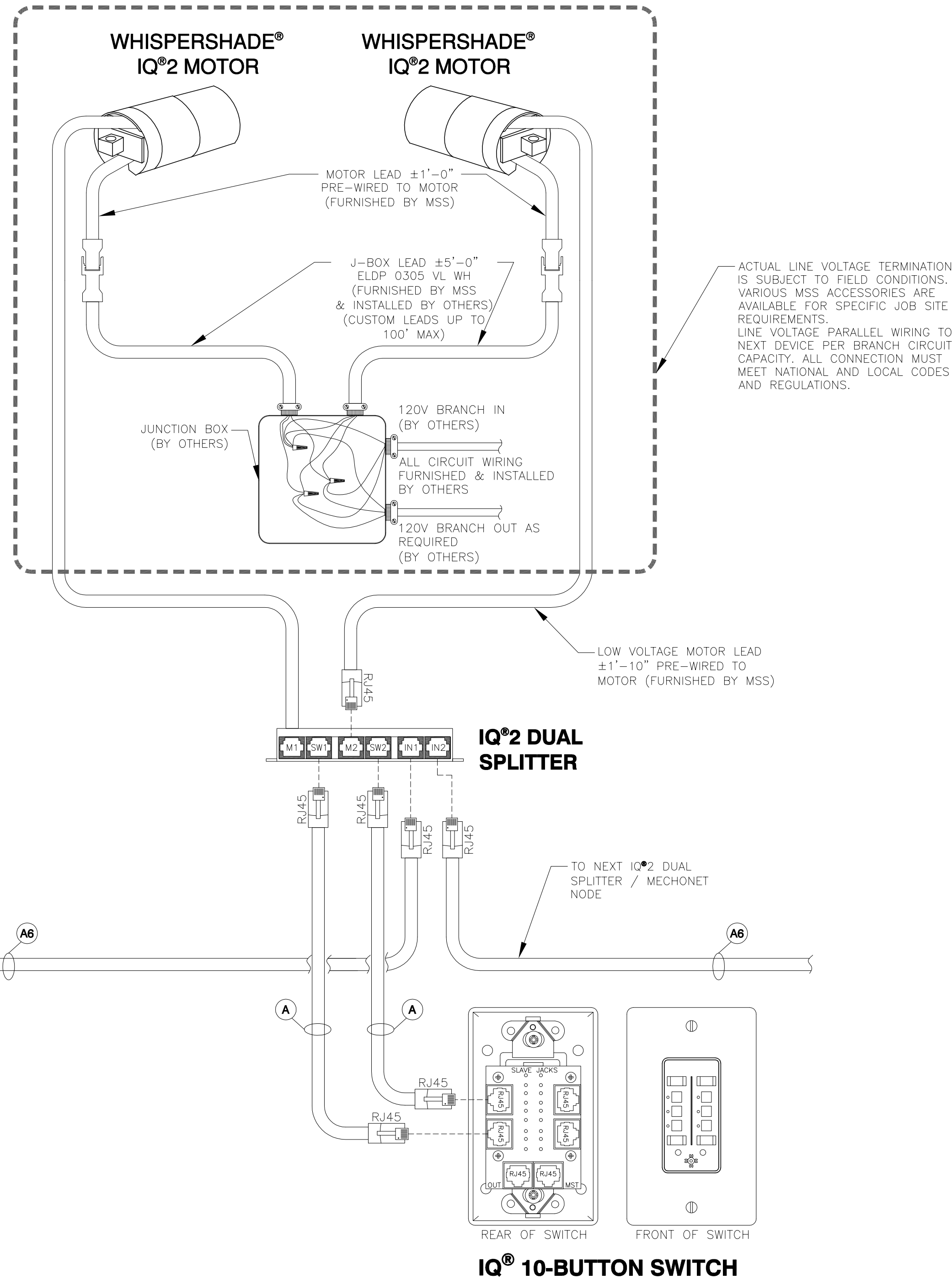
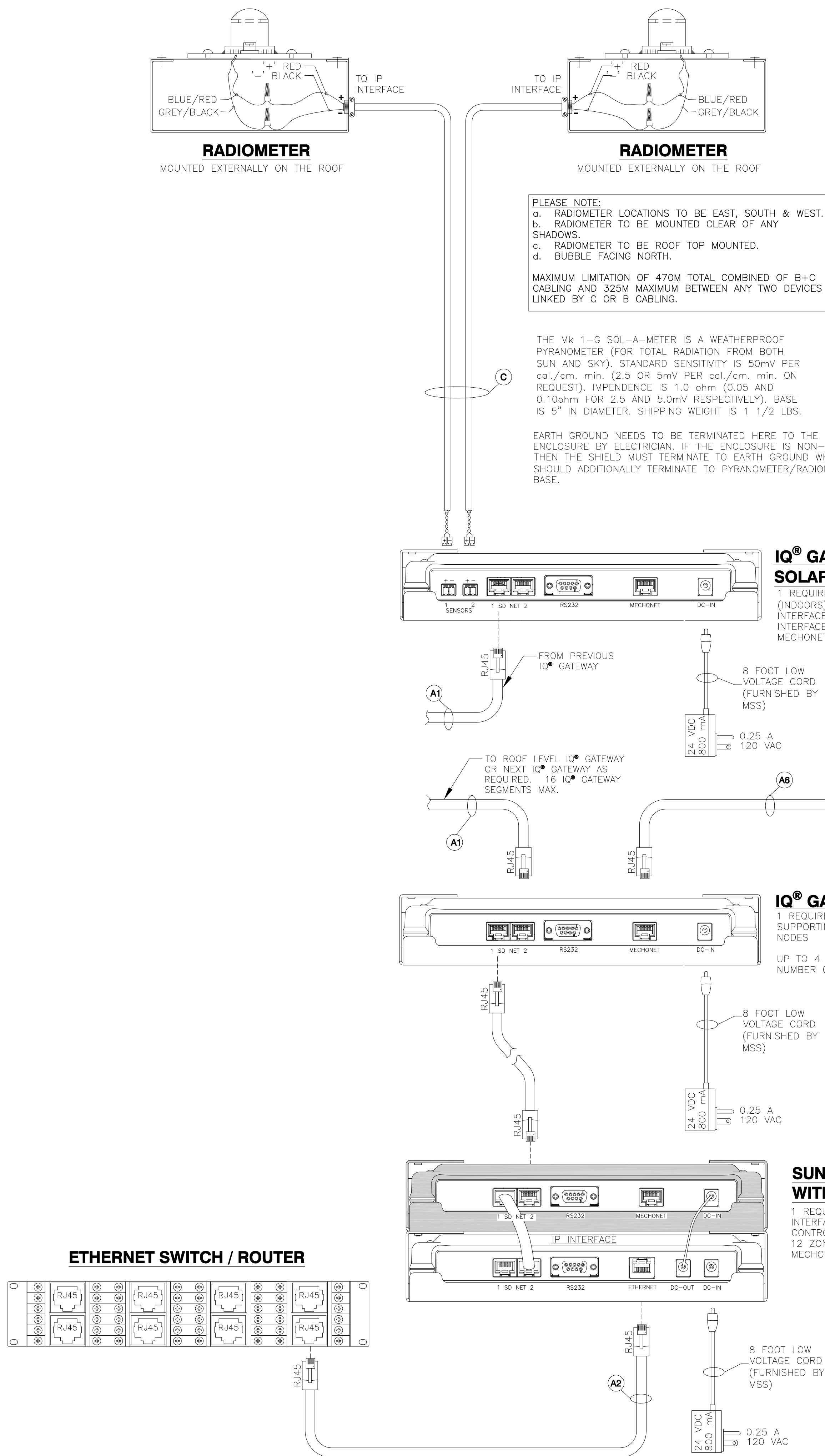


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## STANDARD ELECTRICAL NOTES

All electrical-control equipment (switches, MLCs, SACs, WACs, photocells, anemometers, FTS units, etc.) as indicated is furnished only by MechoSystems, installed and wired by the Electrical Contractor.

All electrical-control equipment must be wired in accordance with the wiring diagrams prepared by MechoSystems and in accordance with the N.E.C. and local codes.

Except for Intelligent motors, such as I-Con®, IQ®, IQ², RTS, ILT, and ILT2, parallel and/or series wiring of two or more motors on similar poles on a single switch or any other similar combination will void any applicable warranty and cause premature motor burnout.

For all Intelligent motors, such as I-Con®, IQ®, IQ2®, RTS, ILT, and ILT2, parallel and/or series wiring is allowed up to maximum circuit capacity.

All wiring diagrams have been prepared for right-hand motors, regular roll or left-hand motors, reverse roll which are wired similarly. Right-hand motors, reverse roll and left-hand motors, regular roll require switching the red and black motor wires at the MLC (Motor-Logic Controllers) or the switch. This will prevent the motors from running in opposite directions.

Electrical-control equipment may contain electromechanical relays, adjustment points, fuses, indicator lights, and other devices. These must be conveniently accessible for future servicing and adjustments during normal working hours and without disruption to the existing operations. This equipment shall be coded by the Electrical Contractor indicating shade locations and the specific motors which are controlled, and it shall be coded at the control equipment and circuit breaker.

Green motor wires are to be fastened to grounded junction boxes, conduits, or another suitable building ground.

### STANDARD (BI-DIRECTIONAL) MOTORS

The standard ElectroShade -motor lead is a PVC 4 conductor #18 stranded cable approximately one-foot (305mm) long with a 4 conductor disconnect-plug.

The standard ElectroShade™ furnished-only junction-box lead is the same type as the motor lead and has a plug compatible to it. This lead is approximately five-feet (1525 mm) long.

One or two motors can be wired on a single (double-pole, double-throw) switch. Please refer to Drawing No. M-160 for point-to-point connection. However, three or four motors wired to a single switch require the use of an MLC; five to eight motors require two MLCs; nine to 12 require three; and so forth. See Wiring Detail Drawings.

FTS MOTORS

The standard ElectroShade –motor lead is a PVC 5 conductor #18 stranded cable approximately one-foot (305mm) long with a 6 conductor disconnect–plug.

The standard ElectroShade furnished-only junction-box lead is the same type as the motor lead and has a plug compatible to it. This lead is approximately five-feet (1525 mm) long.

One or four FTS systems can be wired on a single push-button switch. Please refer to Drawing No. \_\_\_\_\_ for point-to-point connection. However, four or more FTS systems wired to a single switch require the use of a SGC; five to eight motors require one SGC; nine to 12 require two; and so forth. See Drawings No. \_\_\_\_\_

Some point-to-point wiring diagrams may not include motor disconnect-plugs, junction boxes, and cable raceways that may be essential for a complete installation.

## LOW VOLTAGE CABLE LEGEND

<b>A</b>	<p>CATS/6E – FOR LOW VOLTAGE DRY CONTACT CONNECTIONS</p> <p>24AWG 4UTP (8-CONDUCTOR STRANDED UNSHIELDED TWISTED PAIR) OLYMPIC WIRE AND CABLE (<a href="http://www.olympicwire.com">www.olympicwire.com</a> 1-800-526-2269) PART No. 3078M5FH.</p> <p>TERMINATION: RJ-45 MODULAR PLUG CRIMPED (USOC) ON BOTH ENDS</p>
	<p>CATS/6E – FOR LOW VOLTAGE DRY CONTACT CONNECTIONS IN PLENUM AREAS</p> <p>24AWG 4UTP (8-CONDUCTOR SOLID UNSHIELDED TWISTED PAIR) OLYMPIC WIRE AND CABLE (<a href="http://www.olympicwire.com">www.olympicwire.com</a> 1-800-526-2269) PART No. 3604M5S.</p> <p>SOLID CONDUCTOR RJ-45 MODULAR PLUGS CRIMPED (USOC) ON BOTH ENDS DISTANCE LIMITATION: 400' CUMULATIVE (FURNISHED &amp; INSTALLED BY OTHERS)</p>
<b>A1</b>	<p>CATS/6E – CABLE FOR SDNET</p> <p>24AWG 4UTP (8-CONDUCTOR STRANDED UNSHIELDED TWISTED PAIR) TERMINATION: RJ-45 MODULAR PLUGS CRIMPED (USOC) ON BOTH ENDS. DISTANCE LIMITATION: 4000' CUMULATIVE. MAX. NETWORK NODES: 16. (FURNISHED &amp; INSTALLED BY OTHERS)</p>
<b>A2</b>	<p>CATS/6E – CABLE FOR ETHERNET CONNECTIONS</p> <p>24AWG 4UTP (8-CONDUCTOR STRANDED UNSHIELDED TWISTED PAIR) TERMINATION: RJ-45 MODULAR PLUGS CRIMPED (EIA568A) ON BOTH ENDS DISTANCE LIMITATION: 325'. MAX. NODES: 2. (FURNISHED &amp; INSTALLED BY OTHERS)</p>
<b>A6</b>	<p>CATS/6E – CABLE FOR MECHONET</p> <p>24 AWG 4UTP (8-CONDUCTOR STRANDED UNSHIELDED TWISTED PAIR) TERMINATION: RJ-45 MODULAR PLUGS CRIMPED (USOC) ON BOTH ENDS DISTANCE LIMITATION: 4000' CUMULATIVE. MAX. NODES: 250. (FURNISHED &amp; INSTALLED BY OTHERS)</p>
<b>C</b>	<p>BELDEN TYPE 82760 18AWG 1STP (2-CONDUCTOR SHIELDED TWISTED PAIR) FOR PC INTERFACE/ANALOG I/O TO SENSOR CONNECTIONS PHOENIX CONNECTOR/CONNECTION</p> <p>"+" = RED "-" = BLACK "+" = BLUE/RED "-" = GREY/BLACK DISTANCE LIMITATION: 500' CUMULATIVE (FURNISHED &amp; INSTALLED BY OTHERS)</p>
<b>NOTES</b>	
<ol style="list-style-type: none"> <li>1. PARALLEL WIRING TO NEXT DEVICE PER BRANCH CIRCUIT CAPACITY. ALL CONNECTION MUST MEET NATIONAL AND LOCAL CODES AND REGULATIONS.</li> <li>2. ADDRESS SCHEDULES REQUIRED.</li> <li>3. MAXIMUM VOLTAGE FOR ALL UNMARKED CABLE IS 43.5 VDC.</li> </ol>	

## NOTES

1. PARALLEL WIRING TO NEXT DEVICE PER BRANCH CIRCUIT CAPACITY.  
ALL CONNECTION MUST MEET NATIONAL AND LOCAL CODES AND REGULATIONS
2. ADDRESS SCHEDULES REQUIRED.
3. MAXIMUM VOLTAGE FOR ALL UNMARKED CABLE IS 43.5 VDC.

NOTES:

- 1 - ALL DIMENSIONS AND JOB CONDITIONS TO BE FIELD VERIFIED BY DEALER BEFORE FABRICATION.
- 2 - ALL MATERIALS, COLORS, FINISHES, ETC. ARE TO BE MechoShade STANDARDS UNLESS OTHERWISE NOTED.
- 3 - MechoSystems RESERVES THE RIGHT TO MAKE DESIGN MODIFICATIONS AND TECHNICAL CHANGES WITHOUT PRIOR NOTICE

## SHOP DRAWING DIMENSIONS

DETAILS:	HARDWARE SIZES	± 1/32" (0.79mm)
	ROLL DIAMETER SIZES	± 1/8" (3.18mm)
SHADE BANDS:	EDGE CLEARANCE	± 3/16" (4.76mm)

## SHADE BANDS:

RollerShade width and height dimensions (W x HT) are approximate, subject to final field dimensions to be scheduled by the Dealer/Contractor and provided to MechoShade Systems for fabrication in accordance with Contract Documents Shop drawings are for typical details and shade locations only. Final sizes are not included. All blocking and supports are shown for reference only. Blocking design is not included in this Shop Drawing. Blocking is Not In Contract.

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1			
NO.	DATE	DESCRIPTION	BY
REVISIONS			



JOB		DWG. NO.	REV.	
		JOB NO.		
TITLE		PROPOSAL NO.		
		DATE	SCALE	
ARCHITECT		DWN. BY	CKD. BY	
DEALER		SHEET NO.	OF	