120V AC RTS Motorized FlexShade®
Radio Technology 3-Wire Motors with a built-in radio receiver

Please check all appropriate selections and attach room schedule with verified dimensions.

Select Number of Shades per Unit

- ☐ Single Roller *(Standard)*
- ☐ Dual Roller *(Supplemental Fabric & Hardware Sheet Required)*

Please Note: If you are specifying a Dual Roller FlexShade, please complete the options BELOW and attach the Motorized Dual Roller Fabric and Hardware Planning Sheet.

Select Motor Location

As seen from INSIDE the room facing the window. Also indicate on room schedule.

- ☐ Right Side *(standard)*
- ☐ Left Side

Select 120V AC RTS Motor

- ☐ Sonesse RTS
- ☐ Sonesse Ultra RTS

Select Control Options

For specific control option, indicate Draper Part Number(s) in the space provided.

- ☐ Handheld Remote: _____
- ☐ Wireless Wall Switch: _____
- ☐ Optional Accessories *(consult DraperInc.com):*_____
  _____

Coupled Shades

- ☐ Yes *(How Many Fabric Panels?_____). Also indicate on room schedule.*
- ☐ No

Select Fabric Orientation

- ☐ Regular Roll *(from back of roller)*
- ☐ Reverse Roll *(from front of roller)*

Select Fabric Attachment

- ☐ Standard
- ☐ Optional Spline Attachment

Select Slat Style

- ☐ Closed Pocket - 1" *(25mm) Elliptical (standard)*
- ☐ Open Pocket - 1" *(25mm) Elliptical*
- ☐ Small Flat Exposed Hem Bar
- ☐ Large Flat Exposed Hem Bar
- ☐ Round Exposed Hem Bar
- ☐ 1 $\frac{3}{16}$" *(30mm) Tube*
- ☐ $\frac{5}{8}$" *(16mm) Tube*
- ☐ None

Single Roller Motorized Shade Options

Fabric Series: _____

Color Name / Number:_____

Openness Factor: _____
Please visit Draper Fabric Options for fabric colors and specifications.

Select Single Roller Hardware

- ☐ Brackets Only
  - ☐ Wall
  - ☐ Ceiling
- ☐ Endcaps Only
- ☐ Endcaps w/Fascia
- ☐ Surface Headbox *(Fascia & Top/Back Cover)*
- ☐ Headbox
  - ☐ Pocket Style Headbox
  - ☐ Type "D" Pocket w/Tile Lip *(White; not available w/ 3" roller)*
  - ☐ Custom Headbox
- ☐ Wall Clip
  - ☐ With Ceiling Tile Lip
  - ☐ Without Ceiling Tile Lip
- ☐ Closure Panel for Wall Clip, Type "D" Pocket or Custom Headbox
  - ☐ 1 $\frac{1}{2}$" *(38mm)*
  - ☐ 3" *(76mm)*
  - ☐ 5" *(127mm) (For Wall Clip and Custom Headbox Only)*
- ☐ Light Gap Reduction Hardware
  - ☐ 'L' Angle
  - ☐ 'U' Channel
  - ☐ 'H' Channel
  - ☐ Channel Liners

Select Hardware Finish *(does not apply to Type "D" Pocket)*

- ☐ Clear Anodized *(standard)*
- ☐ White
- ☐ Bronze
- ☐ Black
- ☐ Ivory
- ☐ Custom *(Contact Draper)*

Available Sizes:

WIDTH:	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'
2'													▓
3'													▓
4'												▓	▓
5'											▓	▓	▓
6'											▓	▓	▓
7'										▓	▓	▓	▓
8'									▓	▓	▓	▓	▓
9'									▓	▓	▓	▓	▓
10'								▓	▓	▓	▓	▓	▓
11'	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓
12'	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓
13'	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓
14'	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓	▓

(HEIGHT axis on left side)

* Sizes requiring large endcaps/brackets will vary according to fabric.

☐ Small endcaps/brackets and 2" (51mm) roller are recommended.
▓ Large endcaps/brackets and 3" (76mm) roller may be required.

PROJECT:_____
_____

ARCHITECT:_____

CONTRACTOR:_____

SUPPLIER:_____

DATE: _____ **REVISED:** _____

DRAPER®

Specifications

EQUIPMENT

SONESSE RTS 506 (C047.248): Drive unit inside roller, 3-wire, instantly reversible, lifetime lubricated. Right hand motor standard. Left hand available. Built-in radio receiver. Limit switches adjustable by wall switch or remote control. Thermal overload protector and electric brake. Operates on 110-120VAC 1 PH 60 HZ current. Draws 1.2 Amps. Sound level ≤ 44 dBA.

SONNESSE RTS 510 (C047.249): Drive unit inside roller, 3-wire, instantly reversible, lifetime lubricated. Right hand motor standard. Left hand available. Built-in radio receiver. Limit switches adjustable by wall switch or remote control. Thermal overload protector and electric brake.Operates on 110-120VAC 1 PH 60 HZ current. Draws 1.66 Amps. Sound level ≤ 47 dBA.

SONESSE ULTRA RTS 506 (C047.245): Drive unit inside roller, 3-wire, instantly reversible, lifetime lubricated. Right hand motor standard. Left hand available. Built-in radio receiver. Limit switches adjustable by wall switch or remote control. Thermal overload protector and electric brake. Operates on 110-120V AC 1 PH 60 HZ current. Draws 0.95 Amps. Sound level ≤ 38 Db.

HARDWARE

ROLLERS: Extruded aluminum or steel. Roller assembly easily removable.

OPTIONAL FABRIC ATTACHMENT: Fabric attached to roller tube with spline fabric attachment method. Allows for removal of fabric panel without removal of roller assembly.

MOUNTING BRACKETS: 1018 plated steel stamping. **2 SIZES:** 1 $^5/_8$" (41mm) and 2 ¼" (57mm). Styles for mounting to wall, ceiling, or jamb. Brackets do not require additional adapters.

ROLLER IDLER ASSEMBLY: Type $^6/_6$ injected molded nylon and a zinc-plated cold rolled steel pin. Sliding pin for easy installation and removal of the roller.

SLAT: Aluminum, min. $^1/_8$" x 1" (3 x 25mm), encased in heat seamed hem.

ENDCAPS: 1028 steel stamping. **2 SIZES:** 3¼" x 3¾" (83x95mm) and 4½" x 4½" (114x114mm). Complete with adapter roller bracket. Installs to wall, ceiling, or jamb. Accepts fascia or headbox.

ENDCAP COVERS: Plastic covers snap onto endcaps. Available in silver, ivory, bronze, black or white to match fascia.

FASCIA: "L" cover of extruded aluminum, .060 (1.5mm) wall. Fascia snaps onto endcaps. Clear Anodized (standard), black, white, ivory, or bronze powder coat finish available. Continuous fascia available with coupled units.

SURFACE HEADBOX: Consists of fascia, "L" shaped back/top cover. Endcaps slide into extrusion without exposed fasteners.

POCKET HEADBOX: Optional, for pocket installation, includes a "U" shaped back/top/front cover with removable bottom closure panel. **SMALL SIZE:** 3 $^7/_{16}$" x 3 $^{15}/_{16}$" (87x100mm). **LARGE SIZE:** 4 $^{11}/_{16}$" x 4 $^{11}/_{16}$" (119x119mm). Some exposed fasteners required.

TYPE D POCKET: Type D Shade Pocket, to be of extruded aluminum for perimeter installation. Accepts FlexShades installed with ceiling brackets. Finished in white paint. 5" x 5 $^3/_8$" x .125" (127x136x3mm) with $^7/_8$" (22mm) tile support lip & removable bottom closure.

LIGHT GAP REDUCTION HARDWARE: Extruded Aluminum. Accepts edges of fabric, prevents light gaps. Interior of channel provides for use of flat head screws.
"L" ANGLE: ¾" x 1" x 12'3" (1.9x2.5x373cm); 1" x 2¾" x 16' (2.5x7x488cm) or cut to length.
"U" CHANNEL: 1" x 2½" x 16' (2.5x76x488cm) or cut to length.
"H" CHANNEL: 1" x 5" x 16' (2.5x12.7x488cm) or cut to length.

COUPLER ASSEMBLY: Zinc plated steel Coupler Shafts shall be retractable into coupler assembly for ease of installation and to lock units in place. Zinc plated steel coupler brackets shall have spherical OD bearings allowing for misalignment of the mounting brackets of up to 1.25-degrees. One motor or crank operator to drive additional shade rollers. Patent pending.

PATENT INFORMATION: available at http://www.draperinc.com/legal/patents/

DOWNLOADABLE 3-PART SPECIFICATIONS: available at www.draperinc.com.

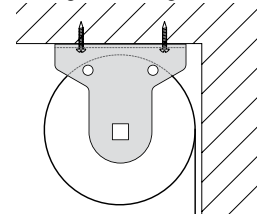*Please note:* Dimensions of rollers, operators and hardware at manufacturer's discretion.

Hardware Selections

Please Note: Brackets and endcaps have the attachment points for mounting a Motorized FlexShade. Optional fascia and headbox have a thickness of $^1/_{16}$" (1.5mm).
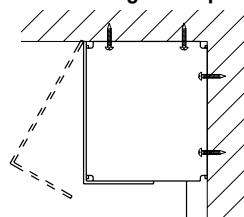
Wall Mounting Bracket
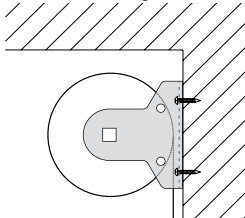
Ceiling Mounting Bracket
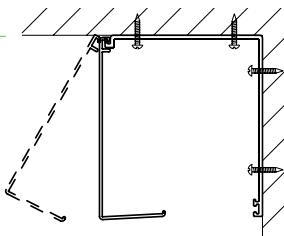
Fascia with Ceiling / Wall Mounting Endcaps

Headbox Installation Options

Surface Headbox
Consists of:
• Fascia,
• Back/Top Cover
• Ceiling/Wall Endcaps

Pocket Style Headbox
Consists of:
• Extruded pocket
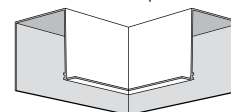• Bottom closure panel
• Ceiling/Wall Endcaps

Type D Pocket
Consists of:
• Extruded aluminum pocket.
• A lip supports lay-in ceiling.
• Pre-welded corners and ends available.
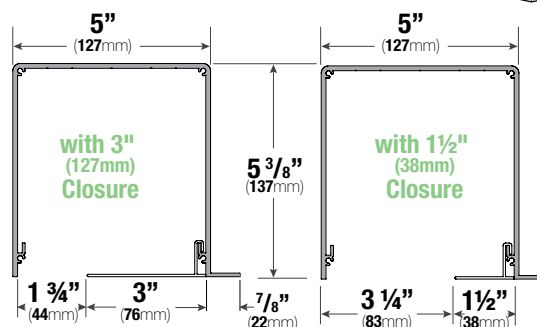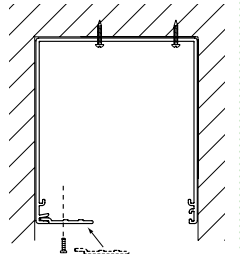• Ends with or without tile support lip.

Typical pre-welded corner section *(not to scale)*

5" (127mm)
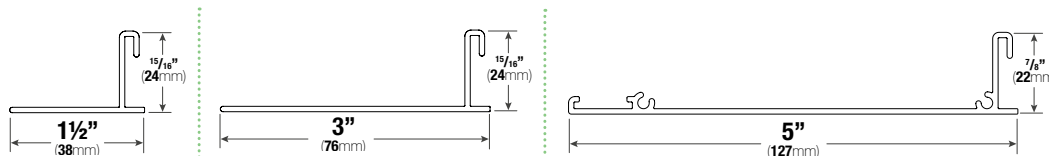with 3" (127mm) Closure
5 $^3/_8$" (137mm)
1 ¾" (44mm) 3" (76mm) $^7/_8$" (22mm)

5" (127mm)
with 1½" (38mm) Closure
3 ¼" (83mm) 1½" (38mm)

Closure & Wall Clip Options

Closure Options

1½" (38mm) $^{15}/_{16}$" (24mm)

3" (76mm) $^{15}/_{16}$" (24mm)

5" (127mm) $^7/_8$" (22mm)

Wall Clip Options

With Tile Lip
$^3/_{16}$" (5mm)
1 ¾" (44mm)
$^7/_8$" (22mm)

Without Tile Lip
$^3/_{16}$" (5mm)
1 ¾" (44mm)
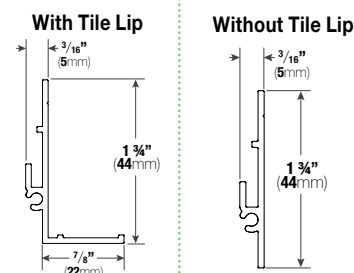
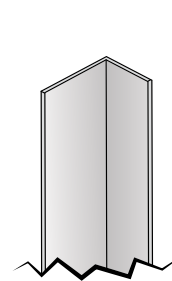**Spline Fabric Attachment**
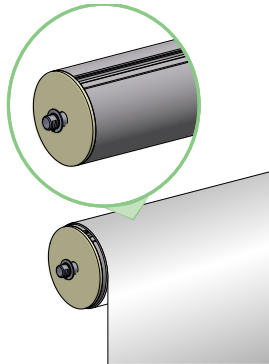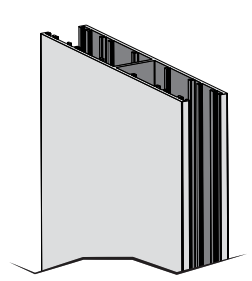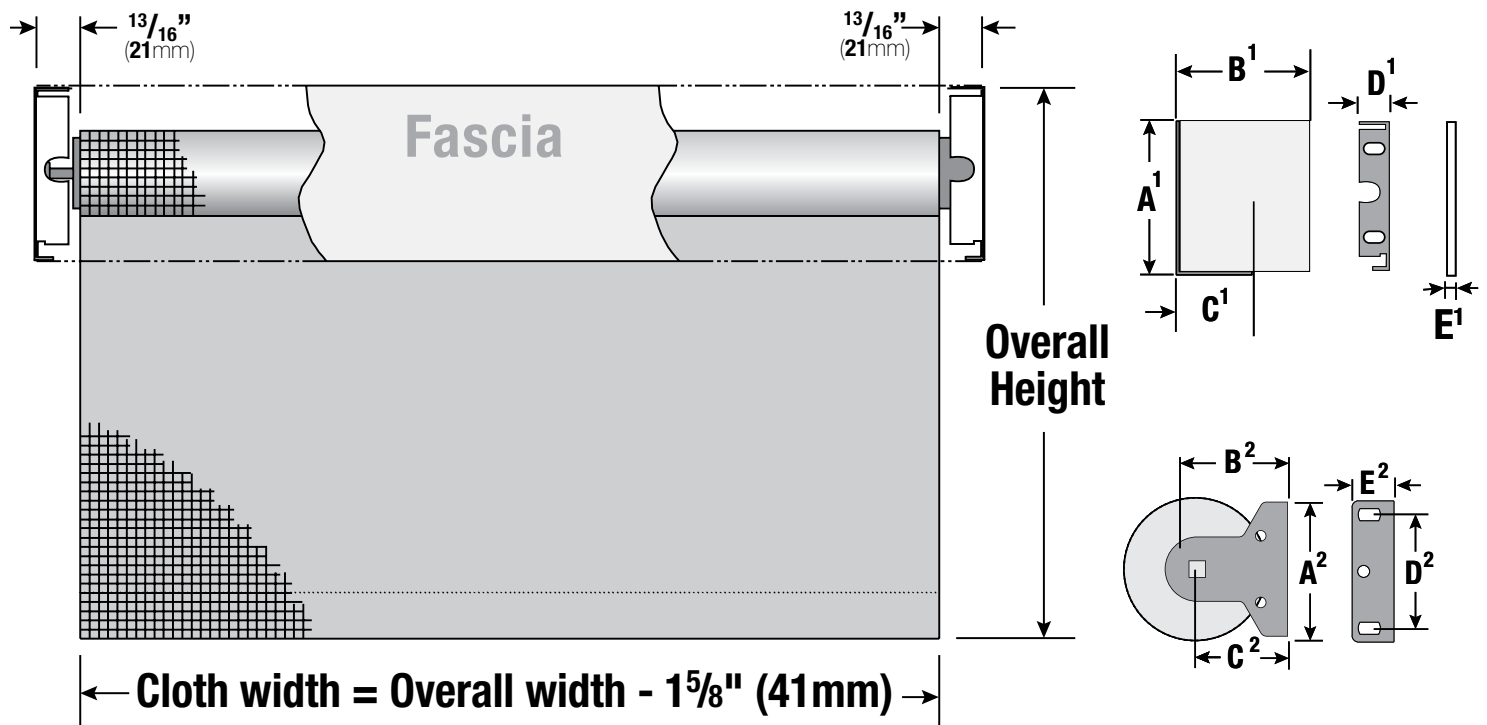
Endcap Covers
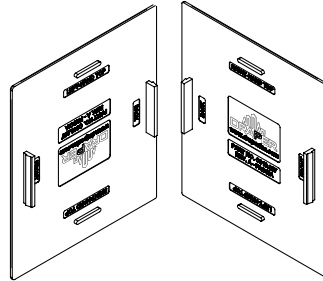
"U" Channel
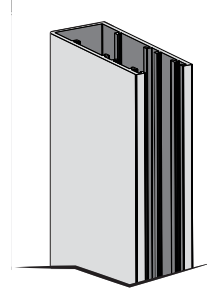
"L" Angle

"H" Channel

Motorized FlexShade Dimensions

Fascia Overall Width includes plastic endcap covers. Pair adds $1/8$" (3mm) to Overall Width of Small Hardware; $3/16$" (5mm) to Overall Width of Large Hardware.

$13/16$"
(**21**mm)

$13/16$"
(**21**mm)

Fascia

Overall Height

B^1

A^1

C^1

D^1

E^1

B^2

E^2

A^2

D^2

C^2

Cloth width = Overall width - $1\frac{5}{8}$" (41mm)

HEADBOX WITH ENDCAPS*	SMALL		LARGE	
A^1	3 $15/16$"	100mm	4 $11/16$"	119mm
B^1	3 $7/16$"	87mm	4 $11/16$"	119mm
C^1	1 $1/2$"	38mm	1 $5/8$"	41mm
D^1	$5/8$"	16mm	$5/8$"	16mm
E^1	$1/16$"	1.6mm	$3/32$"	2.4mm

ENDCAPS WITH FASCIA	SMALL		LARGE	
A^1	3 $7/8$"	98mm	4 $5/8$"	117mm
B^1	3 $3/8$"	86mm	4 $5/8$"	117mm
C^1	1 $1/2$"	38mm	1 $5/8$"	41mm
D^1	$5/8$"	16mm	$5/8$"	16mm
E^1	$1/16$"	1.6mm	$3/32$"	2.4mm

BRACKETS	SMALL		LARGE	
A	2$1/2$"	64mm	3 $1/4$"	83mm
B^2	2"	51mm	2 $5/8$"	67mm
C^2	1$5/8$"	41mm	2 $1/4$"	57mm
D^2	2"	51mm	2$5/8$"	67mm
E^2	$3/4$"	20mm	$3/4$"	20mm

* For Fascia, Subtract $1/16$" (1.6mm) from dimensions A and D

FlexShade Components

**Motorized FlexShade® RTS AC
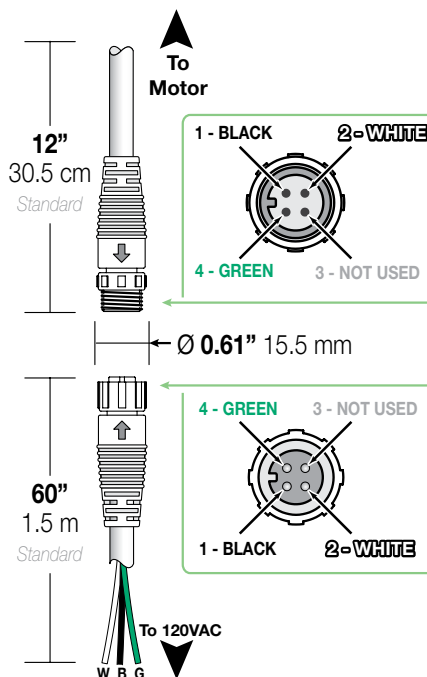with Sonesse RTS or Sonesse Ultra RTS
120VAC Operator**

CEILING

WALL

Brackets Only (R)
w/Optional Bracket Covers

M12 Power Cable →

Endcap Cover (R)

**Endcap (R)
for Fascia**

Motor Mounting Plate

CEILING

Brackets Only (L)
w/Optional Bracket Covers

WALL

Fascia

**Endcap (L)
for Fascia**

Endcap Cover (L)
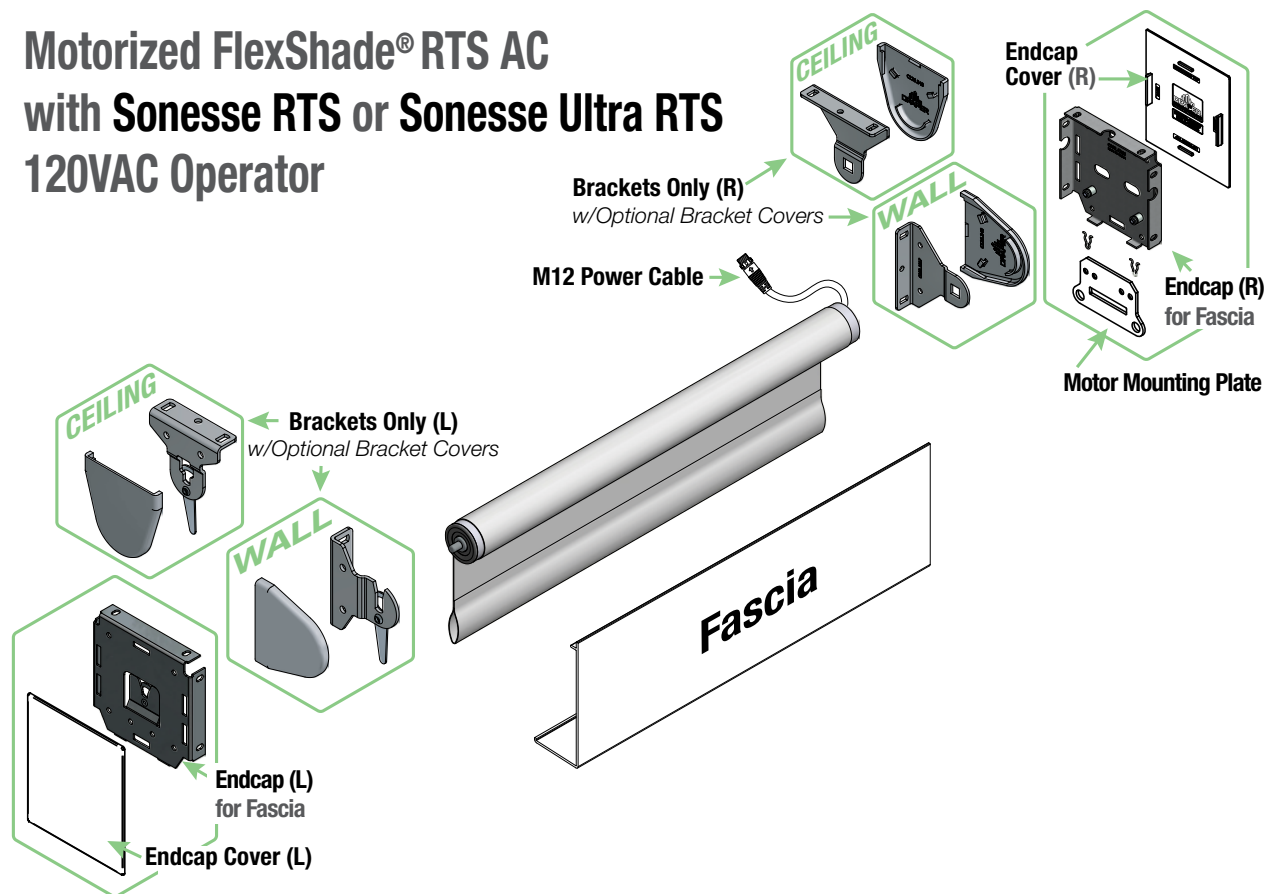
Wiring Diagrams

Controls & System Overview
Sonesse RTS 120VAC Motors

RTS
MOTOR
120V

M12 Connector

Ⓑ Ⓦ Ⓖ

110-120V Line

**Telis 1
RF Remote**

**Decora RTS
Wireless Keypad**

**Dashed Wiring
by Electrician**
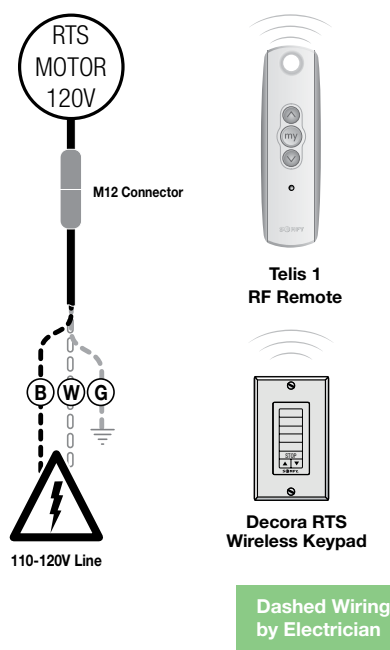
M12 Connector for 3-Wire Motors

To Motor

12"
30.5 cm
Standard

1 - BLACK   2 - WHITE
4 - GREEN   3 - NOT USED

Ø **0.61"** 15.5 mm

4 - GREEN   3 - NOT USED

60"
1.5 m
Standard

1 - BLACK   2 - WHITE

W B G

To 120VAC

**1' (30cm) motor lead with male M12 connector
provided attached to each shade motor**

Other motor cables available upon request:

5' (1.5m) cable with female M12 Connector
3' (0.91m) Motor cable with 3-prong NEMA plug
6' (1.83m) Motor cable with 3-prong NEMA plug
10' (3m) Motor cable with 3-prong NEMA plug
24' (7.32m) Motor cable with 3-prong NEMA plug

DRAPER®