

Huge Selection and Personal Service

**Remeee**  
WIRE & CABLE

Engineered With You In Mind

Activate™ by Remeee

**Powered Cable Solutions  
for Any Distance**

**POWER & DATA SOLUTIONS**





Huge Selection and Personal Service

**Remee**  
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Data and Power:

**Delivered to Wherever  
You Need It to Go**

### **Activate™ by Remee Powered Cable Solutions**

The *Activate™ by Remee* line of Powered Cable Solutions is offered in response to the growing demand for Power over Ethernet and the need to run cable distances longer than Category limits allow (100 meters or 328 feet). It includes a selection of standard and customized Category cables, a higher gauge Cat. 6 PoE cable, utility Twisted Pair™ cables and Powered Fiber Copper Solutions (PFCS). The latter are hybrid cables in composite configurations for longer distances when greater bandwidth is needed.

Use *Activate™ by Remee* 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

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

### **Applications**

*Activate™ by Remee* brings power and data (copper or fiber) to the edge of a network, often for indoor remote powering of devices. These cables are approved for use by most electronic device manufacturers whose devices are powered by PoE, such as the following devices or systems:

- Distributed Antenna Systems (DAS)
- Passive Optical Networks (PONs)
- Microcells, such as 5G
- Access Control Panels
- WiFi
- IPTV
- Surveillance cameras
- Smart lighting
- Smart clocks
- And more!



**Industrial Control Station**



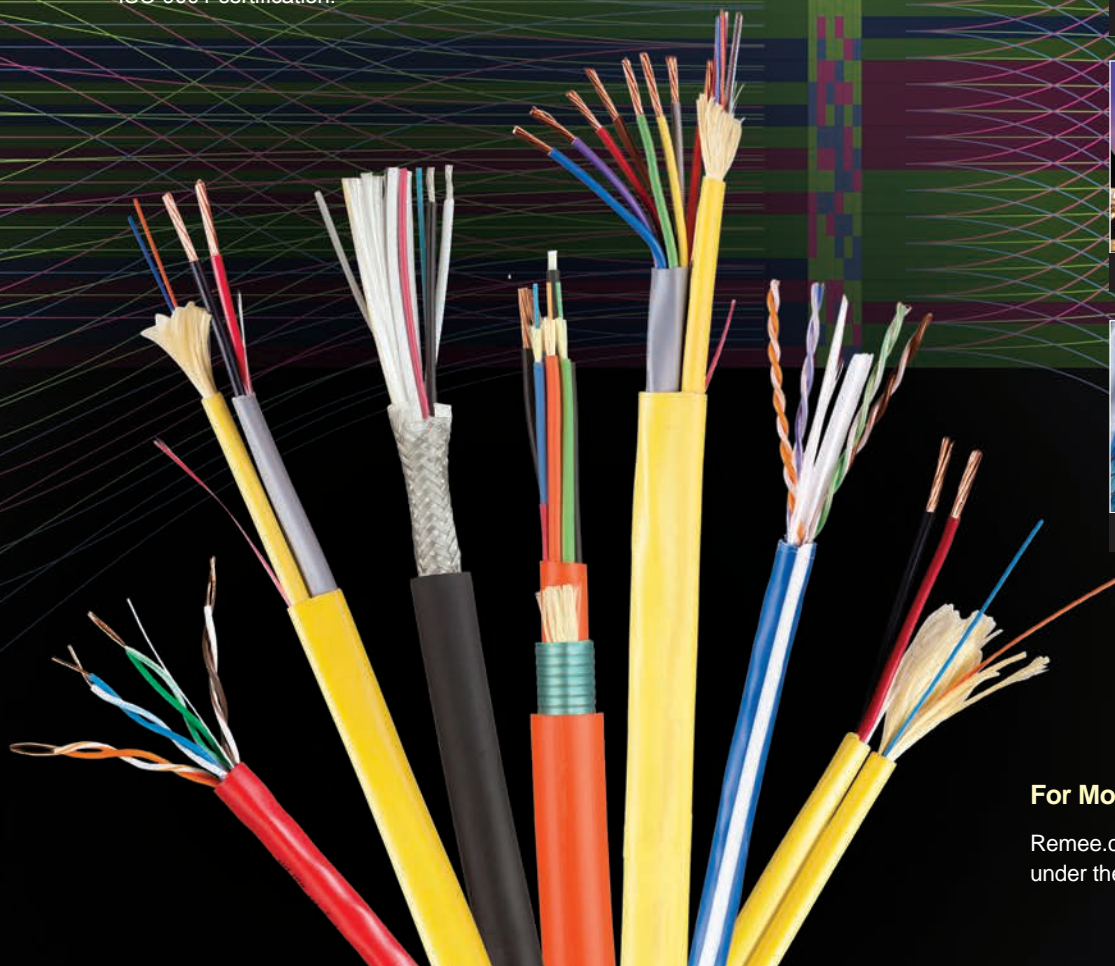
**Enterprise Network**



**LED Lighting**



**CCTV Cameras**



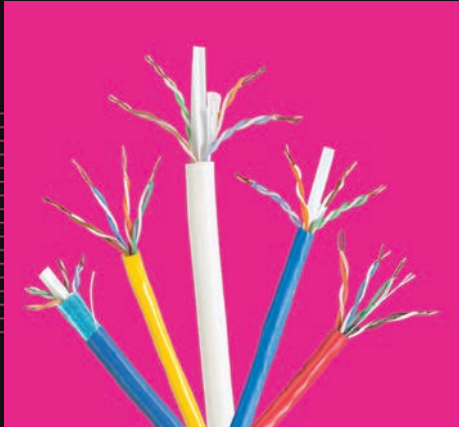
**For More Information Visit:**

Remee.com, and select '*Activate by Remee*' under the Fiber & Copper Cables tab.

# A Virtually Unlimited Selection of Powered Data Cables for Any Distance

## **Activate™ by Remee Powered Cable Solutions**

### Standard Category Cables



- > Cat 5e for PoE (Type 1, 802.3af), carrying 15.4WPS
  - Part No Series 5BE Plenum-rated – UTP, STP
- > Cat 6 and Cat 6A for PoE+ (Type 2, 802.3at) cables, carrying 30WPS
  - Part No Series 6B (Cat. 6) Plenum-rated – UTP, STP
  - Part No Series 6UBRD (Cat. 6A) Plenum-rated – UTP, STP
- > Cat. 6 Limited Power for PoE++ (22 AWG, CMP-LP rated)
  - Part No. 6BNS224LP5 – UTP

Riser rated, outside plant, and other jacket colors are available. See the [Activate™ by Remee](#) web page under 'Fiber & Copper Cables' on [remeec.com](#) for complete part number details.

### uTP™- utility Twisted Pair™



As a twisted pair power cable, this exciting addition to the *Activate™ by Remee* PCS line offers more distance opportunities than any other standard low voltage twisted pair.

- > Riser, Plenum, OSP, and LSZH versions
- > Utilizes 21AWG copper to reduce performance issues caused by heat
- > Enhanced "headroom" allows for usable bandwidth at extended distances
- > Ultra-low loss, high-speed dielectric
  - Part No. ACT4P21

Truly utility cables, *Activate™ by Remee* uTP™ cables have 4 UTP, 21 AWG, 100Ω and are RJ45 compatible. These innovative cables can be used for network appliances that require data and power to be delivered to locations that fall outside of the traditional Ethernet ring topology.

Supports building automation (BAS) and intelligent buildings (IBS) networked devices at distances well beyond the EIA/TIA standards for (Ethernet) Category cabling.

### Powered Fiber Copper Solutions (PFCS)



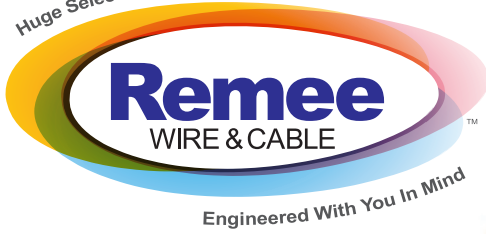
- > Custom hybrid composite cable constructions (round, oval, Siamese)
- > Copper: Bare copper stranded power conductors (10AWG to 24AWG)
- > Fiber: High performance Bend Insensitive Optical Fibers
- > Loose tube, tight buffer, and breakout designs

Ideal for delivering enhanced bandwidth to extended distances. Use for indoor cellular or wireless applications or whenever a large data backhaul is required, such as with MIMO and MU-MIMO.

PFCS cables are ideal for applications such as:

- Passive Optical Networks requiring power for ONT's utilizing a power supply
- Distributed Antenna Systems (DAS) requiring a large backhaul and a little power delivery
- Cellular/5G micro-cell antennas that require a large backhaul and a little power delivery





**Activate™ PCS – Bandwidth/Power Product Optimization Chart**

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	100Mbps	10Mbps
PoE (802.3af)	0.308	15.4	12.99	308	850	1050	1300	1700	24AWG (Cat 5E)	328	328	328
PoE+ (802.3at)	0.600	30	25.5	600	400	500	625	800	23AWG (Cat 6 or 6A)	328	328	328
PoE++ (802.3bt Type 3)	1.2 (2 Prs)	60	51	600x2	400	500	625	800	21AWG (Activate™ uTP)	656	700	1000
PoE++ (802.3bt Type 4)	2.0 (2 Prs)	100	71	1000x2	460	575	725	950		656	700	1000

\*\* Power distance is calculated based on Ohms Law. Your systems' equipment may include programming 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.

This helpful chart has been created to assist installers, contractors, integrators, and end-users in planning the installations and power requirements of their networked devices. System designers will be able to determine where PoE is an option, what data rate can be expected at the Powered Device (PD), and where costs may be reduced by eliminating mid-span power boosters.

**Intertek Confirms Activate™ uTP™ Performance**

Performance testing by Intertek has verified the performance values listed in this table, plus more. See full reports and download this chart on <https://remeë.com/lan-premise-cables/activate-powered-cable-solutions/>.

