


|   |  |  |  |  |  |         |                |  |
|---|--|--|--|--|--|---------|----------------|--|
|  |  | <b>CABLE HARNESS - 2</b><br><b>KNITI V12</b> |  |  |  | Model.  | SUPER NOVA V12 |  |
|   |  |  |  |  |  | Doc.No. | EE-CK-KS-A001  |  |
|   |  |  |  |  |  | Rev.No. | 26-09-2025     |  |

|          |           |                        |        |           |           |          |         |         |
|----------|-----------|------------------------|--------|-----------|-----------|----------|---------|---------|
| 1        |           | Relay Output M12       |        |           |           |          |         |         |
|          | Conn. Pin | Ferrule No.            | Colour | Wire size | Length mm | PS. Size | 1st End | 2nd End |
|          | 1         | COM                    | Brown  | 0.5 sqmm  | 630       | 0.5      | O-Crimp | O-      |
|          | 2         | NO                     | White  | 0.5 sqmm  | 630       | 0.5      | O-Crimp | O-      |
|          | 4         | NC                     | Black  | 0.5 sqmm  | 630       | 0.5      | O-Crimp | O-      |
| 2        |           | Relay Input            |        |           |           |          |         |         |
|          | Conn. Pin | Ferrule No.            | Colour | Wire size | Length mm | PS. Size | 1st End | 2nd End |
| Loop     |           | R-5V                   | Brown  | 0.5 sqmm  | 840       | 0.5      | S-Crimp | O-Crimp |
|          |           | R-0V                   | Blue   | 0.5 sqmm  | 840       | 0.5      | S-Crimp | O-Crimp |
|          |           | DO1                    | White  | 0.5 sqmm  | 840       | 0.5      | S-Crimp | O-Crimp |
| 3        |           | Opto coupler Output    |        |           |           |          |         |         |
|          | Conn. Pin | Ferrule No.            | Colour | Wire size | Length mm | PS. Size | 1st End | 2nd End |
| Loop     |           | R-0V                   | Blue   | 0.5 sqmm  | 330       | 0.5      | O-Crimp | O-Crimp |
|          |           | DI1                    | Black  | 0.5 sqmm  | 330       | 0.5      | O-Crimp | O-Crimp |
| 4        |           | Opto coupler Input M12 |        |           |           |          |         |         |
|          | Conn. Pin | Ferrule No.            | Colour | Wire size | Length mm | PS. Size | 1st End | 2nd End |
|          | 1         | 12V                    | Brown  | 0.5 sqmm  | 210       | 0.5      | S-      | O-      |
|          | 2         | 0V                     | Blue   | 0.5 sqmm  | 210       | 0.5      | S-      | O-      |
|          | 3         | 0V                     | Blue   | 0.5 sqmm  | 340       | 0.5      | S-Crimp | O-      |
|          | 4         | DI1                    | Black  | 0.5 sqmm  | 340       | 0.5      | S-Crimp | O-      |
| 5        |           | Blower Fan             |        |           |           |          |         |         |
|          | Conn. Pin | Ferrule No.            | Colour | Wire size | Len.mm    | PS. Size | 1st End | 2nd End |
|          |           | B-12V                  | Brown  | 0.5 sqmm  | 400       | 0.5      | S-Crimp | O-      |
|          |           | B-0V                   | Blue   | 0.5 sqmm  | 400       | 0.5      | S-Crimp | O-      |
| 6        |           | Light M12              |        |           |           |          |         |         |
|          | Conn. Pin | Ferrule No.            | Colour | Wire size | Length mm | PS. Size | 1st End | 2nd End |
|          | 1         | 12V                    | Brown  | 0.5 sqmm  | 240       | 0.5      | S-      | O-      |
|          | 2         | 0V                     | Blue   | 0.5 sqmm  | 240       | 0.5      | S-      | O-      |
|          | 3         | 12V                    | Brown  | 0.5 sqmm  | 240       | 0.5      | S-      | O-      |
|          | 4         | 0V                     | Blue   | 0.5 sqmm  | 240       | 0.5      | S-      | O-      |
| 7        |           | Monitor                |        |           |           |          |         |         |
|          | Conn. Pin | Ferrule No.            | Colour | Wire size | Length mm | PS. Size | 1st End | 2nd End |
|          |           | D-12V                  | Brown  | 0.5 sqmm  | 280       | 0.5      | S-Crimp | O -     |
|          |           | D-0V                   | Blue   | 0.5 sqmm  | 280       | 0.5      | S-Crimp | O -     |
| 8        |           | SMPS                   |        |           |           |          |         |         |
|          | Conn. Pin | Ferrule No.            | Colour | Wire size | Length mm | PS. Size | 1st End | 2nd End |
| O - LOOP |           | 12V                    | Brown  | 0.5 sqmm  | 410       | 0.5      | O-Crimp | S-Crimp |
|          |           | 12V                    | Brown  | 0.5 sqmm  | 410       | 0.5      | O-Crimp | S-Crimp |
|          |           | 0V                     | Blue   | 0.5 sqmm  | 410       | 0.5      | O-Crimp | S-Crimp |
| O - LOOP |           | 0V                     | Blue   | 0.5 sqmm  | 410       | 0.5      | O-Crimp | S-Crimp |

|                  |                    |               |                  |                  |                 |                   |                |                |
|------------------|--------------------|---------------|------------------|------------------|-----------------|-------------------|----------------|----------------|
| <b>Light</b>     |                    |               |                  |                  |                 |                   |                |                |
| <b>Conn. Pin</b> | <b>Ferrule No.</b> | <b>Colour</b> | <b>Wire size</b> | <b>Length mm</b> | <b>PS. Size</b> | <b>No.of core</b> | <b>1st End</b> | <b>2nd End</b> |
|                  | 12V                | Red           | 1 sqmm           | 2000             | 1               | 2 core            | Crimp          | Crimp          |
|                  | 0V                 | Black         | 1 sqmm           |                  | 1               |                   | Crimp          | Crimp          |
| <b>Light</b>     |                    |               |                  |                  |                 |                   |                |                |
| <b>Conn. Pin</b> | <b>Ferrule No.</b> | <b>Colour</b> | <b>Wire size</b> | <b>Length mm</b> | <b>PS. Size</b> | <b>No.of core</b> | <b>1st End</b> | <b>2nd End</b> |
|                  | 12V                | Red           | 1 sqmm           | 2000             | 1               | 2 core            | Crimp          | Crimp          |
|                  | 0V                 | Black         | 1 sqmm           |                  | 1               |                   | Crimp          | Crimp          |
| <b>Sensor</b>    |                    |               |                  |                  |                 |                   |                |                |
| <b>Conn. Pin</b> | <b>Ferrule No.</b> | <b>Colour</b> | <b>Wire size</b> | <b>Length mm</b> | <b>PS. Size</b> | <b>No.of core</b> | <b>1st End</b> | <b>2nd End</b> |
|                  | 12V                | Brown         | 0.25 sqmm        | 2000             | 0.5             | 3 core            | Conn           | Crimp          |
|                  | 0V                 | Blue          | 0.25 sqmm        |                  | 0.5             |                   | Conn           | Crimp          |
|                  | DI1                | Black         | 0.25 sqmm        |                  | 0.5             |                   | Conn           | Crimp          |
| <b>Relay</b>     |                    |               |                  |                  |                 |                   |                |                |
| <b>Conn. Pin</b> | <b>Ferrule No.</b> | <b>Colour</b> | <b>Wire size</b> | <b>Length mm</b> | <b>PS. Size</b> | <b>No.of core</b> | <b>1st End</b> | <b>2nd End</b> |
|                  | COM                | Brown         | 0.25 sqmm        | 2000             | 0.5             | 3 core            | Conn           | Crimp          |
|                  | NO                 | White         | 0.25 sqmm        |                  | 0.5             |                   | Conn           | Crimp          |
|                  | NC                 | Black         | 0.25 sqmm        |                  | 0.5             |                   | Conn           | Crimp          |

|   |
|---|
| IEC Electrical wiring color code standard                       |
| International Electrotechnical Commission (IEC) IEC 60445:2021. |

**Single-Phase AC (IEC Standard):**

| Function         | Label | Colour       |
|------------------|-------|--------------|
| Line / Phase     | L     | Red          |
| Neutral          | N     | Black        |
| Protective Earth | PE    | Green-Yellow |

**DC Power System**

| Function | Label | Colour |
|----------|-------|--------|
| Positive | (+)   | Brown  |
| Negative | (-)   | Blue   |

| Control Cable colour code |       | Control Cable colour code |              |
|---------------------------|-------|---------------------------|--------------|
| 1                         | Brown | 1                         | Red          |
| 2                         | Blue  | 2                         | Black        |
| 3                         | White | 3                         | Yellow/Green |
| 4                         | Black |                           |              |