

Overview: Corning Remote Power Solution

Enable Greater Access to Data and Power

Corning remote power solution lets you extend your reach – delivering reliable data and power at greater distances. Our user-friendly and cost-effective technology can be utilized to provide power to remote devices, like a distributed antenna system (DAS) remote access unit (RAU), or a software-defined access node (SDAN), sometimes known as an optical network terminal (ONT).

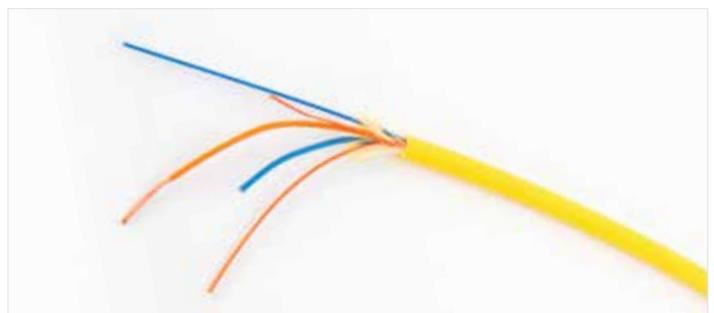
Remote Power Components to Suit Your Needs

Our remote power solution makes distance and simplicity a reality through the following components:

- Power supply unit (PSU 6), which offers up to 12 ports and requires only one rack unit per chassis
- Modular, 57 VDC power supply module (PSM-I)
- Class-3 rated copper fiber composite cabling that supports low voltage (Class 2, 57 VDC/100 V), as well as bulk power solutions:
 - ActiFi® cable options, ranging from 1 F and 2 Cu conductors up to 24 F and 12 Cu conductors
 - Copper conductors ranging in size from 20- to 12AWG
 - Cables can support devices directly or via a connection to a Corning ONT (SDAN)
 - Bulk cables can be ordered for easy termination in the field when run lengths are unknown – in some cases, allowing Class 2 low-voltage power distribution over distances much farther than the 300-ft limit through category cables.



Power Supply Unit (PSU6-1U)



Composite Cabling



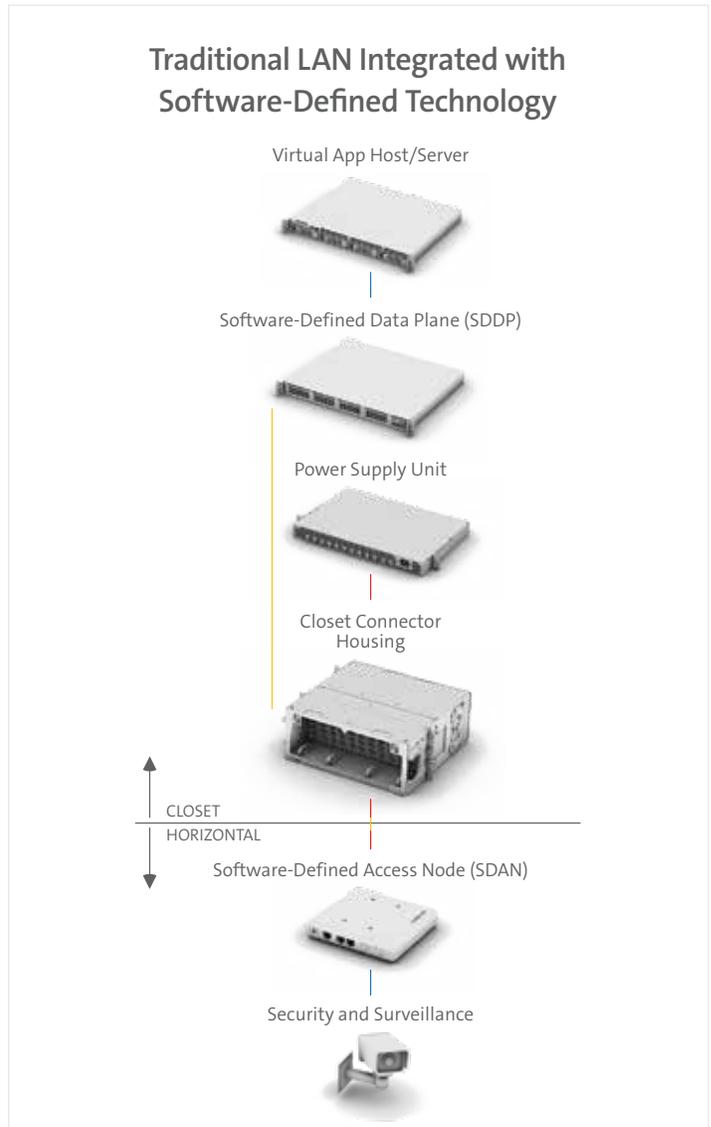
Expand the Possibilities for End-User Applications

Starting in the local closet, power injection (PI), the power supply unit (PSU 6), and ActiFi® cables reduce layers of infrastructure and allow for the transmission of data at great distances. Corning remote power solution can also deliver power to remote devices, like SDANs, DAS remote access units, and ONTs (SDANs).

In turn, an SDAN offers fast network connections and enables the delivery of Power over Ethernet (PoE) and POE+, which can deliver key end-user applications such as access control devices, security cameras, wireless access points (WAPs), and security phones at distances exceeding 2,000 ft.

Corning optical network terminals can provide multiple ports of PoE (15.4 W), PoE+ (30 W), and PoE++ (60 W), allowing for network connection flexibility. Power over Ethernet can also be managed down to the port level, while device traffic and operations can be managed using a software management platform without going to remote locations. The ability to locate remote devices in a single closet reduces costs and increases efficiency – a big advantage of implementing Corning SD-LAN.

If you're ready to explore an easy to manage, reliable, and cost-effective remote power solution, **contact us at corning.com/remote-power for more information.**



Composite Cable Distance Lengths			
	30 W	60 W	75 W
20 AWG	590 ft	295 ft	235 ft
16 AWG	1,500 ft	750 ft	600 ft
14 AWG	>2,000 ft	1,190 ft	950 ft
12 AWG	>2,000 ft	1,895 ft	1,500 ft

Notes: Consult Corning Solutions Architecture Team for Distances over 2,000 ft.

Calculations in table based on following assumptions:

1. Temperature: +45° C
2. Wire type: Stranded copper
3. Power Supply: PSU6-1U with PSM-I power supply modules
 - a: 57 V maximum voltage output
 - b: 100 W maximum power output
4. Minimum ONT input voltage: 48 V
5. These distances are estimated



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