DC Motor Weidmuller Connector Color Code

Included with DC Motor Cable	Included with PoE Gateway to Motor Adaptor Cable	Included with Daisy Chain Adaptor Cable	Purchased Separately

Male Printed Weidmuller Connector (A) — V+ V- + - G — 1 2 3 4 5

DC Motor Port Wiring Pinout

Male Pin #	Function	Female Pin #
1	Power (+)	5
2	Power (-)	4
3	SDN RS485 (+)	3
4	SDN RS485 (-)	2
5	SDN RS485 Ground	1

Female Non-Printed Weidmuller Connector (B) (B) — 1 2 3 4 5 — 1 2 3 4 5

NOTE:
- *PoE Gateway can control up to four Motors.*
- *PoE Gateway moves the ST-50 Motors connected one at a time.*
- *Caution when mounting PoE Gateway to metal surfaces or pockets. Gateway must be isolated from possible earth or building electrical grounding, as well as from other Gateways.*

Printed Male Weidmuller Connector (Pre-Terminated to Gateway to Motor Adaptor Cable #9025010)
+24V DC, -24V DC, RS485 +, RS485 -, Ground

Non-Printed Female Weidmuller Connector #9025113 (Purchased Separately)
+24V DC, -24V DC, Ground, RS485 -, RS485 +

Printed Male Weidmuller Connector (Included with ST-50 Motor Cable #9020004)
+24V DC, -24V DC, RS485 +, RS485 -, Ground

Non-Printed Female Weidmuller Connector (Pre-Terminaited to Daisy Chain Adaptor #9020451)
+24V DC, -24V DC, Ground, RS485 -, RS485 +

Printed Male Weidmuller Connector (Pre-Terminaited to Daisy Chain Adaptor #9020451)
+24V DC, -24V DC, RS485 +, RS485 -, Ground

Non-Printed Female Weidmuller Connector (Pre-Terminated to ST-50 Motor Cable #9020004)
+24V DC, -24V DC, RS485 +, RS485 -, Ground

Somfy Power over Ethernet (PoE) Gateway
1860326
ETHERNET | SDN OUT

SDN Power over Ethernet (PoE) Gateway
#1860326 (Gateway only)
#1870445 (Gateway & Motor Adaptor Kit)

- Unshielded Twisted CAT-5e or higher (PowerWise 1G 4PPoE Indoor/Outdoor Cable recommended)
- TIA-568B Standard with Plastic RJ-45 Connectors
- Max Distance from Switch is 328'

120V AC

Power over Ethernet Switch
(Must support LLDP & be a Cisco UPoE compliant device)

PoE Gateway to Motor Adaptor
#9025010
(Included with Gateway Kit)

SDN Low-voltage Motor Cable

Daisy Chain Adaptor

ST-50 DC RS485 Cable Data and Power Pigtail
#9020004
(Included with Motor)

TO ST-50 DC MOTOR

SDN Low-voltage Motor Cable

Daisy Chain Adaptor

Motor Daisy Chain Adaptor for PoE Gateway
#9020451
(Purchased Separate from PoE Gateway)

TO ST-50 DC MOTOR

SDN Low-voltage Motor Cable

TO ST-50 DC MOTOR

SDN Low-voltage Motor Cable
14/2 + 22/3 TWS
#9020126 (Non-Plenum)
#9020127 (Plenum)
Max Distance from PoE to last Motor is 240'
(Purchased Separate from PoE Gateway)

ST-50 Motor Head Data Pinout

Pin #	Function	Color
1	Power (+)	Red
2	Power (-)	Black
3	NC	-
4	SDN RS485 (-)	Green
5	SDN RS485 (+)	Yellow
6	SDN RS485 Ground	White

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Revisions

Rev	Date	By	Description
-	--/--/--	-	
-	--/--/--	-	
-	--/--/--	-	
-	--/--/--	-	
-	--/--/--	-	

Dwg Title: PoE Gateway with Four ST-50 DC Motors Wire Detail

Dwg No.: POE-WIRING-05

Project name: Technical Library

Client: Somfy Systems

Address: 121 Herrod Boulevard, Dayton, NJ 08810