

REMEE WIRE & CABLE

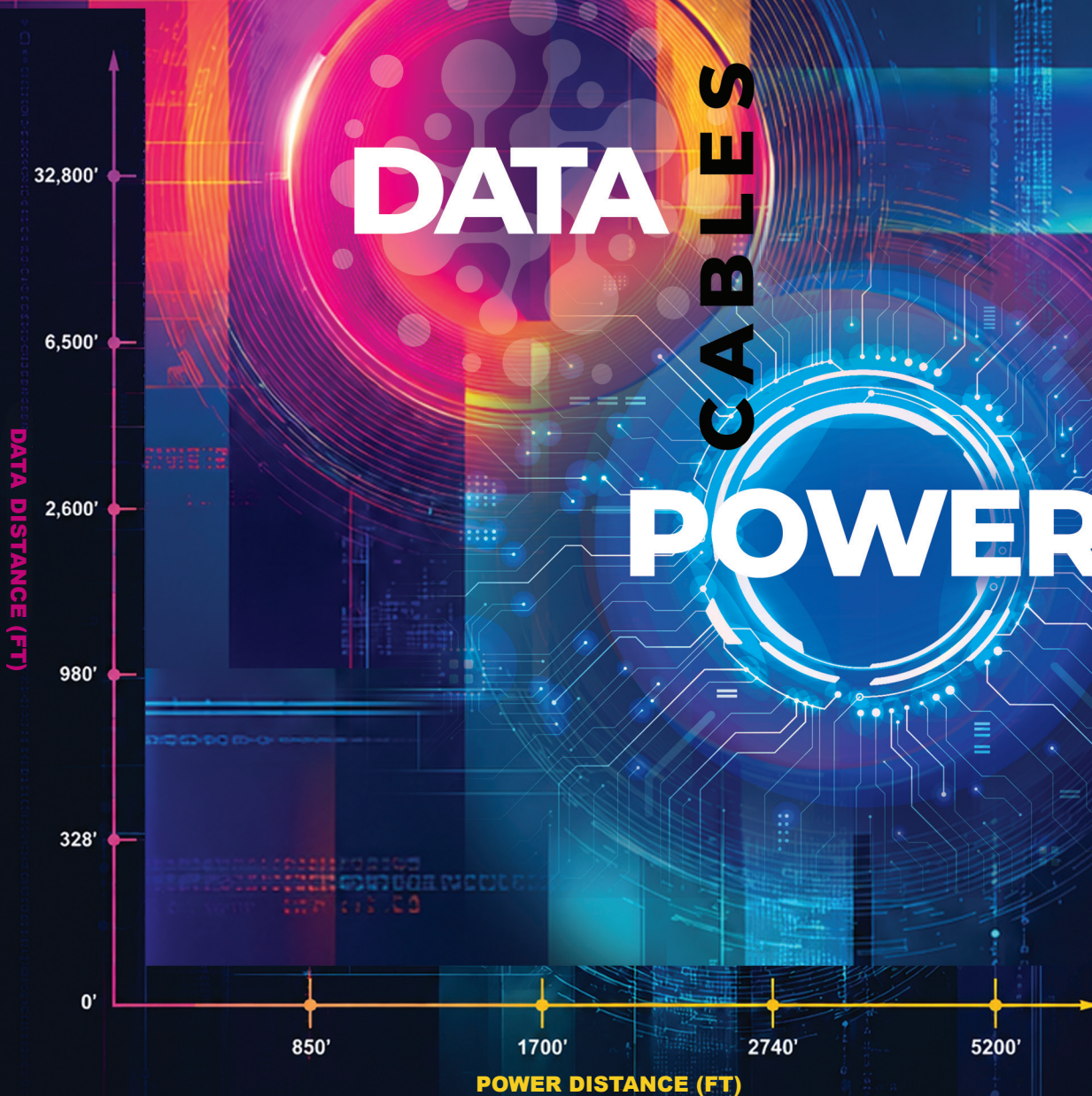
Powered Cable Solutions
for Any Distance

ACTIVATE™
BY REMEE

DATA

CABLES

POWER



ACTIVATE™

BY REMEE

Data and Power: Delivered Wherever You Need to Go

Activate™ by Remeo Powered Cable Solutions

The Activate™ by Remeo line of Powered Cable Solutions is offered in response to the growing demand to run cable at longer distances carrying data and power. It includes a selection of standard and customized Category PoE cables and PowerPipe™ copper and hybrid distribution cables. The latter are composite configurations for longer distances when greater bandwidth is needed.

Use Activate™ by Remeo for any power/data combination to reach the end run you need:

- Large data & limited power
- Little data & limited power
- Little data & high power
- Larger data & high power

Remeo cables meet the applicable ETL and CSA requirements. All Remeo cable products are manufactured in the USA under ISO 9001 certification.



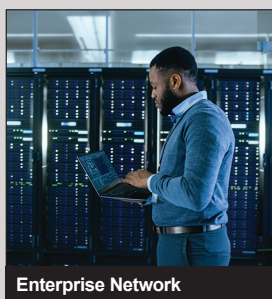
Industrial Control Station



CCTV Cameras



LED Lighting



Enterprise Network

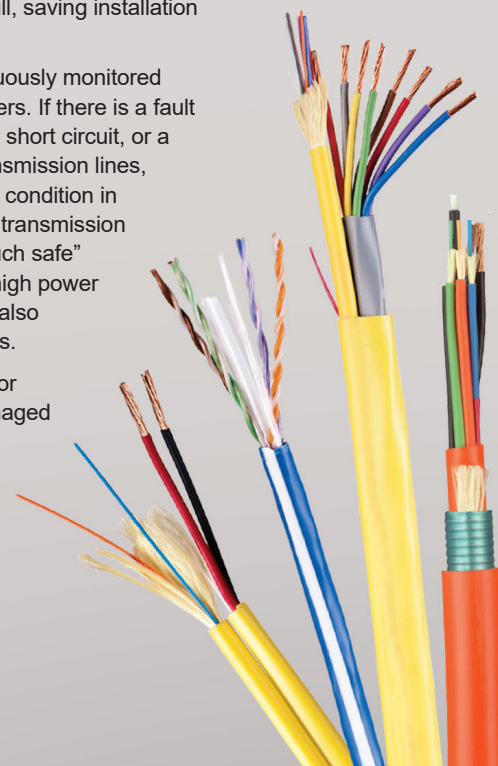
Class 4 Fault-Managed Power Distribution

To provide a more cost-effective and resilient power solution for distributed electronics, Remeo offers the Activate™ PowerPipe™ family of copper multipair and hybrid copper/fiber cables. These cables were designed to meet the new NEC Class 4 classification standard for fault-managed power systems. They will support growing digital power technologies such as required in smart buildings and in many other applications.

Remeo's Activate™ PowerPipe™ cables combine the convenience and safety of low-voltage cables with the power and distance capabilities of traditional AC distribution. It delivers nearly 20 times the power of PoE over hundreds of meters, while using low-voltage pathways and wiring practices. But, like PoE, the single cable construction requires only one cable pull, saving installation time and expense.

Line conditions are continuously monitored by transmitters and receivers. If there is a fault such as improper wiring, a short circuit, or a person is touching the transmission lines, the system recognizes the condition in milliseconds and halts the transmission of power. The result is "touch safe" electrical transmission at high power levels. This "clean power" also eliminates sags and surges.

PowerPipe™ is compliant for use with Class 4 fault-managed power systems.

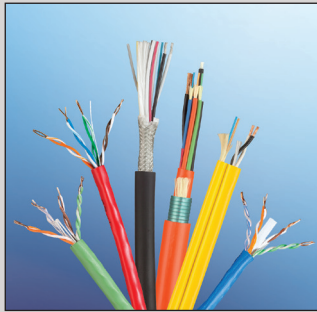


Virtually Unlimited Selection of Powered Data Cables for Any Distance

Standard Category Cables

STREAMline™ Cat 6 and Cat 6A PoE Cables

- Shielded or Unshielded
- Plenum (CMP) or Riser (CMR)
- Enhanced for 650 MHz
- Indoor & Outdoor Wet Location (OSP)



PowerPipe™ Hybrid CL2 300V Distribution Cables

Standard and custom hybrid composite cable constructions (round, oval, and Siamese).

Copper:

Bare copper stranded power conductors; 2 to 8 pairs, 12AWG to 18AWG, unshielded, in plenum or riser rated versions.

Fiber:

High performance OS2 Optical Fibers, singlemode, 4, 6, or 8 fibers. Loose tube, tight buffer, and breakout designs.



PowerPipe™ Copper 450V Distribution Cables – CL4 and CL2

Remee's copper PowerPipe™ cables that are dual listed CL4Z and CL4P, are certified to UL 1400-2 for Fault-Managed Power Systems (FMPS). This not only reduces inventory, but it also provides maximum installation flexibility, because one cable can be used for both indoor and outdoor applications. This removes any uncertainty as to which rating is applicable for a given application.

These cables are ideally suited for fault-managed power systems such as Pulse Power, Digital Electricity* and other smart transfer systems. They include direct burial, wet location, and are sunlight resistant.

Multipair Wet and Dry (Plenum & Riser) Location Cables – 18, 16, 14, and 12 AWG, with fluoropolymer insulation and jackets; suitable for direct burial and wet location applications, as well as in plenum air spaces. Available with up to 8 pairs, shielded or unshielded. CL4Z/CL4P dual-rated cables are also suitable for riser applications (CL4R). Also offered in CL2 versions, 300V, in similar constructions.



1ST

Remee is the
FIRST in the wire
and cable industry
to have their copper
PowerPipe™ cables
dual listed as CL4Z
and CL4P.



*Trademark of VoltServer, Inc.

For More Information:

- > Visit our website for [Activate™ by Remee Powered Cable Solutions](#)
- > Explore our [Activate™ Case Studies](#)

Activate™ by Remee Selection Guide for Distance & Bandwidth

This chart helps installers, contractors, integrators, and system designers determine PoE capability, expected data rates at the powered device (PD), and opportunities to reduce costs by eliminating mid-span power boosters

Download the [Activate™ by Remee Selection Guide](#) here.

Applications

Activate™ delivers power and data (copper or fiber) to the network edge for indoor remote powering of devices, including:

- Distributed Antenna Systems (DAS)
- Passive Optical Networks (PON)
- Microcells, such as 5G
- Wifi
- Smart Lighting
- IPTV
- Smart clocks
- Surveillance cameras
- Access Control Panels

100 MBp/s Optimized	48 VDC – RECEIVING END				POWER DISTANCE (FT)				DATA DISTANCE (FT)		
	Amps	Watts-PS	Watts-PD	mA	18AWG	16AWG	14AWG	12AWG	OM3 (MM)	OM4 (MM)	OS2 (SM)
	0.3125	15.4	12.95	350	1300	1730	2740	5200	6500	6500	32800
	0.625	30	25.5	600	800	900	1400	3200	6500	6500	32800
	1.25	60	51	600x2	400	450	700	1600	6500	6500	32800

1 Gbp/s Optimized	48 VDC – RECEIVING END				POWER DISTANCE (FT)				DATA DISTANCE (FT)		
	Amps	Watts-PS	Watts-PD	mA	18AWG	16AWG	14AWG	12AWG	OM3 (MM)	OM4 (MM)	OS2 (SM)
	0.3125	15.4	12.95	350	1300	1730	2740	5200	2600	3281	32800
	0.625	30	25.5	600	800	900	1400	3200	2600	3281	32800
	1.25	60	51	600x2	400	450	700	1600	2600	3281	32800

10 Gbp/s Optimized	48 VDC – RECEIVING END				POWER DISTANCE (FT)				DATA DISTANCE (FT)		
	Amps	Watts-PS	Watts-PD	mA	18AWG	16AWG	14AWG	12AWG	OM3 (MM)	OM4 (MM)	OS2 (SM)
	0.3125	15.4	12.95	350	1300	1730	2740	5200	980	1640	32800
	0.625	30	25.5	600	800	900	1400	3200	980	1640	32800
	1.25	60	51	600x2	400	450	700	1600	980	1640	32800

Twisted Pair	50 VDC – SOURCE				POWER DISTANCE (FT)				DATA DISTANCE (FT)		
	Amps	Watts-PS	Watts-PD	mA	24AWG	23AWG	22AWG	Activate™ uTP	Size	1Gbps	10Mbps
PoE (802.3af)	0.308	15.4	12.99	308	850	1050	1300	1700	24AWG (Cat 5E)	328	328
PoE+ (802.3at)	0.600	30	25.5	600	400	500	625	800	23AWG (Cat 6 or 6A)	328	328
PoE++ (802.3bt Type 3)	1.2 (2 Prs)	60	51	600x2	400	500	625	800	21AWG (Activate™ uTP)	656	850
PoE++ (802.3bt Type 4)	2.0 (2 Prs)	100	71	1000x2	460	575	725	950		750	950

** Power distance is calculated based on Ohms Law. Your systems' equipment may include programing to limit voltage, amperage, and/or circuit resistance and so effectively limiting the distance between the PSE and the PD. Such limitations may be in observation of IEEE 802 criteria as interpreted by the equipment manufacturer or by their specification.

