

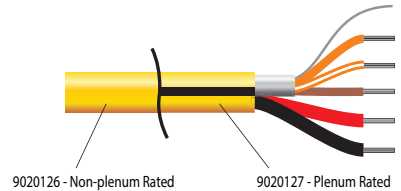
# SDN Low-voltage Motor Power and Data Cable



Item #: 9020126, 9020127

## OVERVIEW:

The **SDN Low-voltage Motor Power and Data Cable** is the power and communication backbone that connects low-voltage Somfy Digital Network™ (SDN) RS485 motors including the Sonesse® 50 ULTRA DC RS485 motor (Part# 1134022) and Sonesse® 30 RS485 Motor (Part# 1000658) to Somfy's Power Panel for SDN (Part# 1870259). Within a single jacket, this cable includes (1) 14 AWG power pair, (1) 22 AWG stranded, twisted and shielded data triad and (1) 24 AWG drain wire for the most reliable data communication on the market. With this cable, motor wiring runs can reach up to 240 ft. This cable is offered in plenum rated (Part# 9020127) and non-plenum rated (Part# 9020126) versions.



Purchase cable from Liberty AV Solutions

## SOMFY DIGITAL NETWORK SYSTEM OVERVIEW:

**Somfy Digital Network (SDN)** is Somfy's intelligent wired shading network. An SDN system is comprised of bus distribution devices that create a network for user interfaces, motorized applications and sensors to be connected. SDN is scalable, and suitable for both small and large projects, and the same components are used whether an SDN system remains standalone, integrated into third party automation systems, or with Somfy's animeo® IP automated total solar management system.

## TECHNICAL SPECIFICATIONS:

Electrical Specifications:	9020126	9020127
<b>22 AWG Data Triad</b>		
Conductor DCR:	16.6 Ω/1,000 ft.	15.7 Ω/1,000 ft.
Capacitance:	12.5 pF/ft.	12 pF/ft.
Impedance:	100 Ω	107 Ω
<b>14 AWG Power Pair</b>		
Conductor DCR:	2.7 Ω/1,000 ft.	4.05 Ω/1,000 ft.
Max voltage:	300V	
Max current:	8A@77°F	
Cable diameter:	0.284 in. (7.21 mm)	0.277 in. (7.04 mm)
Cable jacket:	Yellow	Yellow w/ black stripe
Cable jacket material:	Polyvinyl Chloride(PVC)	Plenum Rated Polyvinyl Chloride(PVC)
Operating temperature:	-4°F to 167°F (-20°C to 75°C)	32°F to 167°F (0°C to 75°C)
Weight:	0.056 lb./ft. or 56 lbs./1,000 ft. roll	0.059 lb./ft. or 59 lbs./1,000 ft. roll

- Cable type:
  - Twisted wire - non-shielded: 2 x 14 AWG (power),
  - Twisted and shielded 3 x 22 AWG (data),
  - 1 x 24 AWG:7 strand, tinned copper (drain)
- Shield type: 100% aluminum/poly shield foil
- Cable length per spool: 1000 ft.
- Ripcord: Nylon
- Regulatory Certification(s):
  - o NEC rated CL3R
  - o EU RoHS-2 2011/65/EU Compliant
  - o UL13 compliant in accordance to NEC article 725

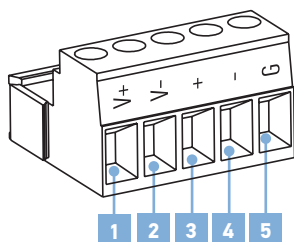
## FEATURES SUMMARY:

- Required to maintain SDN 2.0 quality promise
- Motor power and data install lengths up to 240 ft.
- Available in plenum and non-plenum rated options
- Minimizes ground noise produced by motors, switches or other electrical equipment
- Prevent signal corruption, damage to components connected to the bus, ground loops
- Protect against electrical line surges
- Compliant with the EIS/TIA-485 Standard
- UL certified

## RELATED PRODUCTS:

- |   |             |
|---|-------------|
| ■ Sonesse® 50 ULTRA DC RS485 Motor              | #1134022    |
| ■ Data and power pigtail (Sonesse® 50 ULTRA DC) | #9020004    |
| ■ Sonesse® 30 RS485 Motor                       | #1000658    |
| ■ Data and power pigtail (Sonesse® 30)          | Coming Soon |
| ■ Power Panel for SDN                           | #1870259    |

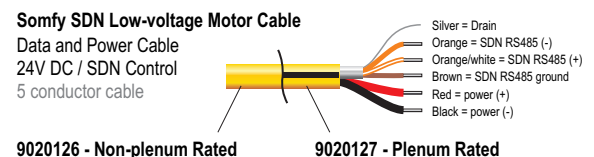
## CONNECTIONS AND INDICATORS:



ELEMENT	FUNCTION
1 <b>Voltage/Power - positive</b>	24V DC Power positive input
2 <b>Voltage/Power - negative</b>	24V DC Power negative input
3 <b>SDN RS485 - positive</b>	Data communication - positive
4 <b>SDN RS485 - negative</b>	Data communication - negative
5 <b>SDN RS485 - ground</b>	Data communication - ground

## CABLE PINOUTS

**Somfy SDN Low-voltage Motor Cable**  
Data and Power Cable  
24V DC / SDN Control  
5 conductor cable



# BEST WIRING PRACTICES

