



















Power Over Ethernet

<http://enterprise.netscout.com/poe>

802.3af/at Standards A and B — Power Sourcing Equipment (PSE)

VoIP Phones | Internet Appliances | WLAN | Security Cameras | Access Points

IEEE Standard PoE Pin/Data Assignment

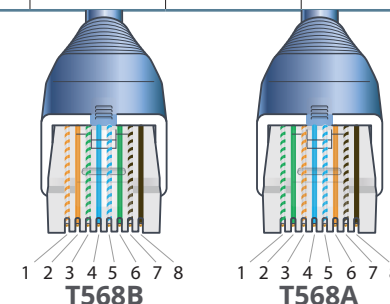
Pin at switch	TIA/EIA-568 T568B Termination	TIA/EIA-568 T568A Termination	10/100 Mode B DC on Spares		10/100 Mode A Mixed DC and Data		1000 (1 gigabit) Mode B DC and Bi-Data		1000 (1 gigabit) Mode A DC and Bi-Data	
1	 White/Orange	 White/Green	Rx+		Rx+	DC+	TxRx A+		TxRx A+	DC+
2	 Orange	 Green	Rx-		Rx-	DC+	TxRx A-		TxRx A-	DC+
3	 White/Green	 White/Orange	Tx+		Tx+	DC-	TxRx B+		TxRx B+	DC-
4	 Blue	 Blue		DC+	Not Used	Not Used	TxRx C+	DC+	TxRx C+	
5	 White/Blue	 White/Blue		DC+	Not Used	Not Used	TxRx C-	DC+	TxRx C-	
6	 Green	 Orange	Tx-		Tx-	DC-	TxRx B-		TxRx B-	DC-
7	 White/Brown	 White/Brown		DC-	Not Used	Not Used	TxRx D+	DC-	TxRx D+	
8	 Brown	 Brown		DC-	Not Used	Not Used	TxRx D-	DC-	TxRx D-	

IEEE Standard PoE Power Parameters

Property	802.3af (802.3at Type1)	802.3at Type 2
Power available at powered device (PD)	12.95 W	25.50 W
Maximum power delivered by power sourcing equipment (PSE)	15.40 W	30.00 W
Voltage range (at PD)	37.0 — 57 V	42.5 — 57 V
Voltage range (at PSE)	44.0 — 57 V	50.0 — 57 V

Power over Ethernet (PoE) enables power to be delivered to an IP device via its data cable.

NETSCOUT Network testers validate and troubleshoot PoE as well as overall network connectivity for copper, fiber and Wi-Fi networks depending on model. All network testers support automated upload of test results to the Link-Live results management database.



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