

ARRIVES FINISHED. LISTED AS ONE. LANDS IN MINUTES.

IEC 60309 power drops, splitters, tap-box connectors and rack distribution for data center fit-outs. Built and UL Listed as assemblies in Somerset, New Jersey.



20 to 100 A

Series II pin and sleeve, UL Listed and CSA Certified on one part number

28.8 kW

per drop with the 50 A tap-box connector option, against 17.3 kW at 30 A

1,000 cycles

connect and disconnect under load at rated current, IEC 60309-1 clause 21

On a data hall fit-out the drop schedule is where the hours go. Every drop is a plug, a whip, a connector and a termination, made up at height from a lift, at the end of the schedule, and then walked by an inspector. **A finished, listed drop takes the termination hours and the listing question off the crew.**

01 THE PROBLEM: THE DROP SCHEDULE IS WHERE THE HOURS GO

Drops built in the field from listed parts carry three costs that never appear on the takeoff:

- **Built at height.** Plug, whip, connector and termination, per drop, from a lift, when the busway is already energized above and the racks are landing below.
- **Listed parts, unlisted whole.** A plug, a cord and a connector listed separately are not a listed assembly. The inspector asks for the file, and the answer is a conversation.
- **Late ratings.** Drop ratings settle after the panel schedule is released. The tap goes in before the drop is sized, and the field absorbs the change.

02 WHY WALTHER: THE WHOLE DROP ON ONE FILE

Walther wrote the 1960 proposal behind IEC 60309, and its US shop builds the plug, the cable or conduit, the connector and the box as one assembly.

- **Finished and listed.** Cord sets and wiring assemblies UL Listed as built, cut to the run, clock position set, ready to land.
- **Dual rated.** Series II ratings 20, 30, 60 and 100 A at 125 to 480 V, UL Listed and CSA Certified together, IP44 splashproof or IP67 watertight.
- **Mates with what is on the wall.** IEC 60309 devices interchange with any conforming maker, and adapter plates fit the back boxes already installed.
- **Density where the busway is full.** The 50 A Procon tap-box connector carries 28.8 kW per drop in the same tap box enclosure as a 30 A pin and sleeve at 17.3 kW.
- **Distribution above the rack.** 60 A IEC in, three 30 A IEC out, a breaker on each, in a 19 in metal enclosure.

03 WHERE IT LANDS ON THE BUILD

BUSWAY TAP DROPS

Tap box to rack, pin and sleeve or 50 A Procon, cable cut to the run.

UNDER-FLOOR WHIPS

Liquid-tight flexible conduit assemblies with weather, masonry or cast boxes.

OVERHEAD DROPS

Cord sets from tray or bus; IP67 connectors where the hall gets wet.

ABOVE-RACK DISTRIBUTION

60 A feed to three 30 A outlets, breaker on each, ahead of the in-rack strips.

CONSTRUCTION POWER

Cased 100 A portable units with GFCI for the trades before the gear is live.

LAB AND DYNO ROOMS

Interlocked receptacles for test equipment: no make or break under load.

04 PRODUCT LINE-UP

PRODUCT AND ROLE	RATING	RUN AND ENDS	LISTING	BUILD
 Finished power drops Plug, cable or conduit, connector and box, built as one	20 to 100 A; 125 to 480 V; 3, 4 or 5 wire	Cable 6 to 100 ft or liquid-tight conduit; plug, connector or both	UL Listed cord sets and wiring assemblies	To the drop schedule, clock position set
 Y-splitter assemblies One tap-box drop feeding two loads	20 A or 30 A three-phase	15 ft feed, two 3 ft legs, SOOW cable	UL wire-nut termination box	Plug in, two connectors out
 Rack distribution box RK06I43 at 277/480 V, RK06I53 at 120/208 V	60 A, 3P+N+G	60 A IEC inlet in; (3) 30 A IEC out	(3) 30 A 3-pole MCB, hinged clear cover	19 in metal enclosure, 13 lb
 Tap-box connector option 50 A Procon modular in the same tap box enclosure	50 A, 2,000 V; 28.8 kW per drop	3 ft 8/5C Type W assemblies, B6 hood with latch	UL and cUL E2071132	Same enclosures as hardwired
 Pin and sleeve devices Plugs, connectors, receptacles, inlets and back boxes	20, 30, 60, 100 A; 125 to 480 V	IP44 splashproof and IP67 watertight	UL Listed E329476, CSA Certified	Epoxy-coated cast back boxes; adapter plates

05 FROM DROP SCHEDULE TO QUOTE TO INSPECTOR.

Send the drop schedule and the assemblies come back numbered, priced and built in Somerset, so the crew lands them and the inspector reads **one listing per drop**.

- **The schedule is the order.** Count, rating, length, ends, cable or conduit and clock position map to a part number per drop.
- **Standard lengths, or yours.** Cable assemblies at 6, 10, 25, 50 and 100 ft; other lengths and conduit runs by quote.
- **Back boxes that pass the hose-down.** Cast aluminum, epoxy coated, 500 hour salt spray, UL hose-down and icing tests.
- **Supplier of record.** ISO 9001:2015 US shop (TUV Rheinland, July 2026); UL files for devices, cord sets and wiring assemblies.