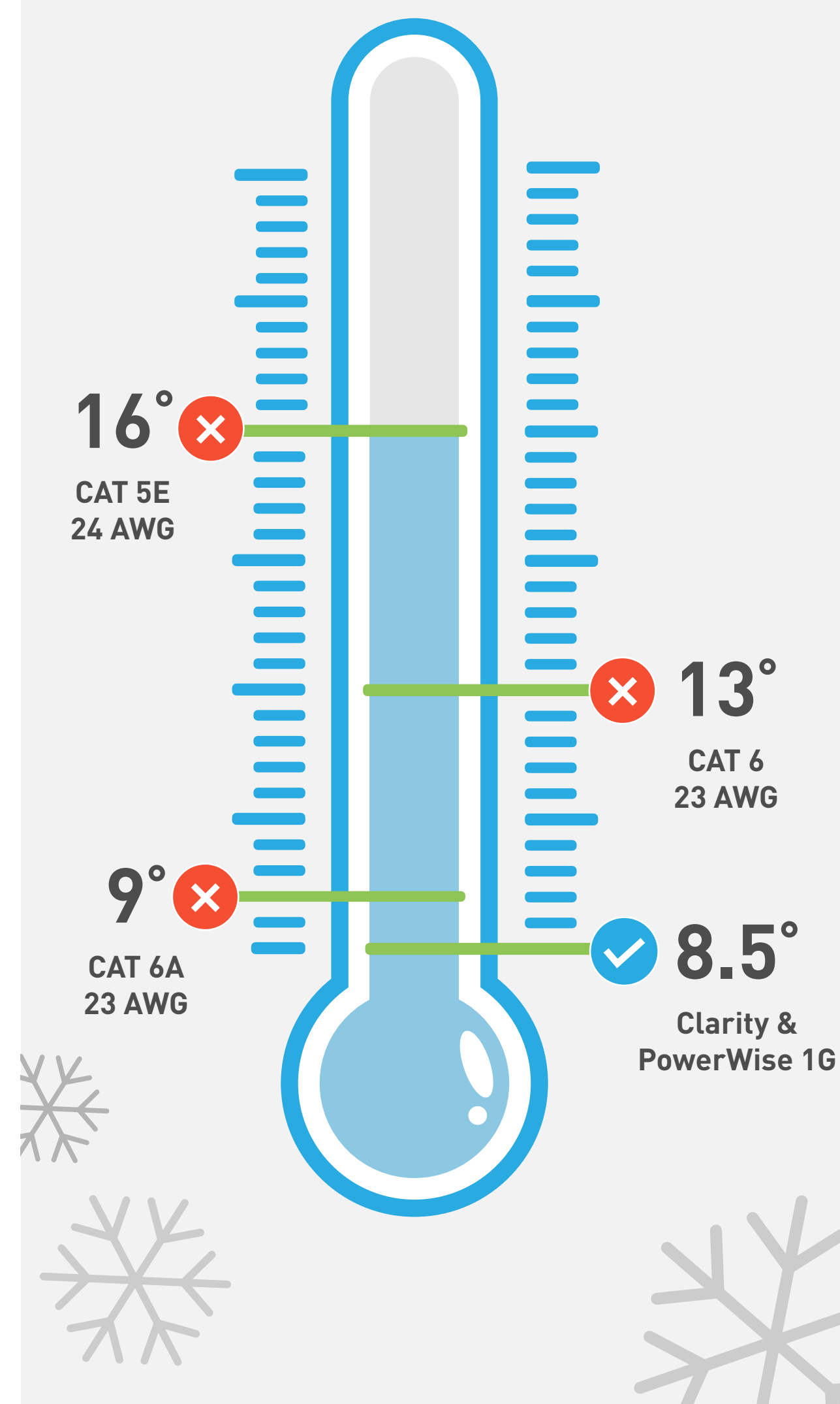
Clarity & PowerWise 1G offer 137.7mOhms of head room over CAT 6A, meaning it better balances power and data throughput.

Unbalanced power and data throughput can lead to problems down the road, like shorter equipment lifespans or inferior network performance.



### Heat Dissipation

Clarity & PowerWise 1G is the best solution for heat dissipation in high power, low data applications.



## Clarity & PowerWise 1G

Connectivity is designed to support High Power PoE Installations and with arcing erosion mitigation.

**1.5 Amps**

Minimum of 1.5 Amps per circuit trace

**100w**

Supports up to 100w of power

**50µin**

Gold plating on contacts adds durability