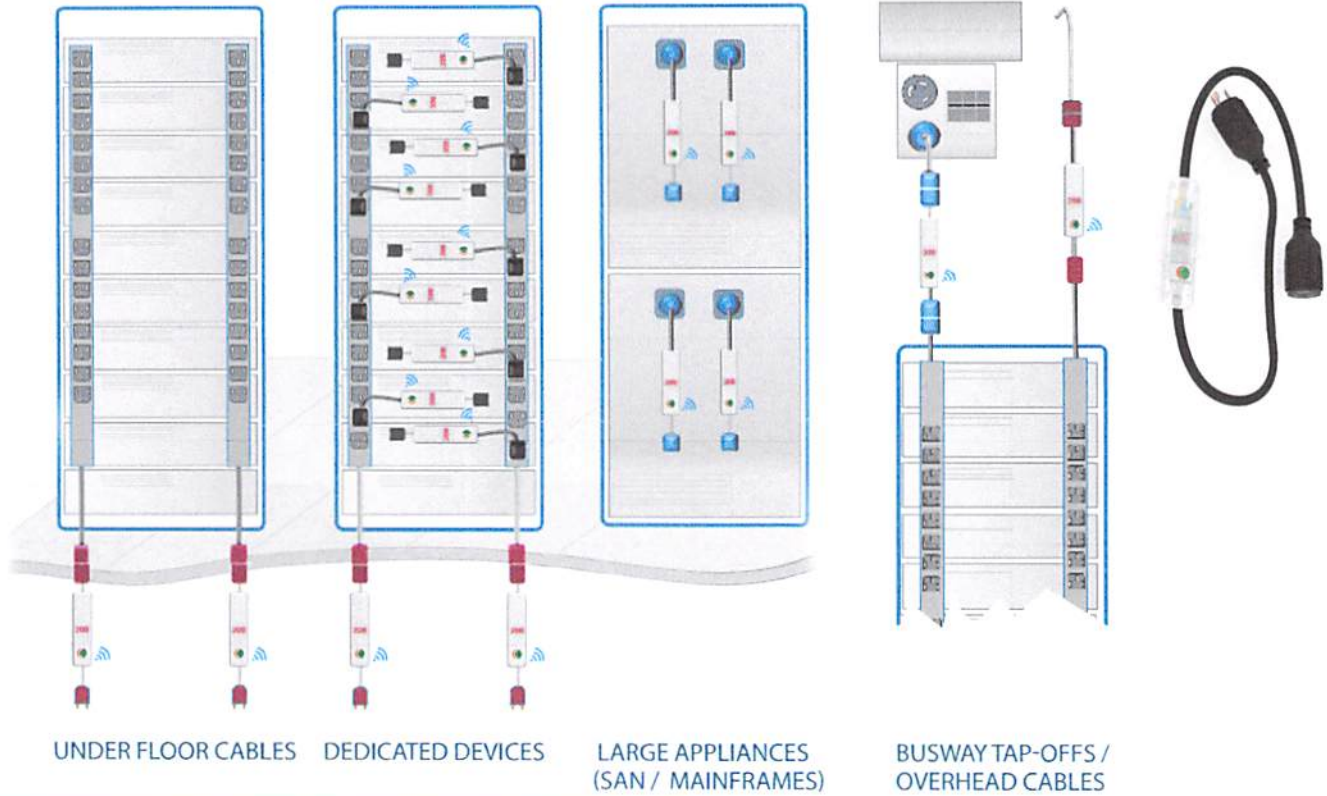


Smart Cable Applications



SMART POWER CABLE

Packet Power Architecture



Packet Power makes it easy to manage your monitoring network. The Ethernet Gateway automatically detects any new monitoring devices, seamlessly adding them to the network. The monitors communicate via a mesh network routing traffic through any nearby monitors to find the optimal path to a Gateway. This robust and resilient technology results in a wireless network that is as reliable as a wired network but much easier to install, manage and secure. Gateways, which can each support up to 200 monitoring units, can be added to expand capacity and provide redundancy.

- No costly network cable drops
- Uses your existing PDU
- Installs in minutes
- Self configuring
- Instantly ready to monitor
- Secure
- Scalable
- Works with any hardware or DCIM / BMS system



Smart Cable Models



Single Phase

- ▶ 10-32 A
- ▶ 100-240 VAC
- ▶ 3-wire cords 10-14 AWG (2.5-4mm²)
- ▶ Available in most plug and receptacle types



Three Phase

- ▶ 16-63 A
- ▶ 208-415 VAC
- ▶ 4-10 AWG (4-16mm²) 3,4,5 wire cords
- ▶ Available in most plug and receptacle types



OEM / Hardwired

- ▶ Hardwired cables for overhead busway and OEM applications

SMART POWER CABLE

Turn basic PDUs into "Smart PDUs" in minutes



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1 Plug Smart Power Cable into PDU



2 Connect wireless Gateway



3 Start Monitoring



- 1 Plug the Smart Power Cable in between the load and it's power source: The "Smart Cable" automatically begins to send monitoring information.
- 2 Connect the Ethernet Gateway module to your network. The Smart Cables and Gateway automatically detect each other and form a self configuring wireless network.
- 3 Access data in Packet Power's EMX energy portal or in your existing application via Modbus or SNMP.

COMMUNICATIONS

Operating frequency	860 to 920MHz and 2.4 GHz (frequencies vary by region)
Wireless protocol	Frequency hopping self-configuring load-balancing mesh
Wired network protocol	SNMP and Modbus TCP/IP protocols
Firmware updates	Wireless
Typical transmission range	10 to 30 meters indoors between any two devices in mesh network
Antenna	Fully enclosed, fixed configuration
Cable to Gateway ratio	Up to 200 cables per gateway with unlimited Gateways per system
Multi-site support	Yes
Encryption	128-bit

ENVIRONMENTAL

Operating temperature	-7° to +45°C (+20° to +113°F)
Operating humidity	5% to 95% non-condensing
Water and dust resistance	Indoor applications
Maximum operating altitude	2,000 meters (6,600 feet)
Power usage	Smart power cable: 0.6W Ethernet Gateway: 0.7W

OUTPUTS

LED status indicators	Red / Orange Power / Status (Red/Orange); Communication (Green)
Local display	3 Digit LED (cycles Amps, Volts, Watts by phase) ¹
Monitored points	Voltage (V), Current (A), Power (W), Energy (Wh), Apparent Power (VA), Power Factor (PF), Frequency (Hz), all measurements +/- 1%, Temperature (+/-2°C)

SIZE AND WEIGHT

S Models under 16A	150 cm (60 in), 0.45kg (1 lbs)
S Models 16A and above	120 cm (48 in), 0.75 – 1.0kg (1.5 to 2 lbs)
R Models	Approx 120 cm (48 in), 1.5 to 3 kg (3.5 to 7 lbs)

CERTIFICATIONS (ELECTRICAL SAFETY AND RADIO EMISSIONS)

UL/ANSI61010-1, CAN/CSA-C22.2 No.61010-1 (ETL), FCC Class B, CE (IEC/EN61010-1:2001, ETSI EN 300 220-2, ETSI EN 301 489-3, IEC/EN 61326-1), ICASA, and certain country-specific requirements in Australia/New Zealand and the UAE.

MODELS

Model	Voltage (V)	Amperage (A)	Type
S	100-240	10, 15, 16, 20, 30, 32	Single phase
R	120 / 208, 208-240, 240 / 415	16, 20, 30, 32, 50, 63, 100	Single Phase, Three Phase L-L and L-N

CONNECTOR TYPES

Model	NEMA	IEC	Other*
S (all single phase)	5-15 / L5-15 5-20 / L5-20 L5-30 6-15 / L6-15 6-20 / L6-20/L6-30	60320 C13 / C14 60320 C19 / C20 60309 2P+E 6h	Schuko CEE7-7, AS/NZA 3112 2000, BS 1363A (UK), BS 546A (India, S Africa), Whip, others on request
R – single phase		60309 2P+E 6h 360_6W	CS6361/6360, CS8264/8265, 3720/3913, 3750/3933, 3720U-1/3913U-1, 3720U-2/3913U-2, 9_23U2, 9_23U0, 9_33U0, 9_53U2, 9_63U2
R – 3-phase Wye	L21-20 L21-30 L22-22** L22-30**	60309 3P+N+E 6h 60390 3P+N+E 9h 60309 3P+N+E 9h 516_6W, 532_6W, 530_6W, 560_6W, 563_6W	9_54U2, IBM D/3760, 3934, CS8365/8364, 7428, and others on request
R – 3-phase Delta	L15-20 L15-30	420_9W, 430_9W, 460_9W	

* All cables are also available in a whip format (with no connectors). A “_” in a cable name indicates a placeholder for a P or C (e.g. 360_6W represents both 360P6W and 360C6W). Custom cables available. ¹ Local LED numeric display on “P” and “R” versions.
** L22-xx cables supported for use on 240/415 systems



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