

RJ45 SPLITTER/COMBINER uPOE CABLE

The RJ45 splitter/combiner uPOE cable is typically a passive adapter kit that can either send two 10/100 Mbps data lines over one cable or combine two PoE ports to power a single uPOE (up to 60W) device. The input and output voltages are equal, and the maximum transmission distance is typically around 30-40 meters (100-130 feet) when used for power transmission, depending on the connected device's power draw and cable quality.

Technical Specifications

General specifications for a typical generic RJ45 uPOE splitter/combiner kit are detailed below:

Parameter	Specification
Product Type	Passive PoE Splitter/Combiner Adapter Kit (Pair)
Part Number	Generic "uPOE" or "PoE Combiner/Splitter"
Data Transfer Rate	10/100 Mbps (Ethernet Doubler Mode)
Max Combined Power	Up to 60 Watts (when combining two 802.3at ports on Cat6 cable)
Input Voltage (Max)	Up to 57V (supports 5V, 12V, 24V, 48V devices in passive mode)
Connectors (per unit)	1x Female RJ45, 2x Male RJ45 (or variations)
Power Pins	4,5 (+) and 7,8 (-)
DC Jack/Plug Size	2.1mm * 5.5mm
Cable Compatibility	Cat5, Cat5e, Cat6

Transmission Distance 30-40 meters / 100-130 feet (depending on power draw)

Material Plastic, typically black

Safety Features Built-in surge and transient overvoltage protection

Operational Modes

- **Ethernet Doubler:** Used to run two separate 10/100 Mbps network connections over a single existing Ethernet cable run. The power is usually supplied locally to each device via the DC power jacks.
- **uPOE High-Power:** Used to combine the power output of two separate 802.3at/af PoE switch ports into one high-power (up to 60W) connection for a single uPOE-compatible device (e.g., specific high-end PTZ IP cameras or wireless access points).