

# Harness

## Mating harness

Model	Harness model #		Model	Harness model #	
	Input	Output		Input	Output
LHA10F	H-IN-5 or H-IN-10	H-OU-34	SNA-01,-03	H-OU-8	H-OU-8
LHA15F		H-OU-34	SNA-06	H-OU-9	H-OU-9
LHA30F		H-OU-9	SNR-10	H-OU-18	H-OU-18
LHA50F		H-OU-9	LDA10F	H-IN-5 or H-IN-10	H-OU-8
LHA75F		H-OU-18	LDA15F		H-OU-8
LHA100F		H-OU-18	LDA30F, *LFA30F		H-OU-9
LHA150F, LHP150F		H-OU-18	LDA50F, LEA50F, *LFA50F		H-OU-9
LHA300F, LHP300F		H-OU-46	LDA75F, LEA75F, *LFA75F		H-OU-18
*LHA300F, *LHP300F		H-OU-10	LDA100W, LEA100F, *LFP100F, *LFA100F		H-OU-10
*LHP300F		H-OU-54	*LMA100F, LEP100F, 150F, 240F		H-OU-11 H-OU-12 H-OU-34 H-OU-34
LCA10S	H-IN-4	H-OU-7			
LCA15S	H-IN-4	H-OU-8			
LCA30S	H-OU-9	LDA150W, LEA150F, *LFP150F, *LFA150F, *LFA240F, *LFP240F, *LMA150F, *LMA240F			
LCA50S, *LGA50A	H-IN-5 or H-IN-10	H-OU-9	*LFA10F		
LCA75S, *LGA75A		H-OU-18	*LFA15F		
LCA100S, *LGA100A		H-OU-10	*LDA300W		
LCA150S, *LGA150A	H-IN-10	H-OU-11	* Optional : connector type "-J" (LDA300W) * Optional : connector type "-J1" (LGA50A, 75A, 100A, 150A, 240A) * Optional : connector type "-J1" (LFA10F, 15F, 30F, 50F, 75F, 100F, 150F, 240F, 300F) * Optional : connector type "-J1" (LFP100F, 150F, 240F, 300F) * Optional : connector type "-J1" (LMA100F, 150F, 240F) * Optional : connector type "-J5" (LHA300F) * Optional : connector type "-J5" (LHP300F)		
*LGA240A, *LFA300F, *LFP300F	H-IN-14	H-OU-11			
TECS	H-IN-29	H-OU-9			

LCA Series  
 LDA Series  
 LGA Series  
 LEA Series  
 LEP Series  
 LFA Series  
 LFP Series  
 LHA Series  
 LHP Series  
 LMA Series  
 SNA Series  
 SNR Series  
 TECS Series

<p>●Model number <b>H-IN-4</b> Housing : XHP-7 (J.S.T.) Pin : SXH-001T-P0.6 (J.S.T.) Weight : 10g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1007</td> <td>22</td> <td>black</td> <td>500</td> </tr> <tr> <td>2, 3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>UL1007</td> <td>22</td> <td>white</td> <td>500</td> </tr> <tr> <td>5, 6</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td>UL1007</td> <td>22</td> <td>green</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1	UL1007	22	black	500	2, 3					4	UL1007	22	white	500	5, 6					7	UL1007	22	green	500
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1	UL1007	22	black	500																												
2, 3																																
4	UL1007	22	white	500																												
5, 6																																
7	UL1007	22	green	500																												
<p>●Model number <b>H-IN-5</b> Housing : VHR-5N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 30g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>18</td> <td>white</td> <td>500</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>UL1015</td> <td>18</td> <td>green</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1	UL1015	18	black	500	2					3	UL1015	18	white	500	4					5	UL1015	18	green	500
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1	UL1015	18	black	500																												
2																																
3	UL1015	18	white	500																												
4																																
5	UL1015	18	green	500																												
<p>●Model number <b>H-IN-7</b> Housing : 1-178128-5 (Tyco Electronics) Pin : 1-175218-2 or 1-175218-3 (Tyco Electronics) Weight : 35g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>white</td> <td>500</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>UL1015</td> <td>18</td> <td>green/yellow</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1	UL1015	18	white	500	2					3	UL1015	18	black	500	4					5	UL1015	18	green/yellow	500
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1	UL1015	18	white	500																												
2																																
3	UL1015	18	black	500																												
4																																
5	UL1015	18	green/yellow	500																												
<p>●Model number <b>H-IN-10</b> Housing : VHR-5N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 30g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>18</td> <td>white</td> <td>500</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>UL1015</td> <td>18</td> <td>green/yellow</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1	UL1015	18	black	500	2					3	UL1015	18	white	500	4					5	UL1015	18	green/yellow	500
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1	UL1015	18	black	500																												
2																																
3	UL1015	18	white	500																												
4																																
5	UL1015	18	green/yellow	500																												
<p>●Model number <b>H-IN-14</b> Housing : VHR-8N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 60g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1, 2</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4, 5</td> <td>UL1015</td> <td>18</td> <td>white</td> <td>500</td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7, 8</td> <td>UL1015</td> <td>18</td> <td>green</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1, 2	UL1015	18	black	500	3					4, 5	UL1015	18	white	500	6					7, 8	UL1015	18	green	500
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1, 2	UL1015	18	black	500																												
3																																
4, 5	UL1015	18	white	500																												
6																																
7, 8	UL1015	18	green	500																												
<p>●Model number <b>H-IN-29</b> Housing : VHR-3N(J.S.T) Pin : SVH-21T-P1.1 or BVH-21T-P1.1 (J.S.T) Weight : 25g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>AWG18</td> <td>white</td> <td>500</td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>AWG18</td> <td>black</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1	UL1015	AWG18	white	500	2	-	-	-	-	3	UL1015	AWG18	black	500										
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1	UL1015	AWG18	white	500																												
2	-	-	-	-																												
3	UL1015	AWG18	black	500																												

<p>●Model number <b>H-OU-7</b> Housing : XHP-2 (J.S.T.) Pin : SXH-001T-P0.6 (J.S.T.) Weight : 7g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1007</td> <td>22</td> <td>black</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1007</td> <td>22</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1007	22	black	500	2	UL1007	22	red	500										
Pin #	Wire	AWG	Color	Length ℓ (mm)																							
1	UL1007	22	black	500																							
2	UL1007	22	red	500																							
<p>●Model number <b>H-OU-8</b> Housing : XHP-4 (J.S.T.) Pin : SXH-001T-P0.6 (J.S.T.) Weight : 15g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1007</td> <td>22</td> <td>black</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1007</td> <td>22</td> <td>black</td> <td>500</td> </tr> <tr> <td>3</td> <td>UL1007</td> <td>22</td> <td>red</td> <td>500</td> </tr> <tr> <td>4</td> <td>UL1007</td> <td>22</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1007	22	black	500	2	UL1007	22	black	500	3	UL1007	22	red	500	4	UL1007	22	red	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																							
1	UL1007	22	black	500																							
2	UL1007	22	black	500																							
3	UL1007	22	red	500																							
4	UL1007	22	red	500																							
<p>●Model number <b>H-OU-9</b> Housing : VHR-4N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 40g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> <tr> <td>4</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1015	18	black	500	2	UL1015	18	black	500	3	UL1015	18	red	500	4	UL1015	18	red	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																							
1	UL1015	18	black	500																							
2	UL1015	18	black	500																							
3	UL1015	18	red	500																							
4	UL1015	18	red	500																							
<p>●Model number <b>H-OU-10</b> Housing : VHR-8N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 80g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1 - 4</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>5 - 8</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1 - 4	UL1015	18	black	500	5 - 8	UL1015	18	red	500										
Pin #	Wire	AWG	Color	Length ℓ (mm)																							
1 - 4	UL1015	18	black	500																							
5 - 8	UL1015	18	red	500																							
<p>●Model number <b>H-OU-11</b> Housing : VHR-6N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 60g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1 - 6</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1 - 6	UL1015	18	red	500															
Pin #	Wire	AWG	Color	Length ℓ (mm)																							
1 - 6	UL1015	18	red	500																							
<p>●Model number <b>H-OU-12</b> Housing : VHR-7N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 70g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1 - 7</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1 - 7	UL1015	18	black	500															
Pin #	Wire	AWG	Color	Length ℓ (mm)																							
1 - 7	UL1015	18	black	500																							
<p>●Model number <b>H-OU-18</b> Housing : VHR-6N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 60g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1 - 3</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>4 - 6</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1 - 3	UL1015	18	black	500	4 - 6	UL1015	18	red	500										
Pin #	Wire	AWG	Color	Length ℓ (mm)																							
1 - 3	UL1015	18	black	500																							
4 - 6	UL1015	18	red	500																							
<p>●Model number <b>H-OU-22</b> Housing : 1-178288-8 (Tyco Electronics) Pin : 1-175218-2 or 1-175218-3 (Tyco Electronics) Weight : 100g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1 - 5</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>6 - 10</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1 - 5	UL1015	18	black	500	6 - 10	UL1015	18	red	500										
Pin #	Wire	AWG	Color	Length ℓ (mm)																							
1 - 5	UL1015	18	black	500																							
6 - 10	UL1015	18	red	500																							
<p>●Model number <b>H-OU-34</b> Housing : VHR-2N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 20g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1015	18	black	500	2	UL1015	18	red	500										
Pin #	Wire	AWG	Color	Length ℓ (mm)																							
1	UL1015	18	black	500																							
2	UL1015	18	red	500																							
<p>●Model number <b>H-OU-46</b> Housing : VHR-10N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 100g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1 - 5</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>6 - 10</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1 - 5	UL1015	18	black	500	6 - 10	UL1015	18	red	500										
Pin #	Wire	AWG	Color	Length ℓ (mm)																							
1 - 5	UL1015	18	black	500																							
6 - 10	UL1015	18	red	500																							
<p>●Model number <b>H-OU-54</b> Housing : VHR-8N (J.S.T.) Pin : SVH-41T-P1.1 (J.S.T.) Weight : 100g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1 - 4</td> <td>UL1430</td> <td>16</td> <td>black</td> <td>500</td> </tr> <tr> <td>5 - 8</td> <td>UL1430</td> <td>16</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1 - 4	UL1430	16	black	500	5 - 8	UL1430	16	red	500										
Pin #	Wire	AWG	Color	Length ℓ (mm)																							
1 - 4	UL1430	16	black	500																							
5 - 8	UL1430	16	red	500																							

Mating harness

Model	Harness model #	
	Input	Output
LFA10F	H-IN-12	H-OU-33
LFA15F		H-OU-33
LFA30F, *LHA30F		H-OU-28
LFA50F, LGA50A, *LHA50F		H-OU-28
LFA75F, LGA75A, *LHA75F, *LHA100F, *LHA150F, *LHP150F		H-OU-29
LFP100F, LFA100F, LGA100A, LMA100F		H-OU-30
LFP150F, LFA150F, LGA150A, LFA240F, LFP240F, LMA150F, LMA240F		H-OU-31
*LHA300F, *LHP300F		H-OU-47
LGA240A, LFA300F, LFP300F	H-IN-13	H-OU-31
		H-OU-32

LGA Series  
LFA Series  
LFP Series  
LHA Series  
LHP Series  
LMA Series

\*Optional:connector type "-J4"  
(LHA30F,50F,75F,100F,150F,300F)  
\*Optional:connector type "-J4"  
(LHP150F,300F)

<p>●Model number <b>H-IN-12</b> Housing : 1-1123722-5 (Tyco Electronics) Pin : 1123721-1 or 1318912-1 (Tyco Electronics) Weight : 30g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>18</td> <td>white</td> <td>500</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>UL1015</td> <td>18</td> <td>green</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1	UL1015	18	black	500	2					3	UL1015	18	white	500	4					5	UL1015	18	green	500
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1	UL1015	18	black	500																												
2																																
3	UL1015	18	white	500																												
4																																
5	UL1015	18	green	500																												
<p>●Model number <b>H-IN-13</b> Housing : 1-1123722-8 (Tyco Electronics) Pin : 1123721-1 or 1318912-1 (Tyco Electronics) Weight : 55g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1,2</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4,5</td> <td>UL1015</td> <td>18</td> <td>white</td> <td>500</td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7,8</td> <td>UL1015</td> <td>18</td> <td>green</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1,2	UL1015	18	black	500	3					4,5	UL1015	18	white	500	6					7,8	UL1015	18	green	500
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1,2	UL1015	18	black	500																												
3																																
4,5	UL1015	18	white	500																												
6																																
7,8	UL1015	18	green	500																												
<p>●Model number <b>H-OU-28</b> Housing : 1-1123722-4 (Tyco Electronics) Pin : 1123721-1 or 1318912-1 (Tyco Electronics) Weight : 40g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> <tr> <td>4</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1	UL1015	18	black	500	2	UL1015	18	black	500	3	UL1015	18	red	500	4	UL1015	18	red	500					
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1	UL1015	18	black	500																												
2	UL1015	18	black	500																												
3	UL1015	18	red	500																												
4	UL1015	18	red	500																												
<p>●Model number <b>H-OU-29</b> Housing : 1-1123722-6 (Tyco Electronics) Pin : 1123721-1 or 1318912-1 (Tyco Electronics) Weight : 60g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1 - 3</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>4 - 6</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1 - 3	UL1015	18	black	500	4 - 6	UL1015	18	red	500															
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1 - 3	UL1015	18	black	500																												
4 - 6	UL1015	18	red	500																												
<p>●Model number <b>H-OU-30</b> Housing : 1-1123722-8 (Tyco Electronics) Pin : 1123721-1 or 1318912-1 (Tyco Electronics) Weight : 75g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1 - 4</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>5 - 8</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1 - 4	UL1015	18	black	500	5 - 8	UL1015	18	red	500															
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1 - 4	UL1015	18	black	500																												
5 - 8	UL1015	18	red	500																												
<p>●Model number <b>H-OU-31</b> Housing : 1-1123722-6 (Tyco Electronics) Pin : 1123721-1 or 1318912-1 (Tyco Electronics) Weight : 60g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1 - 6</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1 - 6	UL1015	18	red	500																				
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1 - 6	UL1015	18	red	500																												

<p>●Model number <b>H-OU-32</b> Housing : 1-1123722-7 (Tyco Electronics) Pin : 1123721-1 or 1318912-1 (Tyco Electronics) Weight : 70g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1 - 7</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1 - 7	UL1015	18	black	500					
Pin #	Wire	AWG	Color	Length $l$ (mm)													
1 - 7	UL1015	18	black	500													
<p>●Model number <b>H-OU-33</b> Housing : 1-1123722-2 (Tyco Electronics) Pin : 1123721-1 or 1318912-1 (Tyco Electronics) Weight : 20g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1	UL1015	18	black	500	2	UL1015	18	red	500
Pin #	Wire	AWG	Color	Length $l$ (mm)													
1	UL1015	18	black	500													
2	UL1015	18	red	500													
<p>●Model number <b>H-OU-47</b> Housing : 1-1123722-0 (Tyco Electronics) Pin : 1123721-1 or 1318912-1 (Tyco Electronics) Weight : 100g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1 - 5</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>6 - 10</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1 - 5	UL1015	18	black	500	6 - 10	UL1015	18	red	500
Pin #	Wire	AWG	Color	Length $l$ (mm)													
1 - 5	UL1015	18	black	500													
6 - 10	UL1015	18	red	500													

## LFP Series

Harness for connecting the external capacitor unit is prepared for LFP240/300F(U1 type).

<p>●Model number <b>H-IN-23</b> Housing : VHR-4N(J.S.T.) Pin : SVH-21T-P1.1(J.S.T.) Weight : 5g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>UL1015</td> <td>20</td> <td>black</td> <td>100</td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>UL1015</td> <td>20</td> <td>red</td> <td>100</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1					2	UL1015	20	black	100	3					4	UL1015	20	red	100
Pin #	Wire	AWG	Color	Length $l$ (mm)																							
1																											
2	UL1015	20	black	100																							
3																											
4	UL1015	20	red	100																							

## LHA Series LHP Series

Harness for connecting the external capacitor unit is prepared for LHA150F/300F and LHP150F/300F (U1 type).

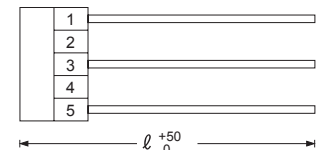
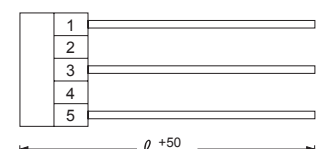
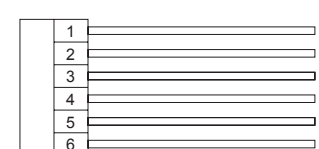
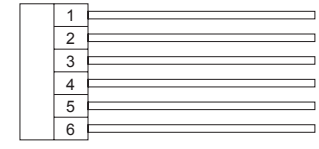
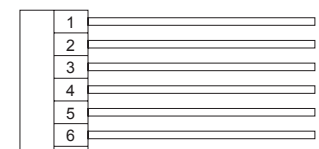
<p>●Model number <b>H-IN-25</b> CN A: Housing : VHR-3N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) CN B: Housing : VHR-4N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 5g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td rowspan="3">CN A</td> <td>1</td> <td>UL1015</td> <td>20</td> <td>black</td> <td>100</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>20</td> <td>red</td> <td>100</td> </tr> <tr> <td rowspan="4">CN B</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>UL1015</td> <td>20</td> <td>black</td> <td>100</td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>UL1015</td> <td>20</td> <td>red</td> <td>100</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	CN A	1	UL1015	20	black	100	2					3	UL1015	20	red	100	CN B	1					2	UL1015	20	black	100	3					4	UL1015	20	red	100
Pin #	Wire	AWG	Color	Length $l$ (mm)																																								
CN A	1	UL1015	20	black	100																																							
	2																																											
	3	UL1015	20	red	100																																							
CN B	1																																											
	2	UL1015	20	black	100																																							
	3																																											
	4	UL1015	20	red	100																																							

Mating harness

LEB Series  
LDC Series

Model	Harness model #		
	Input	Output	Option: -Z □
LEB100F	H-IN-5 or H-IN-10	H-OU-23	H-OU-25
LEB150F		H-OU-23	
LEB225F		H-OU-24	

Model	Harness model #	
	Input	Output
LDC15F	H-IN-5 or H-IN-10	H-OU-13
LDC30F		H-OU-14
LDC60F		H-OU-19

<p>●Model number <b>H-IN-5</b></p> <p>Housing : VHR-5N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 30g max</p>	<p>●Type</p> 	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>18</td> <td>white</td> <td>500</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>UL1015</td> <td>18</td> <td>green</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1	UL1015	18	black	500	2					3	UL1015	18	white	500	4					5	UL1015	18	green	500
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1	UL1015	18	black	500																												
2																																
3	UL1015	18	white	500																												
4																																
5	UL1015	18	green	500																												
<p>●Model number <b>H-IN-10</b></p> <p>Housing : VHR-5N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 30g max</p>	<p>●Type</p> 	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>18</td> <td>white</td> <td>500</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>UL1015</td> <td>18</td> <td>green/yellow</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1	UL1015	18	black	500	2					3	UL1015	18	white	500	4					5	UL1015	18	green/yellow	500
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1	UL1015	18	black	500																												
2																																
3	UL1015	18	white	500																												
4																																
5	UL1015	18	green/yellow	500																												
<p>●Model number <b>H-OU-13</b></p> <p>Housing : XHP-8 (J.S.T.) Pin : SXH-001T-P0.6 (J.S.T.) Weight : 25g max</p>	<p>●Type</p> 	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1, 2</td> <td>UL1007</td> <td>22</td> <td>red</td> <td>500</td> </tr> <tr> <td>3, 4</td> <td>UL1007</td> <td>22</td> <td>black</td> <td>500</td> </tr> <tr> <td>5</td> <td>UL1007</td> <td>22</td> <td>orange</td> <td>500</td> </tr> <tr> <td>6, 7</td> <td>UL1007</td> <td>22</td> <td>gray</td> <td>500</td> </tr> <tr> <td>8</td> <td>UL1007</td> <td>22</td> <td>purple</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1, 2	UL1007	22	red	500	3, 4	UL1007	22	black	500	5	UL1007	22	orange	500	6, 7	UL1007	22	gray	500	8	UL1007	22	purple	500
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1, 2	UL1007	22	red	500																												
3, 4	UL1007	22	black	500																												
5	UL1007	22	orange	500																												
6, 7	UL1007	22	gray	500																												
8	UL1007	22	purple	500																												
<p>●Model number <b>H-OU-14</b></p> <p>Housing : VHR-6N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 60g max</p>	<p>●Type</p> 	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>purple</td> <td>500</td> </tr> <tr> <td>2, 3</td> <td>UL1015</td> <td>18</td> <td>gray</td> <td>500</td> </tr> <tr> <td>4</td> <td>UL1015</td> <td>18</td> <td>orange</td> <td>500</td> </tr> <tr> <td>5</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>6</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1	UL1015	18	purple	500	2, 3	UL1015	18	gray	500	4	UL1015	18	orange	500	5	UL1015	18	black	500	6	UL1015	18	red	500
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1	UL1015	18	purple	500																												
2, 3	UL1015	18	gray	500																												
4	UL1015	18	orange	500																												
5	UL1015	18	black	500																												
6	UL1015	18	red	500																												
<p>●Model number <b>H-OU-19</b></p> <p>Housing : VHR-8N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 80g max</p>	<p>●Type</p> 	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>purple</td> <td>500</td> </tr> <tr> <td>2, 3</td> <td>UL1015</td> <td>18</td> <td>gray</td> <td>500</td> </tr> <tr> <td>4</td> <td>UL1015</td> <td>18</td> <td>orange</td> <td>500</td> </tr> <tr> <td>5, 6</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>7, 8</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1	UL1015	18	purple	500	2, 3	UL1015	18	gray	500	4	UL1015	18	orange	500	5, 6	UL1015	18	black	500	7, 8	UL1015	18	red	500
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1	UL1015	18	purple	500																												
2, 3	UL1015	18	gray	500																												
4	UL1015	18	orange	500																												
5, 6	UL1015	18	black	500																												
7, 8	UL1015	18	red	500																												

●Model number  
**H-OU-23**  
 Housing : VHR-8N (J.S.T.)  
 Pin : SVH-21T-P1.1 (J.S.T.)  
 Weight : 80g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)
1, 2	UL1015	18	gray	500
3, 4	UL1015	18	orange	500
5, 6	UL1015	18	black	500
7, 8	UL1015	18	red	500

●Model number  
**H-OU-24**  
 Housing : VHR-10N (J.S.T.)  
 Pin : SVH-21T-P1.1 (J.S.T.)  
 Weight : 100g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)
1, 2, 3	UL1015	18	gray	500
4, 5, 6	UL1015	18	orange	500
7, 8	UL1015	18	black	500
9, 10	UL1015	18	red	500

●Model number  
**H-OU-25**  
 Housing : XHP-3 (J.S.T.)  
 Pin : SXH-001-P0.6 (J.S.T.)  
 Weight : 10g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)
1	UL1007	22	orange	500
2	UL1007	22	gray	500
3	UL1007	22	purple	500

Harness for remote ON/OFF(R type) is prepared in LDA, LEA, LEB, LEP, LFA, LFP & LMA series.

LDA Series  
 LEA Series  
 LEB Series  
 LEP Series  
 LFA Series  
 LFP Series  
 LHA Series  
 LHP Series  
 LMA Series

Mating harness

Model	Harness model #
LDA50F, LDA75F, LDA100W, LDA150W, LDA300W	H-RC-1
LEA50F, LEA75F, LEA100F, LEA150F, LEP100F, LEP150F, LEP240F	
LEB100F, LEB150F, LEB225F	
LFA100F, LFA150F, LFA240F, LFA300F, LFP100F, LFP150F, LFP240F, LFP300F	
LHA100F, LHA150F, LHA300F, LHP150F, LHP300F	
LMA100F, LMA150F, LMA240F	

<p>●Model number</p> <p><b>H-RC-1</b></p> <p>Housing : XHP-2 (J.S.T.)                  Pin : SXH-001T-P0.6 (J.S.T.)                  Weight : 7g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length l (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1007</td> <td>22</td> <td>orange</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1007</td> <td>22</td> <td>blue</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length l (mm)	1	UL1007	22	orange	500	2	UL1007	22	blue	500
Pin #	Wire	AWG	Color	Length l (mm)													
1	UL1007	22	orange	500													
2	UL1007	22	blue	500													

Harness to use the function of the output module is prepared in MAX series.

## MAX Series

### Mating harness

Model	Harness model #	Contents
MAX1600F	H-SN-3	Harness for using no function of the output module. It is appended to standard model.
MAX1600T	H-SN-4	Harness for using all functions of output module.
MAX3200T	H-SN-6	Harness for using all functions except remote sensing of the output module.

●Model number  
**H-SN-3**

Housing : PHDR-12VS (J.S.T.)  
Pin : SPHD-002T-P0.5 (J.S.T.)  
Weight : 1g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1061	28	red	30
2	UL1061	28	black	30
3	UL1061	28	red	30
4	UL1061	28	black	30
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
11	-	-	-	-
12	-	-	-	-

---

●Model number  
**H-SN-4**

Housing : PHDR-12VS (J.S.T.)  
Pin : SPHD-002T-P0.5 (J.S.T.)  
Weight : 10g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	-	-	-	-
2	-	-	-	-
3	UL1061	28	red	500
4	UL1061	28	black	500
5	UL1061	28	brown	500
6	UL1061	28	black	500
7	UL1061	28	orange	500
8	UL1061	28	black	500
9	UL1061	28	yellow	500
10	UL1061	28	green	500
11	UL1061	28	blue	500
12	UL1061	28	purple	500

---

●Model number  
**H-SN-6**

Housing : PHDR-12VS (J.S.T.)  
Pin : SPHD-002T-P0.5 (J.S.T.)  
Weight : 8g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1061	28	red	30
2	UL1061	28	black	30
3	UL1061	28	red	30
4	UL1061	28	black	30
5	UL1061	28	brown	500
6	UL1061	28	black	500
7	UL1061	28	orange	500
8	UL1061	28	black	500
9	UL1061	28	yellow	500
10	UL1061	28	green	500
11	UL1061	28	blue	500
12	UL1061	28	purple	500

\* The even number pin side of the connector is the same wiring as the odd number pin side.

October 26, 2021

Option-27



Harness to use the function of the output module is prepared in ACE series.

# ACE Series

## Mating harness

Model	Harness model #	Contents
ACE series	H-SN-14	Harness for using AUX and PR alarm of CN1.
	H-SN-16	Harness for using all function of output modules. (CN2)
	H-SN-17	Harness for using all functions except remote sensing of the output modules. (CN2)
	H-SN-18	Harness for using remote ON/OFF of output module S, T, U.(CN2)

●Model number  
**H-SN-14**

Housing : XHP-3 (J.S.T.)  
Pin : SXH-001T-P0.6 (J.S.T.)  
Weight : 10g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)
1	UL1007	22	black	500
2	UL1007	22	yellow	500
3	UL1007	22	red	500

---

●Model number  
**H-SN-16**

Housing : PHDR-10VS (J.S.T.)  
Pin : SPHD-002T-P0.5 (J.S.T.)  
Weight : 8g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)
1	UL1061	28	yellow	500
2	UL1061	28	orange	500
3	-	-	-	-
4	-	-	-	-
5	UL1061	28	blue	500
6	UL1061	28	black	500
7	UL1061	28	red	500
8	UL1061	28	red	500
9	UL1061	28	black	500
10	UL1061	28	black	500

\* The even number pin side of the connector is the same wiring as the odd number pin side.

---

●Model number  
**H-SN-17**

Housing : PHDR-10VS (J.S.T.)  
Pin : SPHD-002T-P0.5 (J.S.T.)  
Weight : 5g max

●Type

\* Pin #7 and #8 are shorted with harness and also pin #9 and #10.

●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)
1	UL1061	28	yellow	500
2	UL1061	28	orange	500
3	-	-	-	-
4	-	-	-	-
5	UL1061	28	blue	500
6	UL1061	28	black	500
7	UL1061	28	red	30
8	UL1061	28	red	30
9	UL1061	28	black	30
10	UL1061	28	black	30

\* The even number pin side of the connector is the same wiring as the odd number pin side.

---

●Model number  
**H-SN-18**

Housing : PHR-2 (J.S.T.)  
Pin : SPH-002T-P0.5S (J.S.T.)  
Weight : 4g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)
1	UL1007	26	yellow	500
2	UL1007	26	orange	500

Option-28

October 26, 2021

Harness to use the function of ADA Series is prepared.

\* Please see the our company home page or consult us about detailed information.

## ADA Series

### Mating harness

Model	Harness model #	Contents
ADA Series	H-SN-23	:Harness for using option:-W and/or -R when I/O interface is terminal block type (standard).
	H-IN-11	:Input harness when I/O interface is connector type (option:-J).
	H-OU-26	:Output harness when I/O interface is connector type (option:-J).
	H-PA-5	:Harness for parallel operation when I/O interface is connector type (option:-J).
	H-RC-2	:Harness for using option:-R when I/O interface is connector type (option:-J).

<p>●Model number <b>H-SN-23</b></p> <p>Housing : PHDR-14VS(J.S.T) Pin : SPHD-002T-P0.5(J.S.T) Weight : 6g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr><td>1</td><td>UL1061</td><td>28</td><td>red</td><td>500</td></tr> <tr><td>2</td><td>UL1061</td><td>28</td><td>black</td><td>500</td></tr> <tr><td>3</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>4</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>5</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>6</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>7</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>8</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>9</td><td>UL1061</td><td>28</td><td>orange</td><td>500</td></tr> <tr><td>10</td><td>UL1061</td><td>28</td><td>blue</td><td>500</td></tr> <tr><td>11</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>12</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>13</td><td>UL1061</td><td>28</td><td>yellow</td><td>500</td></tr> <tr><td>14</td><td>UL1061</td><td>28</td><td>black</td><td>500</td></tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1061	28	red	500	2	UL1061	28	black	500	3	-	-	-	-	4	-	-	-	-	5	-	-	-	-	6	-	-	-	-	7	-	-	-	-	8	-	-	-	-	9	UL1061	28	orange	500	10	UL1061	28	blue	500	11	-	-	-	-	12	-	-	-	-	13	UL1061	28	yellow	500	14	UL1061	28	black	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																																																																									
1	UL1061	28	red	500																																																																									
2	UL1061	28	black	500																																																																									
3	-	-	-	-																																																																									
4	-	-	-	-																																																																									
5	-	-	-	-																																																																									
6	-	-	-	-																																																																									
7	-	-	-	-																																																																									
8	-	-	-	-																																																																									
9	UL1061	28	orange	500																																																																									
10	UL1061	28	blue	500																																																																									
11	-	-	-	-																																																																									
12	-	-	-	-																																																																									
13	UL1061	28	yellow	500																																																																									
14	UL1061	28	black	500																																																																									
<p>●Model number <b>H-IN-11</b></p> <p>Housing : 1-178129-6(AMP) Pin : 1-175218-5 equivalent goods(AMP) Weight : 45g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr><td>B 1</td><td>UL1051</td><td>18</td><td>white</td><td>500</td></tr> <tr><td>A 1</td><td>UL1051</td><td>18</td><td>white</td><td>500</td></tr> <tr><td>B 2</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>A 2</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>B 3</td><td>UL1051</td><td>18</td><td>black</td><td>500</td></tr> <tr><td>A 3</td><td>UL1051</td><td>18</td><td>black</td><td>500</td></tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	B 1	UL1051	18	white	500	A 1	UL1051	18	white	500	B 2	-	-	-	-	A 2	-	-	-	-	B 3	UL1051	18	black	500	A 3	UL1051	18	black	500																																								
Pin #	Wire	AWG	Color	Length ℓ (mm)																																																																									
B 1	UL1051	18	white	500																																																																									
A 1	UL1051	18	white	500																																																																									
B 2	-	-	-	-																																																																									
A 2	-	-	-	-																																																																									
B 3	UL1051	18	black	500																																																																									
A 3	UL1051	18	black	500																																																																									
<p>●Model number <b>H-OU-26</b></p> <p>Housing : 178289-5(AMP) Pin : 1-353717-5 equivalent goods(AMP) Weight : 105g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr><td>B 1</td><td>UL1007</td><td>16</td><td>red</td><td>500</td></tr> <tr><td>A 1</td><td>UL1007</td><td>16</td><td>red</td><td>500</td></tr> <tr><td>B 2</td><td>UL1007</td><td>16</td><td>red</td><td>500</td></tr> <tr><td>A 2</td><td>UL1007</td><td>16</td><td>red</td><td>500</td></tr> <tr><td>B 3</td><td>UL1007</td><td>16</td><td>red</td><td>500</td></tr> <tr><td>A 3</td><td>UL1007</td><td>16</td><td>black</td><td>500</td></tr> <tr><td>B 4</td><td>UL1007</td><td>16</td><td>black</td><td>500</td></tr> <tr><td>A 4</td><td>UL1007</td><td>16</td><td>black</td><td>500</td></tr> <tr><td>B 5</td><td>UL1007</td><td>16</td><td>black</td><td>500</td></tr> <tr><td>A 5</td><td>UL1007</td><td>16</td><td>black</td><td>500</td></tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	B 1	UL1007	16	red	500	A 1	UL1007	16	red	500	B 2	UL1007	16	red	500	A 2	UL1007	16	red	500	B 3	UL1007	16	red	500	A 3	UL1007	16	black	500	B 4	UL1007	16	black	500	A 4	UL1007	16	black	500	B 5	UL1007	16	black	500	A 5	UL1007	16	black	500																				
Pin #	Wire	AWG	Color	Length ℓ (mm)																																																																									
B 1	UL1007	16	red	500																																																																									
A 1	UL1007	16	red	500																																																																									
B 2	UL1007	16	red	500																																																																									
A 2	UL1007	16	red	500																																																																									
B 3	UL1007	16	red	500																																																																									
A 3	UL1007	16	black	500																																																																									
B 4	UL1007	16	black	500																																																																									
A 4	UL1007	16	black	500																																																																									
B 5	UL1007	16	black	500																																																																									
A 5	UL1007	16	black	500																																																																									
<p>●Model number <b>H-PA-5</b></p> <p>Housing : 171822-2(AMP) Pin : 170204-2 equivalent goods(AMP) Weight : 4g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr><td>1</td><td>UL1007</td><td>22</td><td>white</td><td>200</td></tr> <tr><td>2</td><td>UL1007</td><td>22</td><td>black</td><td>200</td></tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1007	22	white	200	2	UL1007	22	black	200																																																												
Pin #	Wire	AWG	Color	Length ℓ (mm)																																																																									
1	UL1007	22	white	200																																																																									
2	UL1007	22	black	200																																																																									
<p>●Model number <b>H-RC-2</b></p> <p>Housing : 171822-3(AMP) Pin : 170204-2 equivalent goods(AMP) Weight : 7g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr><td>1</td><td>UL1007</td><td>22</td><td>white</td><td>500</td></tr> <tr><td>2</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>3</td><td>UL1007</td><td>22</td><td>red</td><td>500</td></tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1007	22	white	500	2	-	-	-	-	3	UL1007	22	red	500																																																							
Pin #	Wire	AWG	Color	Length ℓ (mm)																																																																									
1	UL1007	22	white	500																																																																									
2	-	-	-	-																																																																									
3	UL1007	22	red	500																																																																									

Harness to use the function is prepared in PB series.

## PB Series

### Mating harness

Model	Harness model #	Contents
PBA10F, PBA15F, PBW15F, PBA30F, PBW30F, PBA50F, PBW50F, PBA75F, PBA100F, PBA150F ★1	H-IN-3 or H-IN-27	Input harness when I/O interface is connector (Mfr: J.S.T.) type (option : -J1)
PBA10F, PBA15F, PBA30F, PBA50F	H-OU-9	Output harness when I/O interface is connector (Mfr: J.S.T.) type (option : -J1)
PBA75F, PBA100F, PBA150F ★1	H-OU-18	Output harness when I/O interface is connector (Mfr: J.S.T.) type (option : -J1)
PBW15F, PBW30F, PBW50F	H-OU-48	Output harness when I/O interface is connector (Mfr: J.S.T.) type (option : -J1)
PBA50F, PBW50F, PBA75F, PBA100F, PBA150F	H-RC-1	Harness for using option : -R
PBA100F, PBA150F ★2	H-SN-1	Harness for using option : -K
PBA10F, PBA15F, PBW15F, PBA30F, PBW30F, PBA50F, PBW50F, PBA75F, PBA100F, PBA150F	H-SN-18	Harness for using option : -V
PBA300F	H-PA-3	Harness for parallel operation
PBA600F	H-SN-20	Harness for using all functions of CN1 and CN2
PBA1000F	H-SN-21	Harness for using all functions except remote sensing of CN2
PBA1500F	H-SN-22	Harness for using all functions of CN3
PBA1500T	H-SN-24	Harness for using example remote ON/OFF circuit (C)

★1 Available for 12V, 15V, 24V, 36V and 48V output model in PBA100F / 150F.

★2 Available for 3.3V and 5V output model in PBA100F / 150F.

<p>●Model number <b>H-IN-3</b> Housing : VHR-5N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 20g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL 1015</td> <td>20</td> <td>white</td> <td>500</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL 1015</td> <td>20</td> <td>black</td> <td>500</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>UL 1015</td> <td>20</td> <td>green</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1	UL 1015	20	white	500	2					3	UL 1015	20	black	500	4					5	UL 1015	20	green	500
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1	UL 1015	20	white	500																												
2																																
3	UL 1015	20	black	500																												
4																																
5	UL 1015	20	green	500																												
<p>●Model number <b>H-IN-27</b> Housing : VHR-5N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 20g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL 1015</td> <td>20</td> <td>white</td> <td>500</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL 1015</td> <td>20</td> <td>black</td> <td>500</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>UL 1015</td> <td>20</td> <td>green/yellow</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1	UL 1015	20	white	500	2					3	UL 1015	20	black	500	4					5	UL 1015	20	green/yellow	500
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1	UL 1015	20	white	500																												
2																																
3	UL 1015	20	black	500																												
4																																
5	UL 1015	20	green/yellow	500																												
<p>●Model number <b>H-OU-9</b> Housing : VHR-4N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 40g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL 1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL 1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>3</td> <td>UL 1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> <tr> <td>4</td> <td>UL 1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1	UL 1015	18	black	500	2	UL 1015	18	black	500	3	UL 1015	18	red	500	4	UL 1015	18	red	500					
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1	UL 1015	18	black	500																												
2	UL 1015	18	black	500																												
3	UL 1015	18	red	500																												
4	UL 1015	18	red	500																												
<p>●Model number <b>H-OU-18</b> Housing : VHR-6N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 60g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1 - 3</td> <td>UL 1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>4 - 6</td> <td>UL 1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1 - 3	UL 1015	18	black	500	4 - 6	UL 1015	18	red	500															
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1 - 3	UL 1015	18	black	500																												
4 - 6	UL 1015	18	red	500																												
<p>●Model number <b>H-OU-48</b> Housing : VHR-4N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 40g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL 1015</td> <td>18</td> <td>purple</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL 1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>3</td> <td>UL 1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>4</td> <td>UL 1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1	UL 1015	18	purple	500	2	UL 1015	18	black	500	3	UL 1015	18	black	500	4	UL 1015	18	red	500					
Pin #	Wire	AWG	Color	Length $l$ (mm)																												
1	UL 1015	18	purple	500																												
2	UL 1015	18	black	500																												
3	UL 1015	18	black	500																												
4	UL 1015	18	red	500																												

<p>●Model number <b>H-RC-1</b></p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1007</td> <td>22</td> <td>orange</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1007</td> <td>22</td> <td>blue</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1007	22	orange	500	2	UL1007	22	blue	500																																								
Pin #	Wire	AWG	Color	Length ℓ (mm)																																																					
1	UL1007	22	orange	500																																																					
2	UL1007	22	blue	500																																																					
<p>●Model number <b>H-SN-1</b></p> <p>Housing : XHP-2 (J.S.T.) Pin : SXH-001T-P0.6 (J.S.T.) Weight : 7g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>UL1061</td> <td>28</td> <td>black</td> <td>500</td> </tr> <tr> <td>3</td> <td>UL1061</td> <td>28</td> <td>red</td> <td>500</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1					2	UL1061	28	black	500	3	UL1061	28	red	500	4																																		
Pin #	Wire	AWG	Color	Length ℓ (mm)																																																					
1																																																									
2	UL1061	28	black	500																																																					
3	UL1061	28	red	500																																																					
4																																																									
<p>●Model number <b>H-SN-18</b></p> <p>Housing : PHR-2 (J.S.T.) Pin : SPH-002T-P0.5S (J.S.T.) Weight : 4g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1007</td> <td>26</td> <td>yellow</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1007</td> <td>26</td> <td>orange</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1007	26	yellow	500	2	UL1007	26	orange	500																																								
Pin #	Wire	AWG	Color	Length ℓ (mm)																																																					
1	UL1007	26	yellow	500																																																					
2	UL1007	26	orange	500																																																					
<p>●Model number <b>H-PA-3</b></p> <p>Housing : PHDR-10VS(J.S.T) Pin : SPHD-002T-P0.5(J.S.T) Weight : 5g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>2</td> <td>UL1061</td> <td>28</td> <td>red</td> <td>270</td> </tr> <tr> <td>3</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>4</td> <td>UL1061</td> <td>28</td> <td>black</td> <td>270</td> </tr> <tr> <td>5</td> <td>UL1061</td> <td>28</td> <td>yellow</td> <td>270</td> </tr> <tr> <td>6</td> <td>UL1061</td> <td>28</td> <td>green</td> <td>270</td> </tr> <tr> <td>7</td> <td>UL1061</td> <td>28</td> <td>blue</td> <td>270</td> </tr> <tr> <td>8</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>9</td> <td>UL1061</td> <td>28</td> <td>orange</td> <td>270</td> </tr> <tr> <td>10</td> <td>UL1061</td> <td>28</td> <td>purple</td> <td>270</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	-	-	-	-	2	UL1061	28	red	270	3	-	-	-	-	4	UL1061	28	black	270	5	UL1061	28	yellow	270	6	UL1061	28	green	270	7	UL1061	28	blue	270	8	-	-	-	-	9	UL1061	28	orange	270	10	UL1061	28	purple	270
Pin #	Wire	AWG	Color	Length ℓ (mm)																																																					
1	-	-	-	-																																																					
2	UL1061	28	red	270																																																					
3	-	-	-	-																																																					
4	UL1061	28	black	270																																																					
5	UL1061	28	yellow	270																																																					
6	UL1061	28	green	270																																																					
7	UL1061	28	blue	270																																																					
8	-	-	-	-																																																					
9	UL1061	28	orange	270																																																					
10	UL1061	28	purple	270																																																					
<p>●Model number <b>H-SN-20</b></p> <p>Housing : PHDR-10VS(J.S.T) Pin : SPHD-002T-P0.5(J.S.T) Weight : 8g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>2</td> <td>UL1061</td> <td>28</td> <td>red</td> <td>500</td> </tr> <tr> <td>3</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>4</td> <td>UL1061</td> <td>28</td> <td>black</td> <td>500</td> </tr> <tr> <td>5</td> <td>UL1061</td> <td>28</td> <td>yellow</td> <td>500</td> </tr> <tr> <td>6</td> <td>UL1061</td> <td>28</td> <td>green</td> <td>500</td> </tr> <tr> <td>7</td> <td>UL1061</td> <td>28</td> <td>blue</td> <td>500</td> </tr> <tr> <td>8</td> <td>UL1061</td> <td>28</td> <td>black</td> <td>500</td> </tr> <tr> <td>9</td> <td>UL1061</td> <td>28</td> <td>orange</td> <td>500</td> </tr> <tr> <td>10</td> <td>UL1061</td> <td>28</td> <td>purple</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	-	-	-	-	2	UL1061	28	red	500	3	-	-	-	-	4	UL1061	28	black	500	5	UL1061	28	yellow	500	6	UL1061	28	green	500	7	UL1061	28	blue	500	8	UL1061	28	black	500	9	UL1061	28	orange	500	10	UL1061	28	purple	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																																																					
1	-	-	-	-																																																					
2	UL1061	28	red	500																																																					
3	-	-	-	-																																																					
4	UL1061	28	black	500																																																					
5	UL1061	28	yellow	500																																																					
6	UL1061	28	green	500																																																					
7	UL1061	28	blue	500																																																					
8	UL1061	28	black	500																																																					
9	UL1061	28	orange	500																																																					
10	UL1061	28	purple	500																																																					

●Model number  
**H-SN-21**

Housing : PHDR-10VS(J.S.T)  
Pin : SPHD-002T-P0.5(J.S.T)  
Weight : 6g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	UL1061	28	yellow	500
6	UL1061	28	green	500
7	UL1061	28	blue	500
8	UL1061	28	black	500
9	UL1061	28	orange	500
10	UL1061	28	purple	500

●Model number  
**H-SN-22**

Housing : PHDR-8VS(J.S.T)  
Pin : SPHD-002T-P0.5(J.S.T)  
Weight : 5g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)
1	-	-	-	-
2	-	-	-	-
3	UL1061	28	pink	500
4	UL1061	28	brown	500
5	UL1061	28	white	500
6	-	-	-	-
7	UL1061	28	yellow	500
8	UL1061	28	gray	500

●Model number  
**H-SN-24**

CN A :  
Housing : PHDR-10VS(J.S.T)  
Pin : SPHD-002T-P0.5(J.S.T)

CN B :  
Housing : PHDR-08VS(J.S.T)  
Pin : SPHD-002T-P0.5(J.S.T)

Weight : 2g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)	
CN A	1	UL1061	28	red	30
	2	UL1061	28	red	30
	3	UL1061	28	black	30
	4	UL1061	28	black	30
	5	-	-	-	-
	6	-	-	-	-
	7	-	-	-	-
	8	-	-	-	-
	9	UL1061	28	black	70
	10	UL1061	28	black	70
CN B	1	-	-	-	
	2	-	-	-	
	3	-	-	-	
	4	UL1061	28	black	70
	5	UL1061	28	black	70
	6	-	-	-	-
	7	-	-	-	-
	8	-	-	-	-

★ Pin #1 and #2, Pin #3 and #4 in CN A are connected by harness.  
★ Pin #9 in CN A and Pin #4 in CN B are connected by harness.  
★ Pin #10 in CN A and Pin #5 in CN B are connected by harness.

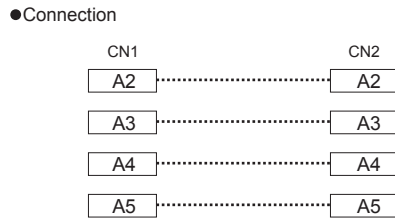
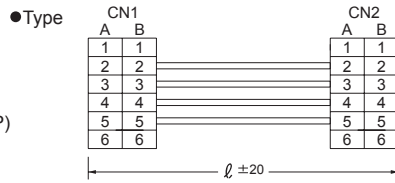
## Mating harness

Model	Harness model #	Contents	Connector	
			SCHA	SCDA
SC Series	H-SN-27	Harness for using remote signal ON/OFF function	CN1~CN4	CN1,CN2
	H-SN-28	Harness for using MAS,SLV,CTB,PCONT,COM terminal	CN5,CN6	CN3,CN4
	H-SN-29	Harness for using system ON/OFF function	CN7,CN8	CN5,CN6
	H-SN-30	Harness for using alarm / output voltage monitor terminal	CN9,CN10	CN7,CN8
	H-OU-35	Output harness	Output connector 1~20	Output connector 1~14
	H-PA-7	Harness for using parallel connection (SLAVE unit-SLAVE unit)	CN5,CN6	CN3,CN4
	H-PA-8	Harness for using parallel connection (MASTER unit-SLAVE unit)	CN5,CN6	CN3,CN4

<p>●Model number <b>H-SN-27</b></p> <p>Housing : 1-1318119-4 (Tyco Electronics AMP) Pin : 1318105-1 or 1318107-1 (Tyco Electronics AMP) Weight : 100g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr><td>A 1</td><td>UL1007</td><td>22</td><td>brown</td><td>2000</td></tr> <tr><td>B 1</td><td>UL1007</td><td>22</td><td>green</td><td>2000</td></tr> <tr><td>A 2</td><td>UL1007</td><td>22</td><td>red</td><td>2000</td></tr> <tr><td>B 2</td><td>UL1007</td><td>22</td><td>blue</td><td>2000</td></tr> <tr><td>A 3</td><td>UL1007</td><td>22</td><td>orange</td><td>2000</td></tr> <tr><td>B 3</td><td>UL1007</td><td>22</td><td>purple</td><td>2000</td></tr> <tr><td>A 4</td><td>UL1007</td><td>22</td><td>yellow</td><td>2000</td></tr> <tr><td>B 4</td><td>UL1007</td><td>22</td><td>gray</td><td>2000</td></tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	A 1	UL1007	22	brown	2000	B 1	UL1007	22	green	2000	A 2	UL1007	22	red	2000	B 2	UL1007	22	blue	2000	A 3	UL1007	22	orange	2000	B 3	UL1007	22	purple	2000	A 4	UL1007	22	yellow	2000	B 4	UL1007	22	gray	2000																				
Pin #	Wire	AWG	Color	Length $l$ (mm)																																																															
A 1	UL1007	22	brown	2000																																																															
B 1	UL1007	22	green	2000																																																															
A 2	UL1007	22	red	2000																																																															
B 2	UL1007	22	blue	2000																																																															
A 3	UL1007	22	orange	2000																																																															
B 3	UL1007	22	purple	2000																																																															
A 4	UL1007	22	yellow	2000																																																															
B 4	UL1007	22	gray	2000																																																															
<p>●Model number <b>H-SN-28</b></p> <p>Housing : 1-1318118-6 (Tyco Electronics AMP) Pin : 1318105-1 or 1318107-1 (Tyco Electronics AMP) Weight : 65g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr><td>A 1</td><td>UL1007</td><td>22</td><td>brown</td><td>2000</td></tr> <tr><td>B 1</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>A 2</td><td>UL1007</td><td>22</td><td>red</td><td>2000</td></tr> <tr><td>B 2</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>A 3</td><td>UL1007</td><td>22</td><td>orange</td><td>2000</td></tr> <tr><td>B 3</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>A 4</td><td>UL1007</td><td>22</td><td>yellow</td><td>2000</td></tr> <tr><td>B 4</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>A 5</td><td>UL1007</td><td>22</td><td>green</td><td>2000</td></tr> <tr><td>B 5</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>A 6</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>B 6</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	A 1	UL1007	22	brown	2000	B 1	-	-	-	-	A 2	UL1007	22	red	2000	B 2	-	-	-	-	A 3	UL1007	22	orange	2000	B 3	-	-	-	-	A 4	UL1007	22	yellow	2000	B 4	-	-	-	-	A 5	UL1007	22	green	2000	B 5	-	-	-	-	A 6	-	-	-	-	B 6	-	-	-	-
Pin #	Wire	AWG	Color	Length $l$ (mm)																																																															
A 1	UL1007	22	brown	2000																																																															
B 1	-	-	-	-																																																															
A 2	UL1007	22	red	2000																																																															
B 2	-	-	-	-																																																															
A 3	UL1007	22	orange	2000																																																															
B 3	-	-	-	-																																																															
A 4	UL1007	22	yellow	2000																																																															
B 4	-	-	-	-																																																															
A 5	UL1007	22	green	2000																																																															
B 5	-	-	-	-																																																															
A 6	-	-	-	-																																																															
B 6	-	-	-	-																																																															
<p>●Model number <b>H-SN-29</b></p> <p>Housing : 1-1318119-3 (Tyco Electronics AMP) Pin : 1318105-1 or 1318107-1 (Tyco Electronics AMP) Weight : 25g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr><td>A 1</td><td>UL1007</td><td>22</td><td>brown</td><td>2000</td></tr> <tr><td>B 1</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>A 2</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>B 2</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>A 3</td><td>UL1007</td><td>22</td><td>orange</td><td>2000</td></tr> <tr><td>B 3</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	A 1	UL1007	22	brown	2000	B 1	-	-	-	-	A 2	-	-	-	-	B 2	-	-	-	-	A 3	UL1007	22	orange	2000	B 3	-	-	-	-																														
Pin #	Wire	AWG	Color	Length $l$ (mm)																																																															
A 1	UL1007	22	brown	2000																																																															
B 1	-	-	-	-																																																															
A 2	-	-	-	-																																																															
B 2	-	-	-	-																																																															
A 3	UL1007	22	orange	2000																																																															
B 3	-	-	-	-																																																															
<p>●Model number <b>H-SN-30</b></p> <p>Housing : 2-1318119-3 (Tyco Electronics AMP) Pin : 1318105-1 or 1318107-1 (Tyco Electronics AMP) Weight : 50g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr><td>A 1</td><td>UL1007</td><td>22</td><td>brown</td><td>2000</td></tr> <tr><td>B 1</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>A 2</td><td>UL1007</td><td>22</td><td>red</td><td>2000</td></tr> <tr><td>B 2</td><td>UL1007</td><td>22</td><td>green</td><td>2000</td></tr> <tr><td>A 3</td><td>UL1007</td><td>22</td><td>orange</td><td>2000</td></tr> <tr><td>B 3</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	A 1	UL1007	22	brown	2000	B 1	-	-	-	-	A 2	UL1007	22	red	2000	B 2	UL1007	22	green	2000	A 3	UL1007	22	orange	2000	B 3	-	-	-	-																														
Pin #	Wire	AWG	Color	Length $l$ (mm)																																																															
A 1	UL1007	22	brown	2000																																																															
B 1	-	-	-	-																																																															
A 2	UL1007	22	red	2000																																																															
B 2	UL1007	22	green	2000																																																															
A 3	UL1007	22	orange	2000																																																															
B 3	-	-	-	-																																																															
<p>●Model number <b>H-OU-35</b></p> <p>Housing : 1-179958-2 (Tyco Electronics AMP) Pin : 179956-2 or 316041-2 (Tyco Electronics AMP) Weight : 6g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length <math>l</math> (mm)</th> </tr> </thead> <tbody> <tr><td>1</td><td>UL1015</td><td>10</td><td>red</td><td>2000</td></tr> <tr><td>2</td><td>UL1015</td><td>10</td><td>black</td><td>2000</td></tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length $l$ (mm)	1	UL1015	10	red	2000	2	UL1015	10	black	2000																																																		
Pin #	Wire	AWG	Color	Length $l$ (mm)																																																															
1	UL1015	10	red	2000																																																															
2	UL1015	10	black	2000																																																															

●Model number  
**H-PA-7**

Housing : 1-1318118-6 (Tyco Electronics AMP)  
Pin : 1318105-1 or 1318107-1  
(Tyco Electronics AMP)  
Weight : 20g max

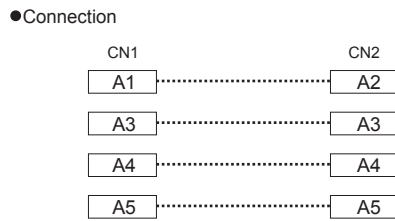
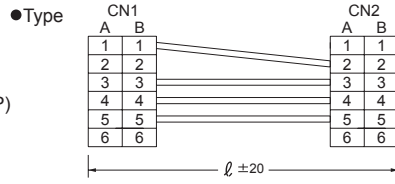


●Wire

	Pin #	Wire	AWG	Color	Length $l$ (mm)
CN1	A 1	-	-	-	-
	B 1	-	-	-	-
	A 2	UL1007	22	red	400
	B 2	-	-	-	-
	A 3	UL1007	22	orange	400
	B 3	-	-	-	-
	A 4	UL1007	22	yellow	400
	B 4	-	-	-	-
	A 5	UL1007	22	green	400
	B 5	-	-	-	-
	A 6	-	-	-	-
	B 6	-	-	-	-
CN2	A 1	-	-	-	-
	B 1	-	-	-	-
	A 2	UL1007	22	red	400
	B 2	-	-	-	-
	A 3	UL1007	22	orange	400
	B 3	-	-	-	-
	A 4	UL1007	22	yellow	400
	B 4	-	-	-	-
	A 5	UL1007	22	green	400
	B 5	-	-	-	-
	A 6	-	-	-	-
	B 6	-	-	-	-

●Model number  
**H-PA-8**

Housing : 1-1318118-6 (Tyco Electronics AMP)  
Pin : 1318105-1 or 1318107-1  
(Tyco Electronics AMP)  
Weight : 20g max



●Wire

	Pin #	Wire	AWG	Color	Length $l$ (mm)
CN1	A 1	UL1007	22	brown	400
	B 1	-	-	-	-
	A 2	-	-	-	-
	B 2	-	-	-	-
	A 3	UL1007	22	orange	400
	B 3	-	-	-	-
	A 4	UL1007	22	yellow	400
	B 4	-	-	-	-
	A 5	UL1007	22	green	400
	B 5	-	-	-	-
	A 6	-	-	-	-
	B 6	-	-	-	-
CN2	A 1	-	-	-	-
	B 1	-	-	-	-
	A 2	UL1007	22	brown	400
	B 2	-	-	-	-
	A 3	UL1007	22	orange	400
	B 3	-	-	-	-
	A 4	UL1007	22	yellow	400
	B 4	-	-	-	-
	A 5	UL1007	22	green	400
	B 5	-	-	-	-
	A 6	-	-	-	-
	B 6	-	-	-	-

# PMA Series

## Mating harness

Model	Harness model #	Contents
PMA15F, PMA30F, PMA60F, PMA100F	H-IN -15	Input harness when I/O interface is connector (Mfr:Tyco Electronics AMP) type
PMA15F, PMA30F	H-OU-28	Output harness when I/O interface is connector (Mfr:Tyco Electronics AMP) type
PMA60F	H-OU-29	Output harness when I/O interface is connector (Mfr:Tyco Electronics AMP) type
PMA100F	H-OU-30	Output harness when I/O interface is connector (Mfr:Tyco Electronics AMP) type
PMA15F, PMA30F, PMA60F, PMA100F	H-IN - 3	Input harness when I/O interface is connector (Mfr:J.S.T ) type (option:-J)
PMA15F, PMA30F	H-OU- 9	Output harness when I/O interface is connector (Mfr:J.S.T ) type (option:-J)
PMA60F	H-OU-18	Output harness when I/O interface is connector (Mfr:J.S.T ) type (option:-J)
PMA100F	H-OU-10	Output harness when I/O interface is connector (Mfr:J.S.T ) type (option:-J)
PMA60F, PMA100F	H-RC- 1	Harness for using option : -R

<p>●Model number</p> <h3>H-IN-3</h3> <p>Housing : VHR-5N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 20g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>20</td> <td>white</td> <td>500</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>20</td> <td>black</td> <td>500</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>UL1015</td> <td>20</td> <td>green</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1015	20	white	500	2					3	UL1015	20	black	500	4					5	UL1015	20	green	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																												
1	UL1015	20	white	500																												
2																																
3	UL1015	20	black	500																												
4																																
5	UL1015	20	green	500																												
<p>●Model number</p> <h3>H-IN-15</h3> <p>Housing : 1-1123722-5 (Tyco Electronics AMP) Pin : 1123721-1 or 1318912-1 (Tyco Electronics AMP) Weight : 20g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>20</td> <td>white</td> <td>500</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>20</td> <td>black</td> <td>500</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>UL1015</td> <td>20</td> <td>green</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1015	20	white	500	2					3	UL1015	20	black	500	4					5	UL1015	20	green	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																												
1	UL1015	20	white	500																												
2																																
3	UL1015	20	black	500																												
4																																
5	UL1015	20	green	500																												
<p>●Model number</p> <h3>H-OU-9</h3> <p>Housing : VHR-4N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 40g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> <tr> <td>4</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1015	18	black	500	2	UL1015	18	black	500	3	UL1015	18	red	500	4	UL1015	18	red	500					
Pin #	Wire	AWG	Color	Length ℓ (mm)																												
1	UL1015	18	black	500																												
2	UL1015	18	black	500																												
3	UL1015	18	red	500																												
4	UL1015	18	red	500																												
<p>●Model number</p> <h3>H-OU-10</h3> <p>Housing : VHR-8N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 80g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1 - 4</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>5 - 8</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1 - 4	UL1015	18	black	500	5 - 8	UL1015	18	red	500															
Pin #	Wire	AWG	Color	Length ℓ (mm)																												
1 - 4	UL1015	18	black	500																												
5 - 8	UL1015	18	red	500																												
<p>●Model number</p> <h3>H-OU-18</h3> <p>Housing : VHR-6N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 60g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1 - 3</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>4 - 6</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1 - 3	UL1015	18	black	500	4 - 6	UL1015	18	red	500															
Pin #	Wire	AWG	Color	Length ℓ (mm)																												
1 - 3	UL1015	18	black	500																												
4 - 6	UL1015	18	red	500																												
<p>●Model number</p> <h3>H-OU-28</h3> <p>Housing : 1-1123722-4 (Tyco Electronics AMP) Pin : 1123721-1 or 1318912-1 (Tyco Electronics AMP) Weight : 40g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> <tr> <td>4</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1015	18	black	500	2	UL1015	18	black	500	3	UL1015	18	red	500	4	UL1015	18	red	500					
Pin #	Wire	AWG	Color	Length ℓ (mm)																												
1	UL1015	18	black	500																												
2	UL1015	18	black	500																												
3	UL1015	18	red	500																												
4	UL1015	18	red	500																												
<p>●Model number</p> <h3>H-OU-29</h3> <p>Housing : 1-1123722-6 (Tyco Electronics AMP) Pin : 1123721-1 or 1318912-1 (Tyco Electronics AMP) Weight : 60g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1 - 3</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>4 - 6</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1 - 3	UL1015	18	black	500	4 - 6	UL1015	18	red	500															
Pin #	Wire	AWG	Color	Length ℓ (mm)																												
1 - 3	UL1015	18	black	500																												
4 - 6	UL1015	18	red	500																												

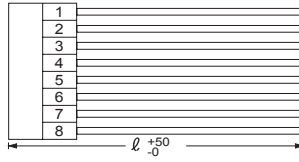


●Model number

**H-OU-30**

Housing : 1-1123722-8 (Tyco Electronics AMP)  
 Pin : 1123721-1 or 1318912-1 (Tyco Electronics AMP)  
 Weight : 75g max

●Type



●Wire

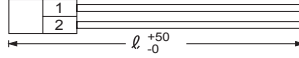
Pin #	Wire	AWG	Color	Length $l$ (mm)
1 - 4	UL1015	18	black	500
5 - 8	UL1015	18	red	500

●Model number

**H-RC-1**

Housing : XHP-2 (J.S.T.)  
 Pin : SXH-001T-P0.6 (J.S.T.)  
 Weight : 7g max

●Type



●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)
1	UL1007	22	orange	500
2	UL1007	22	blue	500

Harness to use the function is prepared in PLA series, PJA series.

The latest information is in our website

## Mating harness

Model	Harness model #	Contents
PLA15F, PLA30F, PLA50F, PJA100F, PJA150F	H-IN-22	Input harness when I/O interface is connector type (option : -J)
PJA100F, PJA150F	H-OU-37	Output harness when I/O interface is connector type (option : -J)
PLA15F, PLA30F, PLA50F	H-OU-38	Output harness when I/O interface is connector type (option : -J)
PJA100F, PJA150F	H-IN-26	Input harness when I/O interface is connector type (option : -J1)
PJA100F, PJA150F	H-OU-44	Output harness when I/O interface is connector type (option : -J1)
PJA100F, PJA150F	H-RC-1	Harness for using option : -R
PJA300F	H-RC-6	Harness for using option : -R
PJA600F, PJA1000F, PJA1500F	H-PA-9	Harness for parallel operation (option: -W)
	H-SN-32	Harness for using all functions of option -W and -R
	H-SN-33	Harness for using all functions except remote sensing of option -W and -R
	H-RC-5	Harness for using a function of option -R
PJA300F, PJA600F, PJA1000F, PJA1500F	H-SN-18	Harness for using option : -V

\* These harnesses are used for product which includes option.

<p>●Model number <b>H-IN-22</b></p> <p>Housing : 1-1123722-5 (Tyco Electronics AMP) Pin : 1123721-1 or 1318912-1 (Tyco Electronics AMP) Weight : 30g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>green</td> <td>500</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>18</td> <td>white</td> <td>500</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1015	18	green	500	2					3	UL1015	18	white	500	4					5	UL1015	18	black	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																												
1	UL1015	18	green	500																												
2																																
3	UL1015	18	white	500																												
4																																
5	UL1015	18	black	500																												
<p>●Model number <b>H-OU-37</b></p> <p>Housing : 1-1123722-6 (Tyco Electronics AMP) Pin : 1123721-1 or 1318912-1 (Tyco Electronics AMP) Weight : 60g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1 - 3</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> <tr> <td>4 - 6</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1 - 3	UL1015	18	red	500	4 - 6	UL1015	18	black	500															
Pin #	Wire	AWG	Color	Length ℓ (mm)																												
1 - 3	UL1015	18	red	500																												
4 - 6	UL1015	18	black	500																												
<p>●Model number <b>H-OU-38</b></p> <p>Housing : 1-1123722-4 (Tyco Electronics AMP) Pin : 1123721-1 or 1318912-1 (Tyco Electronics AMP) Weight : 40g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1, 2</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> <tr> <td>3, 4</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1, 2	UL1015	18	red	500	3, 4	UL1015	18	black	500															
Pin #	Wire	AWG	Color	Length ℓ (mm)																												
1, 2	UL1015	18	red	500																												
3, 4	UL1015	18	black	500																												
<p>●Model number <b>H-IN-26</b></p> <p>Housing : VHR-5N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 30g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>green</td> <td>500</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>18</td> <td>white</td> <td>500</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1015	18	green	500	2					3	UL1015	18	white	500	4					5	UL1015	18	black	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																												
1	UL1015	18	green	500																												
2																																
3	UL1015	18	white	500																												
4																																
5	UL1015	18	black	500																												
<p>●Model number <b>H-OU-44</b></p> <p>Housing:VHR-6N(J.S.T.) Pin:SVH-21T-P1.1(J.S.T.) Weight :60g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1 - 3</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> <tr> <td>4 - 6</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1 - 3	UL1015	18	red	500	4 - 6	UL1015	18	black	500															
Pin #	Wire	AWG	Color	Length ℓ (mm)																												
1 - 3	UL1015	18	red	500																												
4 - 6	UL1015	18	black	500																												

●Model number  
**H-RC-1**

Housing : XHP-2 (J.S.T.)  
Pin : SXH-001T-P0.6 (J.S.T.)  
Weight : 7g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)
1	UL1007	22	orange	500
2	UL1007	22	blue	500

●Model number  
**H-RC-6**

Housing : XAP-02V-1 (J.S.T.)  
Pin : SXA-001T-P0.6(J.S.T.)  
Weight : 7g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)
1	UL1007	22	orange	500
2	UL1007	22	blue	500

●Model number  
**H-PA-9**

Housing : PHDR-10VS(J.S.T.)  
Pin : SPHD-002T-P0.5(J.S.T.)  
Weight : 4g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)
1	-	-	-	-
2	UL1061	28	red	270
3	UL1061	28	orange	270
4	UL1061	28	purple	270
5	-	-	-	-
6	-	-	-	-
7	UL1061	28	green	270
8	-	-	-	-
9	-	-	-	-
10	UL1061	28	black	270

●Model number  
**H-SN-32**

Housing : PHDR-10VS(J.S.T.)  
Pin : SPHD-002T-P0.5(J.S.T.)  
Weight : 7g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)
1	-	-	-	-
2	UL1061	28	red	500
3	UL1061	28	orange	500
4	UL1061	28	purple	500
5	UL1061	28	yellow	500
6	UL1061	28	blue	500
7	UL1061	28	green	500
8	-	-	-	-
9	-	-	-	-
10	UL1061	28	black	500

●Model number  
**H-SN-33**

Housing : PHDR-10VS(J.S.T.)  
Pin : SPHD-002T-P0.5(J.S.T.)  
Weight : 6g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)
1	-	-	-	-
2	-	-	-	-
3	UL1061	28	orange	500
4	UL1061	28	purple	500
5	UL1061	28	yellow	500
6	UL1061	28	blue	500
7	UL1061	28	green	500
8	-	-	-	-
9	-	-	-	-
10	UL1061	28	black	500

●Model number  
**H-RC-5**

Housing : PHDR-10VS(J.S.T.)  
Pin : SPHD-002T-P0.5(J.S.T.)  
Weight : 3g max

●Type

●Wire

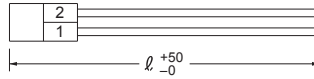
Pin #	Wire	AWG	Color	Length $l$ (mm)
1	-	-	-	-
2	-	-	-	-
3	UL1061	28	orange	500
4	UL1061	28	purple	500
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-

●Model number

**H-SN-18**

Housing : PHR-2(J.S.T.)  
 Pin : SPH-002T-P0.5S(J.S.T.)  
 Weight : 4g max

●Type



●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1007	26	yellow	500
2	UL1007	26	orange	500

Harness to use the function is prepared in GHA & GMA series.

## GHA Series GMA Series

### Mating harness

Standard type (GHA300F, GHA500F : Molex connector, GMA series : Tyco connector)

Model	Harness model #	Contents
GHA300F, GHA500F	H-IN-17	Input harness
	H-SN-34	Harness for using all functions.
	H-SN-35	Harness for using AUX (5V) remote control and PG terminal.
	H-SN-56	Harness for using all functions. (J2)
	H-SN-57	Harness for using AUX (5V) remote control and PG terminal. (J2)
GMA300F	H-IN-24	Input harness
	H-SN-18	Harness for using AUX (12V).
	H-SN-38	Harness for using all functions.
	H-SN-79	Harness for using all functions. (AWG24 for 1A)

-J1 and -J3 type (J.S.T. connector)

Model	Harness model #	Contents
GHA300F, GHA500F	H-IN-18	Input harness
	H-SN-38	Harness for using all functions.
	H-SN-39	Harness for using AUX (5V) remote control and PG terminal.
	H-SN-79	Harness for using all functions. (AWG24 for 1A)
GHA700F	H-IN-26	Input harness
	H-SN-38	Harness for using all functions.
	H-SN-39	Harness for using AUX (5V) remote control and PG terminal.
	H-SN-79	Harness for using all functions. (AWG24 for 1A)
GMA300F	H-IN-18	Input harness
	H-SN-18	Harness for using AUX (12V).
	H-SN-38	Harness for using all functions.
	H-SN-79	Harness for using all functions. (AWG24 for 1A)

<p>●Model number <b>H-IN-17</b></p> <p>Housing : 09-50-8031 (Molex) Pin (1-3) : 08-50-0105 (Molex)               : 08-65-0114 (Molex) (4) : 170603-2 (Tyco Electronics) Weight : 25g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL3239</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL3239</td> <td>18</td> <td>white</td> <td>500</td> </tr> <tr> <td>4</td> <td>UL3239</td> <td>18</td> <td>green</td> <td>500</td> </tr> </tbody> </table> <p>*The color becomes the light hue.</p>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL3239	18	black	500	2					3	UL3239	18	white	500	4	UL3239	18	green	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																							
1	UL3239	18	black	500																							
2																											
3	UL3239	18	white	500																							
4	UL3239	18	green	500																							
<p>●Model number <b>H-IN-18</b></p> <p>Housing : VHR-3N (J.S.T.) Pin (1-3) : SVH-21T-P1.1 (J.S.T.) (4) : 170603-2 (Tyco Electronics) Weight : 35g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>18</td> <td>white</td> <td>500</td> </tr> <tr> <td>4</td> <td>UL1015</td> <td>18</td> <td>green</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1015	18	black	500	2					3	UL1015	18	white	500	4	UL1015	18	green	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																							
1	UL1015	18	black	500																							
2																											
3	UL1015	18	white	500																							
4	UL1015	18	green	500																							
<p>●Model number <b>H-IN-24</b></p> <p>Housing : 1-1123722-3 (Tyco Electronics) Pin (1-3) : 1123721-1 (Tyco Electronics) (4) : 170603-2 (Tyco Electronics) Weight : 35g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>18</td> <td>white</td> <td>500</td> </tr> <tr> <td>4</td> <td>UL1015</td> <td>18</td> <td>green</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1015	18	black	500	2					3	UL1015	18	white	500	4	UL1015	18	green	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																							
1	UL1015	18	black	500																							
2																											
3	UL1015	18	white	500																							
4	UL1015	18	green	500																							

<p>●Model number <b>H-IN-26</b></p> <p>Housing : VHR-5N (J.S.T.) Pin : SVH-21T-P1.1(J.S.T.) Weight : 30g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>green</td> <td>500</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>18</td> <td>white</td> <td>500</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1015	18	green	500	2					3	UL1015	18	white	500	4					5	UL1015	18	black	500															
Pin #	Wire	AWG	Color	Length ℓ (mm)																																											
1	UL1015	18	green	500																																											
2																																															
3	UL1015	18	white	500																																											
4																																															
5	UL1015	18	black	500																																											
<p>●Model number <b>H-SN-34</b></p> <p>Housing : 51110-0851 (Molex) Pin : 50394-8051 (Molex) Weight : 8g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1061</td> <td>28</td> <td>red</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1061</td> <td>28</td> <td>black</td> <td>500</td> </tr> <tr> <td>3</td> <td>UL1061</td> <td>28</td> <td>blue</td> <td>500</td> </tr> <tr> <td>4</td> <td>UL1061</td> <td>28</td> <td>brown</td> <td>500</td> </tr> <tr> <td>5</td> <td>UL1061</td> <td>28</td> <td>yellow</td> <td>500</td> </tr> <tr> <td>6</td> <td>UL1061</td> <td>28</td> <td>gray</td> <td>500</td> </tr> <tr> <td>7</td> <td>UL1061</td> <td>28</td> <td>orange</td> <td>500</td> </tr> <tr> <td>8</td> <td>UL1061</td> <td>28</td> <td>purple</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1061	28	red	500	2	UL1061	28	black	500	3	UL1061	28	blue	500	4	UL1061	28	brown	500	5	UL1061	28	yellow	500	6	UL1061	28	gray	500	7	UL1061	28	orange	500	8	UL1061	28	purple	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																																											
1	UL1061	28	red	500																																											
2	UL1061	28	black	500																																											
3	UL1061	28	blue	500																																											
4	UL1061	28	brown	500																																											
5	UL1061	28	yellow	500																																											
6	UL1061	28	gray	500																																											
7	UL1061	28	orange	500																																											
8	UL1061	28	purple	500																																											
<p>●Model number <b>H-SN-56</b></p> <p>Housing : 51110-0860 (Molex) Pin : 50394-8051 (Molex) Weight : 8g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1061</td> <td>28</td> <td>red</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1061</td> <td>28</td> <td>black</td> <td>500</td> </tr> <tr> <td>3</td> <td>UL1061</td> <td>28</td> <td>blue</td> <td>500</td> </tr> <tr> <td>4</td> <td>UL1061</td> <td>28</td> <td>brown</td> <td>500</td> </tr> <tr> <td>5</td> <td>UL1061</td> <td>28</td> <td>yellow</td> <td>500</td> </tr> <tr> <td>6</td> <td>UL1061</td> <td>28</td> <td>gray</td> <td>500</td> </tr> <tr> <td>7</td> <td>UL1061</td> <td>28</td> <td>orange</td> <td>500</td> </tr> <tr> <td>8</td> <td>UL1061</td> <td>28</td> <td>purple</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1061	28	red	500	2	UL1061	28	black	500	3	UL1061	28	blue	500	4	UL1061	28	brown	500	5	UL1061	28	yellow	500	6	UL1061	28	gray	500	7	UL1061	28	orange	500	8	UL1061	28	purple	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																																											
1	UL1061	28	red	500																																											
2	UL1061	28	black	500																																											
3	UL1061	28	blue	500																																											
4	UL1061	28	brown	500																																											
5	UL1061	28	yellow	500																																											
6	UL1061	28	gray	500																																											
7	UL1061	28	orange	500																																											
8	UL1061	28	purple	500																																											
<p>●Model number <b>H-SN-35</b></p> <p>Housing : 51110-0851 (Molex) Pin : 50394-8051 (Molex) Weight : 6g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL1061</td> <td>28</td> <td>blue</td> <td>500</td> </tr> <tr> <td>4</td> <td>UL1061</td> <td>28</td> <td>brown</td> <td>500</td> </tr> <tr> <td>5</td> <td>UL1061</td> <td>28</td> <td>yellow</td> <td>500</td> </tr> <tr> <td>6</td> <td>UL1061</td> <td>28</td> <td>gray</td> <td>500</td> </tr> <tr> <td>7</td> <td>UL1061</td> <td>28</td> <td>orange</td> <td>500</td> </tr> <tr> <td>8</td> <td>UL1061</td> <td>28</td> <td>purple</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1					2					3	UL1061	28	blue	500	4	UL1061	28	brown	500	5	UL1061	28	yellow	500	6	UL1061	28	gray	500	7	UL1061	28	orange	500	8	UL1061	28	purple	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																																											
1																																															
2																																															
3	UL1061	28	blue	500																																											
4	UL1061	28	brown	500																																											
5	UL1061	28	yellow	500																																											
6	UL1061	28	gray	500																																											
7	UL1061	28	orange	500																																											
8	UL1061	28	purple	500																																											
<p>●Model number <b>H-SN-57</b></p> <p>Housing : 51110-0860 (Molex) Pin : 50394-8051 (Molex) Weight : 6g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL1061</td> <td>28</td> <td>blue</td> <td>500</td> </tr> <tr> <td>4</td> <td>UL1061</td> <td>28</td> <td>brown</td> <td>500</td> </tr> <tr> <td>5</td> <td>UL1061</td> <td>28</td> <td>yellow</td> <td>500</td> </tr> <tr> <td>6</td> <td>UL1061</td> <td>28</td> <td>gray</td> <td>500</td> </tr> <tr> <td>7</td> <td>UL1061</td> <td>28</td> <td>orange</td> <td>500</td> </tr> <tr> <td>8</td> <td>UL1061</td> <td>28</td> <td>purple</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1					2					3	UL1061	28	blue	500	4	UL1061	28	brown	500	5	UL1061	28	yellow	500	6	UL1061	28	gray	500	7	UL1061	28	orange	500	8	UL1061	28	purple	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																																											
1																																															
2																																															
3	UL1061	28	blue	500																																											
4	UL1061	28	brown	500																																											
5	UL1061	28	yellow	500																																											
6	UL1061	28	gray	500																																											
7	UL1061	28	orange	500																																											
8	UL1061	28	purple	500																																											
<p>●Model number <b>H-SN-38</b></p> <p>Housing : PHDR-08VS (J.S.T.) Pin : SPHD-002T-P0.5 (J.S.T.) Weight : 8g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1061</td> <td>28</td> <td>red</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1061</td> <td>28</td> <td>black</td> <td>500</td> </tr> <tr> <td>3</td> <td>UL1061</td> <td>28</td> <td>blue</td> <td>500</td> </tr> <tr> <td>4</td> <td>UL1061</td> <td>28</td> <td>brown</td> <td>500</td> </tr> <tr> <td>5</td> <td>UL1061</td> <td>28</td> <td>yellow</td> <td>500</td> </tr> <tr> <td>6</td> <td>UL1061</td> <td>28</td> <td>gray</td> <td>500</td> </tr> <tr> <td>7</td> <td>UL1061</td> <td>28</td> <td>orange</td> <td>500</td> </tr> <tr> <td>8</td> <td>UL1061</td> <td>28</td> <td>purple</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1061	28	red	500	2	UL1061	28	black	500	3	UL1061	28	blue	500	4	UL1061	28	brown	500	5	UL1061	28	yellow	500	6	UL1061	28	gray	500	7	UL1061	28	orange	500	8	UL1061	28	purple	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																																											
1	UL1061	28	red	500																																											
2	UL1061	28	black	500																																											
3	UL1061	28	blue	500																																											
4	UL1061	28	brown	500																																											
5	UL1061	28	yellow	500																																											
6	UL1061	28	gray	500																																											
7	UL1061	28	orange	500																																											
8	UL1061	28	purple	500																																											

<p>●Model number <b>H-SN-39</b></p> <p>Housing : PHDR-08VS (J.S.T.) Pin : SPHD-002T-P0.5 (J.S.T.) Weight : 6g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td>UL1061</td><td>28</td><td>blue</td><td>500</td></tr> <tr><td>4</td><td>UL1061</td><td>28</td><td>brown</td><td>500</td></tr> <tr><td>5</td><td>UL1061</td><td>28</td><td>yellow</td><td>500</td></tr> <tr><td>6</td><td>UL1061</td><td>28</td><td>gray</td><td>500</td></tr> <tr><td>7</td><td>UL1061</td><td>28</td><td>orange</td><td>500</td></tr> <tr><td>8</td><td>UL1061</td><td>28</td><td>purple</td><td>500</td></tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1					2					3	UL1061	28	blue	500	4	UL1061	28	brown	500	5	UL1061	28	yellow	500	6	UL1061	28	gray	500	7	UL1061	28	orange	500	8	UL1061	28	purple	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																																											
1																																															
2																																															
3	UL1061	28	blue	500																																											
4	UL1061	28	brown	500																																											
5	UL1061	28	yellow	500																																											
6	UL1061	28	gray	500																																											
7	UL1061	28	orange	500																																											
8	UL1061	28	purple	500																																											
<p>●Model number <b>H-SN-18</b></p> <p>Housing : PHR-2(J.S.T.) Pin : SPH-002T-P0.5S(J.S.T.) Weight : 4g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr><td>1</td><td>UL1007</td><td>26</td><td>yellow</td><td>500</td></tr> <tr><td>2</td><td>UL1007</td><td>26</td><td>orange</td><td>500</td></tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1007	26	yellow	500	2	UL1007	26	orange	500																														
Pin #	Wire	AWG	Color	Length ℓ (mm)																																											
1	UL1007	26	yellow	500																																											
2	UL1007	26	orange	500																																											
<p>●Model number <b>H-SN-79</b></p> <p>Housing : PHDR-08VS(J.S.T.) Pin : SPHD-002T-P0.5(J.S.T.) Weight : 20g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr><td>1</td><td>UL1007</td><td>24</td><td>red</td><td>500</td></tr> <tr><td>2</td><td>UL1007</td><td>24</td><td>black</td><td>500</td></tr> <tr><td>3</td><td>UL1007</td><td>24</td><td>blue</td><td>500</td></tr> <tr><td>4</td><td>UL1007</td><td>24</td><td>brown</td><td>500</td></tr> <tr><td>5</td><td>UL1007</td><td>24</td><td>yellow</td><td>500</td></tr> <tr><td>6</td><td>UL1007</td><td>24</td><td>gray</td><td>500</td></tr> <tr><td>7</td><td>UL1007</td><td>24</td><td>orange</td><td>500</td></tr> <tr><td>8</td><td>UL1007</td><td>24</td><td>purple</td><td>500</td></tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1007	24	red	500	2	UL1007	24	black	500	3	UL1007	24	blue	500	4	UL1007	24	brown	500	5	UL1007	24	yellow	500	6	UL1007	24	gray	500	7	UL1007	24	orange	500	8	UL1007	24	purple	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																																											
1	UL1007	24	red	500																																											
2	UL1007	24	black	500																																											
3	UL1007	24	blue	500																																											
4	UL1007	24	brown	500																																											
5	UL1007	24	yellow	500																																											
6	UL1007	24	gray	500																																											
7	UL1007	24	orange	500																																											
8	UL1007	24	purple	500																																											

# FETA Series

## Mating harness

Model	Harness model #	Contents
FETA2500BA	H-SN-47	Harness for using all of CN1 and CN2 (Single side housing)
FETA3000BA	H-SN-55	Harness for using all of CN1 and CN2 (Both side housing)
FETA7000T	H-PA-12	Harness for parallel operation
FETA7000ST	H-PA-13	Harness for parallel operation and using all other functions of CN1 and CN2
FETA3000BC	H-SN-77	Harness for using all of CN1 and CN2 (Single side housing)
	H-SN-78	Harness for using all of CN3 (Single side housing)
	H-PA-19	Harness for parallel operation

<p>●Model number <b>H-SN-47</b></p> <p>Housing : PUDP-12V-S(J.S.T.) Pin : SPUD-002T-P0.5(J.S.T.) Weight : 13g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr><td>1</td><td>UL1061</td><td>28</td><td>white</td><td>500</td></tr> <tr><td>2</td><td>UL1061</td><td>28</td><td>pink</td><td>500</td></tr> <tr><td>3</td><td>UL1061</td><td>28</td><td>brown</td><td>500</td></tr> <tr><td>4</td><td>UL1061</td><td>28</td><td>yellow</td><td>500</td></tr> <tr><td>5</td><td>UL1061</td><td>28</td><td>gray</td><td>500</td></tr> <tr><td>6</td><td>UL1061</td><td>28</td><td>orange</td><td>500</td></tr> <tr><td>7</td><td>UL1061</td><td>28</td><td>purple</td><td>500</td></tr> <tr><td>8</td><td>UL1061</td><td>28</td><td>red</td><td>500</td></tr> <tr><td>9</td><td>UL1061</td><td>28</td><td>black</td><td>500</td></tr> <tr><td>10</td><td>UL1061</td><td>28</td><td>blue</td><td>500</td></tr> <tr><td>11</td><td>UL1061</td><td>28</td><td>yellow</td><td>500</td></tr> <tr><td>12</td><td>UL1061</td><td>28</td><td>green</td><td>500</td></tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1061	28	white	500	2	UL1061	28	pink	500	3	UL1061	28	brown	500	4	UL1061	28	yellow	500	5	UL1061	28	gray	500	6	UL1061	28	orange	500	7	UL1061	28	purple	500	8	UL1061	28	red	500	9	UL1061	28	black	500	10	UL1061	28	blue	500	11	UL1061	28	yellow	500	12	UL1061	28	green	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																																																															
1	UL1061	28	white	500																																																															
2	UL1061	28	pink	500																																																															
3	UL1061	28	brown	500																																																															
4	UL1061	28	yellow	500																																																															
5	UL1061	28	gray	500																																																															
6	UL1061	28	orange	500																																																															
7	UL1061	28	purple	500																																																															
8	UL1061	28	red	500																																																															
9	UL1061	28	black	500																																																															
10	UL1061	28	blue	500																																																															
11	UL1061	28	yellow	500																																																															
12	UL1061	28	green	500																																																															
<p>●Model number <b>H-SN-55</b></p> <p>Housing : PUDP-12V-S(J.S.T.) Pin : SPUD-002T-P0.5(J.S.T.) Tube : E-651U-1(NIKKAN INDUSTRIES) Weight : 12g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr><td>1</td><td>UL10368</td><td>28</td><td>red</td><td>200</td></tr> <tr><td>2</td><td>UL10368</td><td>28</td><td>white</td><td>200</td></tr> <tr><td>3</td><td>UL10368</td><td>28</td><td>white</td><td>200</td></tr> <tr><td>4</td><td>UL10368</td><td>28</td><td>white</td><td>200</td></tr> <tr><td>5</td><td>UL10368</td><td>28</td><td>white</td><td>200</td></tr> <tr><td>6</td><td>UL10368</td><td>28</td><td>white</td><td>200</td></tr> <tr><td>7</td><td>UL10368</td><td>28</td><td>white</td><td>200</td></tr> <tr><td>8</td><td>UL10368</td><td>28</td><td>white</td><td>200</td></tr> <tr><td>9</td><td>UL10368</td><td>28</td><td>white</td><td>200</td></tr> <tr><td>10</td><td>UL10368</td><td>28</td><td>white</td><td>200</td></tr> <tr><td>11</td><td>UL10368</td><td>28</td><td>white</td><td>200</td></tr> <tr><td>12</td><td>UL10368</td><td>28</td><td>white</td><td>200</td></tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL10368	28	red	200	2	UL10368	28	white	200	3	UL10368	28	white	200	4	UL10368	28	white	200	5	UL10368	28	white	200	6	UL10368	28	white	200	7	UL10368	28	white	200	8	UL10368	28	white	200	9	UL10368	28	white	200	10	UL10368	28	white	200	11	UL10368	28	white	200	12	UL10368	28	white	200
Pin #	Wire	AWG	Color	Length ℓ (mm)																																																															
1	UL10368	28	red	200																																																															
2	UL10368	28	white	200																																																															
3	UL10368	28	white	200																																																															
4	UL10368	28	white	200																																																															
5	UL10368	28	white	200																																																															
6	UL10368	28	white	200																																																															
7	UL10368	28	white	200																																																															
8	UL10368	28	white	200																																																															
9	UL10368	28	white	200																																																															
10	UL10368	28	white	200																																																															
11	UL10368	28	white	200																																																															
12	UL10368	28	white	200																																																															
<p>●Model number <b>H-SN-77</b></p> <p>Housing : PUDP-8V-S(J.S.T.) Pin : SPUD-002T-P0.5(J.S.T.) Tube : EXLON-J φ3.0(IWASE) Weight : 3g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr><td>1</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>2</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>3</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>4</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>5</td><td>UL1061</td><td>28</td><td>gray</td><td>500</td></tr> <tr><td>6</td><td>UL1061</td><td>28</td><td>orange</td><td>500</td></tr> <tr><td>7</td><td>UL1061</td><td>28</td><td>purple</td><td>500</td></tr> <tr><td>8</td><td>UL1061</td><td>28</td><td>red</td><td>500</td></tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	-	-	-	-	2	-	-	-	-	3	-	-	-	-	4	-	-	-	-	5	UL1061	28	gray	500	6	UL1061	28	orange	500	7	UL1061	28	purple	500	8	UL1061	28	red	500																				
Pin #	Wire	AWG	Color	Length ℓ (mm)																																																															
1	-	-	-	-																																																															
2	-	-	-	-																																																															
3	-	-	-	-																																																															
4	-	-	-	-																																																															
5	UL1061	28	gray	500																																																															
6	UL1061	28	orange	500																																																															
7	UL1061	28	purple	500																																																															
8	UL1061	28	red	500																																																															
<p>●Model number <b>H-SN-78</b></p> <p>Housing : DF11-6DS-2C(HIROSE ELECTRIC) Pin : DF11-2428SCF(HIROSE ELECTRIC) Tube : EXLON-J φ3.0(IWASE) Weight : 4g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr><td>1</td><td>UL1061</td><td>28</td><td>white</td><td>500</td></tr> <tr><td>2</td><td>UL1061</td><td>28</td><td>pink</td><td>500</td></tr> <tr><td>3</td><td>UL1061</td><td>28</td><td>brown</td><td>500</td></tr> <tr><td>4</td><td>UL1061</td><td>28</td><td>yellow</td><td>500</td></tr> <tr><td>5</td><td>UL1061</td><td>28</td><td>gray</td><td>500</td></tr> <tr><td>6</td><td>UL1061</td><td>28</td><td>orange</td><td>500</td></tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1061	28	white	500	2	UL1061	28	pink	500	3	UL1061	28	brown	500	4	UL1061	28	yellow	500	5	UL1061	28	gray	500	6	UL1061	28	orange	500																														
Pin #	Wire	AWG	Color	Length ℓ (mm)																																																															
1	UL1061	28	white	500																																																															
2	UL1061	28	pink	500																																																															
3	UL1061	28	brown	500																																																															
4	UL1061	28	yellow	500																																																															
5	UL1061	28	gray	500																																																															
6	UL1061	28	orange	500																																																															



●Model number  
**H-PA-12**

Housing : PUDP-12V-S(J.S.T.)  
Pin : SPUD-002T-P0.5(J.S.T.)  
Weight : 5g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	-
7	UL1061	28	purple	210
8	UL1061	28	red	210
9	UL1061	28	black	210
10	UL1061	28	blue	210
11	UL1061	28	yellow	210
12	UL1061	28	green	210

●Model number  
**H-PA-13**

Housing : PUDP-12V-S(J.S.T.)  
Pin : SPUD-002T-P0.5(J.S.T.)  
Weight : 16g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)
1	UL1061	28	white	500
2	UL1061	28	pink	500
3	UL1061	28	brown	500
4	UL1061	28	yellow	500
5	UL1061	28	gray	500
6	UL1061	28	orange	500
7	UL1061	28	purple	210
8	UL1061	28	red	210
9	UL1061	28	black	210
10	UL1061	28	blue	210
11	UL1061	28	yellow	210
12	UL1061	28	green	210

\* Terminals of Pin #1 - #6 in CN1 and CN2 are opened.  
\* Pin #7 - #12 in CN1 are connected to same pins in CN2 by harness.

●Model number  
**H-PA-19**

Housing : PUDP-8V-S(J.S.T.)  
Pin : SPUD-002T-P0.5(J.S.T.)  
Tube : EXLON-J  $\phi$ 3.0(IWASE)  
Weight : 5g max

●Type

●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	UL1061	28	gray	210
6	UL1061	28	orange	210
7	UL1061	28	purple	210
8	UL1061	28	red	210

Harness to use the function is prepared in PCA series.

# PCA Series

## Mating harness

Model	Harness model #	Contents	Model	Harness model #	Contents
PCA300F PCA600F PCA1000F PCA1500F	H-PA-14	· Harness for abnormal protection of series operation	PCA600F-□-P2	H-PA-14	Harness for series operation and parallel operation (master-slave operation)
	H-PA-15	Harness for parallel operation and N+1 parallel redundancy operation		H-SN-48	Harness for using all functions of CN1 and CN2
	H-PA-16	Harness for master-slave operation of parallel operation (-P3 option)		H-SN-49	Harness for using all functions except remote sensing of CN1 and CN2
	H-SN-48	Harness for using all functions of CN1 and CN2		H-SN-50	Harness for using all functions of CN3
	H-SN-49	Harness for using all functions except remote sensing of CN1 and CN2		H-SN-51	Harness for using all functions of CN4
	H-SN-50	Harness for using all functions of CN3		H-SN-52	Harness for using example remote ON/OFF circuit (C)
	H-SN-51	Harness for using all functions of CN4		H-SN-53	Harness for use in slave setting of master-slave operation
	H-SN-52	Harness for using example remote ON/OFF circuit (C)		H-SN-54	Harness for use in effective setting of external output voltage adjustment
	H-SN-53	Harness for use in slave setting of master-slave operation (-P3 option)			
	H-SN-54	Harness for use in effective setting of external output voltage adjustment			
H-SN-66	Harness for using PMBus communication (-I option)				

●Model number

## H-PA-14

Housing : PHDR-12VS (J.S.T.)  
Pin : SPHD-002T-P0.5 (J.S.T.)  
Weight : 3g max

●External view

●Wiring diagram

●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	-
7	UL1061	28	pink	180
8	-	-	-	-
9	UL1061	28	yellow	180
10	UL1061	28	gray	180
11	UL1061	28	orange	180
12	UL1061	28	purple	180

●Model number

## H-PA-15

Housing : PHDR-12VS (J.S.T.)  
Pin : SPHD-002T-P0.5 (J.S.T.)  
Weight : 3g max

●External view

●Wiring diagram

●Wire

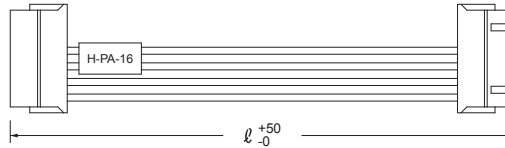
Pin #	Wire	AWG	Color	Length ℓ (mm)
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	UL1061	28	blue	180
6	UL1061	28	black	180
7	UL1061	28	pink	180
8	UL1061	28	green	180
9	-	-	-	-
10	UL1061	28	gray	180
11	UL1061	28	orange	180
12	UL1061	28	purple	180

●Model number

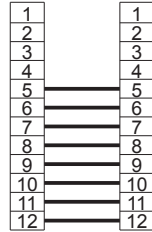
# H-PA-16

Housing : PHDR-12VS (J.S.T.)  
 Pin : SPHD-002T-P0.5 (J.S.T.)  
 Weight : 3g max

●External view



●Wiring diagram



●Wire

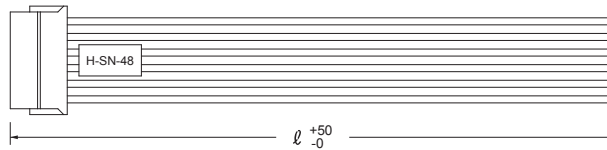
Pin #	Wire	AWG	Color	Length ℓ (mm)
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	UL1061	28	blue	180
6	UL1061	28	black	180
7	UL1061	28	pink	180
8	UL1061	28	green	180
9	UL1061	28	yellow	180
10	UL1061	28	gray	180
11	UL1061	28	orange	180
12	UL1061	28	purple	180

●Model number

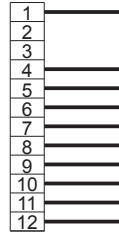
# H-SN-48

Housing : PHDR-12VS (J.S.T.)  
 Pin : SPHD-002T-P0.5 (J.S.T.)  
 Weight : 10g max

●External view



●Wiring diagram



●Wire

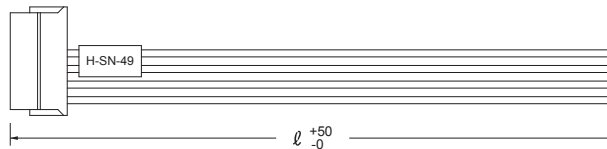
Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1061	28	red	500
2	-	-	-	-
3	-	-	-	-
4	UL1061	28	black	500
5	UL1061	28	blue	500
6	UL1061	28	black	500
7	UL1061	28	pink	500
8	UL1061	28	green	500
9	UL1061	28	yellow	500
10	UL1061	28	brown	500
11	UL1061	28	orange	500
12	UL1061	28	purple	500

●Model number

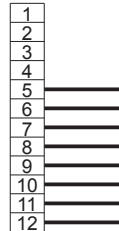
# H-SN-49

Housing : PHDR-12VS (J.S.T.)  
 Pin : SPHD-002T-P0.5 (J.S.T.)  
 Weight : 10g max

●External view



●Wiring diagram



●Wire

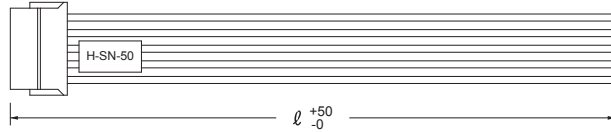
Pin #	Wire	AWG	Color	Length ℓ (mm)
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	UL1061	28	blue	500
6	UL1061	28	black	500
7	UL1061	28	pink	500
8	UL1061	28	green	500
9	UL1061	28	yellow	500
10	UL1061	28	brown	500
11	UL1061	28	orange	500
12	UL1061	28	purple	500

●Model number

# H-SN-50

Housing : PHDR-10VS (J.S.T.)  
 Pin : SPHD-002T-P0.5 (J.S.T.)  
 Weight : 8g max

●External view



●Wiring diagram



●Wire

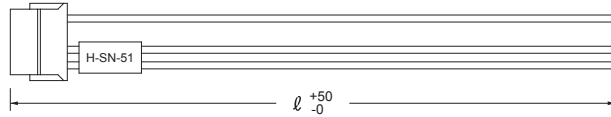
Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1061	24	orange	500
2	UL1061	24	white	500
3	UL1061	28	blue	500
4	UL1061	24	white	500
5	UL1061	28	yellow	500
6	UL1061	28	gray	500
7	UL1061	28	orange	500
8	UL1061	28	black	500
9	UL1061	28	purple	500
10	UL1061	28	green	500

●Model number

# H-SN-51

Housing : PHDR-08VS (J.S.T.)  
 Pin : SPHD-002T-P0.5 (J.S.T.)  
 Weight : 6g max

●External view



●Wiring diagram



●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	-	-	-	-
2	UL1061	28	brown	500
3	-	-	-	-
4	-	-	-	-
5	UL1061	28	blue	500
6	UL1061	28	orange	500
7	UL1061	28	pink	500
8	UL1061	28	brown	500

●Model number

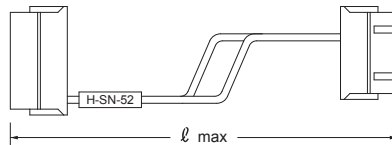
# H-SN-52

CN A :  
 Housing : PHDR-12VS (J.S.T.)  
 Pin : SPHD-002T-P0.5 (J.S.T.)

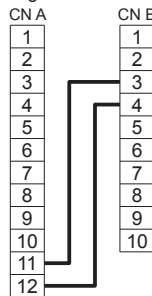
CN B :  
 Housing : PHDR-10VS (J.S.T.)  
 Pin : SPHD-002T-P0.5 (J.S.T.)

Weight : 3g max

●External view



●Wiring diagram



●Wire

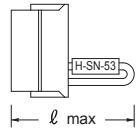
Pin #	Wire	AWG	Color	Length ℓ (mm)	
CN A	1	-	-	-	
	2	-	-	-	
	3	-	-	-	
	4	-	-	-	
	5	-	-	-	
	6	-	-	-	
	7	-	-	-	
	8	-	-	-	
	9	-	-	-	
	10	-	-	-	
	11	UL1061	28	black	70
	12	UL1061	28	black	70
CN B	1	-	-	-	
	2	-	-	-	
	3	UL1061	28	black	70
	4	UL1061	28	black	70
	5	-	-	-	
	6	-	-	-	
	7	-	-	-	
	8	-	-	-	
	9	-	-	-	
	10	-	-	-	

●Model number

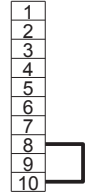
# H-SN-53

Housing : PHDR-10VS (J.S.T.)  
 Pin : SPHD-002T-P0.5 (J.S.T.)  
 Weight : 3g max

●External view



●Wiring diagram



●Wire

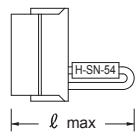
Pin #	Wire	AWG	Color	Length $\ell$ (mm)
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	UL1061	28	green	30
9	-	-	-	-
10	UL1061	28	green	30

●Model number

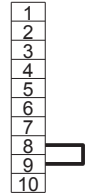
# H-SN-54

Housing : PHDR-10VS (J.S.T.)  
 Pin : SPHD-002T-P0.5 (J.S.T.)  
 Weight : 3g max

●External view



●Wiring diagram



\* Pin #8 and #9 are connected by harness.

●Wire

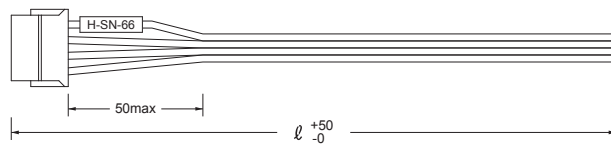
Pin #	Wire	AWG	Color	Length $\ell$ (mm)
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	UL1061	28	purple	30
9	UL1061	28	purple	30
10	-	-	-	-

●Model number

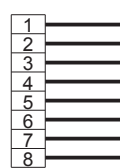
# H-SN-66

Housing : PHDR-08VS (J.S.T.)  
 Pin : SPHD-002T-P0.5 (J.S.T.)  
 Weight : 8g max

●External view



●Wiring diagram



●Wire

Pin #	Wire	AWG	Color	Length $\ell$ (mm)
1	UL2651	28	brown	500
2	UL2651	28	red	500
3	UL2651	28	orange	500
4	UL2651	28	yellow	500
5	UL2651	28	green	500
6	UL2651	28	blue	500
7	UL2651	28	purple	500
8	UL2651	28	gray	500

# AME Series

## Mating harness

Model	Harness model #	Contents
AME	H-SN-58	Harness for functions (AUX, GI, PR, INFO (for -I3 option)) in CN1
	H-SN-59	Harness for functions in CN3 (for Output module A-D,J-M)
	H-SN-60	Harness for functions in CN3 (for Output module E4-H4,E-H)
	H-SN-68	Harness for functions in CN3 (for Output module R)
	H-SN-51	Harness for functions in CN2 (for -I3 option)
	H-SN-66	Harness for functions in CN2 (for -I option)
	H-SN-61	Molex housing version of H-SN-58 (for -J3 option)
	H-SN-62	Molex housing version of H-SN-59 (for -J3 option of output module A-D,J-M)
	H-SN-63	Molex housing version of H-SN-60 (for -J3 option of output module E4-H4,E-H)
	H-SN-69	Molex housing version of H-SN-68 (for -J3 option of output module R)
	H-SN-65	Molex housing version of H-SN-51 (for -I3J3 option)
	H-SN-67	Molex housing version of H-SN-66 (for -I3J3 option)
	H-OU-42	Output harness (for -J2 option of output module A-D,K-M)
H-OU-43	Output harness (for -J2 option of output module E4-H4,E-H,J)	
H-OU-52	Output harness (for -J2 option of output module R)	

●Model number

## H-SN-58

Housing : PHDR-10VS (J.S.T.)  
Pin : SPHD-002T-P0.5 (J.S.T.)  
Weight : 8g max

●External view

●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1061	AWG24	orange	500
2	UL1061	AWG24	white	500
3	UL1061	AWG28	blue	500
4	UL1061	AWG24	white	500
5	UL1061	AWG28	green	500
6	UL1061	AWG28	purple	500
7	UL1061	AWG28	pink	500
8	UL1061	AWG28	brown	500
9	UL1061	AWG28	yellow	500
10	UL1061	AWG28	gray	500

●Wiring diagram

●Model number

## H-SN-59

Housing : PHDR-10VS (J.S.T.)  
Pin : SPHD-002T-P0.5 (J.S.T.)  
Weight : 4g max

●External view

●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1061	AWG28	yellow	500
2	UL1061	AWG28	orange	500
3	UL1061	AWG28	blue	500
4	UL1061	AWG28	gray	500
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-

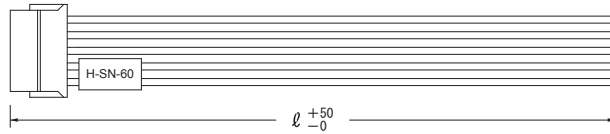
●Wiring diagram

●Model number

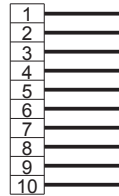
# H-SN-60

Housing : PHDR-10VS (J.S.T.)  
 Pin : SPHD-002T-P0.5 (J.S.T.)  
 Weight : 8g max

●External view



●Wiring diagram



●Wire

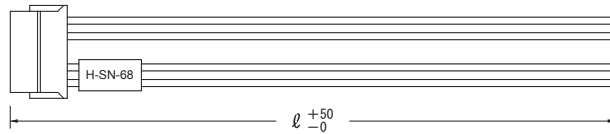
Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1061	AWG28	yellow	500
2	UL1061	AWG28	orange	500
3	UL1061	AWG28	blue	500
4	UL1061	AWG28	gray	500
5	UL1061	AWG28	red	500
6	UL1061	AWG28	black	500
7	UL1061	AWG28	brown	500
8	UL1061	AWG28	green	500
9	UL1061	AWG28	purple	500
10	UL1061	AWG28	white	500

●Model number

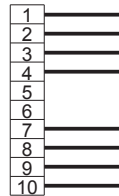
# H-SN-68

Housing : PHDR-10VS (J.S.T.)  
 Pin : SPHD-002T-P0.5 (J.S.T.)  
 Weight : 8g max

●External view



●Wiring diagram



●Wire

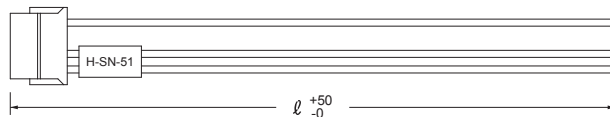
Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1061	AWG28	yellow	500
2	UL1061	AWG28	orange	500
3	UL1061	AWG28	blue	500
4	UL1061	AWG28	gray	500
5	-	-	-	-
6	-	-	-	-
7	UL1061	AWG28	brown	500
8	UL1061	AWG28	green	500
9	UL1061	AWG28	purple	500
10	UL1061	AWG28	white	500

●Model number

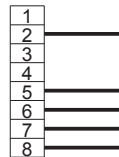
# H-SN-51

Housing : PHDR-08VS (J.S.T.)  
 Pin : SPHD-002T-P0.5 (J.S.T.)  
 Weight : 6g max

●External view



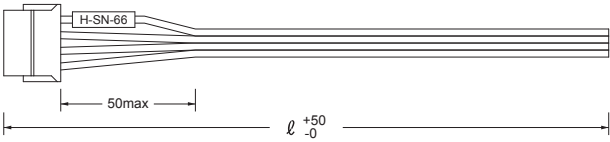
●Wiring diagram

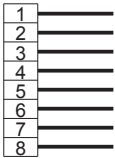


●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	-	-	-	-
2	UL1061	AWG28	brown	500
3	-	-	-	-
4	-	-	-	-
5	UL1061	AWG28	blue	500
6	UL1061	AWG28	orange	500
7	UL1061	AWG28	pink	500
8	UL1061	AWG28	brown	500

●Model number  
**H-SN-66**  
 Housing : PHDR-08VS (J.S.T)  
 Pin : SPHD-002T-P0.5 (J.S.T)  
 Weight : 8g max

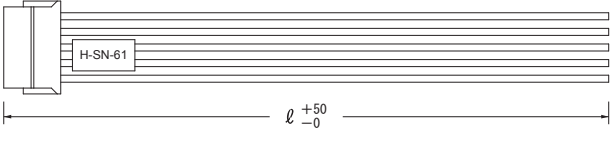
●External view  


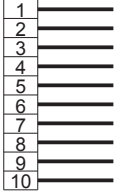
●Wiring diagram  


●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL2651	28	brown	500
2	UL2651	28	red	500
3	UL2651	28	orange	500
4	UL2651	28	yellow	500
5	UL2651	28	green	500
6	UL2651	28	blue	500
7	UL2651	28	purple	500
8	UL2651	28	gray	500

●Model number  
**H-SN-61**  
 Housing : 51110-1056 (Molex)  
 Pin : 50394-8051 (Molex)  
 Weight : 8g max

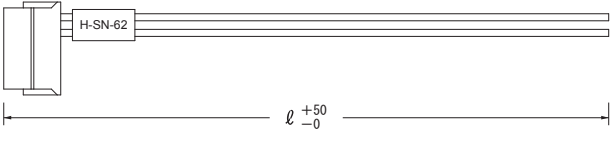
●External view  


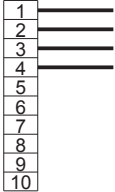
●Wiring diagram  


●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1061	AWG24	orange	500
2	UL1061	AWG24	white	500
3	UL1061	AWG28	blue	500
4	UL1061	AWG24	white	500
5	UL1061	AWG28	green	500
6	UL1061	AWG28	purple	500
7	UL1061	AWG28	pink	500
8	UL1061	AWG28	brown	500
9	UL1061	AWG28	yellow	500
10	UL1061	AWG28	gray	500

●Model number  
**H-SN-62**  
 Housing : 51110-1056 (Molex)  
 Pin : 50394-8051 (Molex)  
 Weight : 4g max

●External view  


●Wiring diagram  


●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1061	AWG28	yellow	500
2	UL1061	AWG28	orange	500
3	UL1061	AWG28	blue	500
4	UL1061	AWG28	gray	500
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-

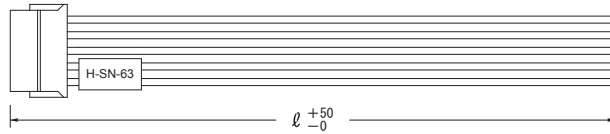


●Model number

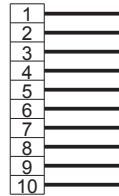
# H-SN-63

Housing : 51110-1056 (Molex)  
 Pin : 50394-8051 (Molex)  
 Weight : 8g max

●External view



●Wiring diagram



●Wire

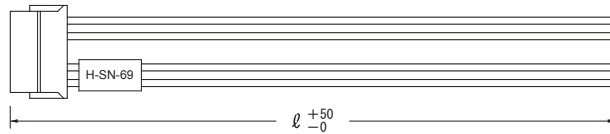
Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1061	AWG28	yellow	500
2	UL1061	AWG28	orange	500
3	UL1061	AWG28	blue	500
4	UL1061	AWG28	gray	500
5	UL1061	AWG28	red	500
6	UL1061	AWG28	black	500
7	UL1061	AWG28	brown	500
8	UL1061	AWG28	green	500
9	UL1061	AWG28	purple	500
10	UL1061	AWG28	white	500

●Model number

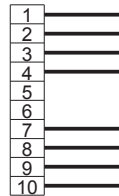
# H-SN-69

Housing : 51110-1056 (Molex)  
 Pin : 50394-8051 (Molex)  
 Weight : 8g max

●External view



●Wiring diagram



●Wire

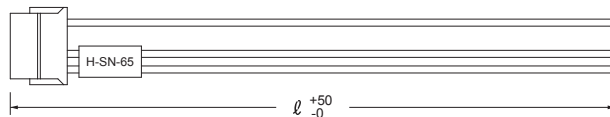
Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1061	AWG28	yellow	500
2	UL1061	AWG28	orange	500
3	UL1061	AWG28	blue	500
4	UL1061	AWG28	gray	500
5	-	-	-	-
6	-	-	-	-
7	UL1061	AWG28	brown	500
8	UL1061	AWG28	green	500
9	UL1061	AWG28	purple	500
10	UL1061	AWG28	white	500

●Model number

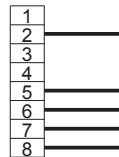
# H-SN-65

Housing : 51110-0856 (Molex)  
 Pin : 50394-8051 (Molex)  
 Weight : 6g max

●External view



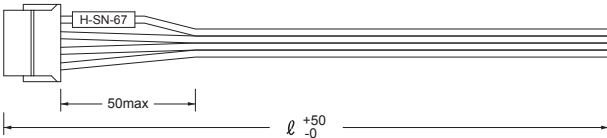
●Wiring diagram

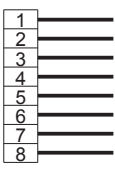


●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	-	-	-	-
2	UL1061	AWG28	brown	500
3	-	-	-	-
4	-	-	-	-
5	UL1061	AWG28	blue	500
6	UL1061	AWG28	orange	500
7	UL1061	AWG28	pink	500
8	UL1061	AWG28	brown	500

●Model number  
**H-SN-67**  
 Housing : 51110-0856 (Molex)  
 Pin : 50394-8051 (Molex)  
 Weight : 8g max

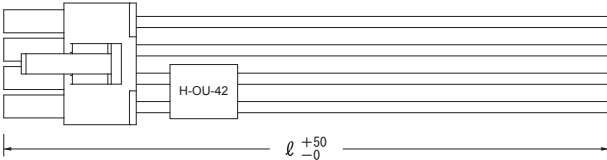
●External view  


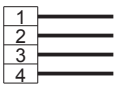
●Wiring diagram  


●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL2651	28	brown	500
2	UL2651	28	red	500
3	UL2651	28	orange	500
4	UL2651	28	yellow	500
5	UL2651	28	green	500
6	UL2651	28	blue	500
7	UL2651	28	purple	500
8	UL2651	28	gray	500

●Model number  
**H-OU-42**  
 Housing : 39014041 (Molex)  
 Pin : 45750-3111 (Molex)  
 Weight : 40g max

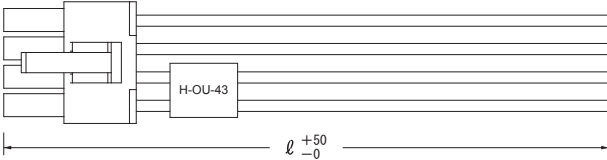
●External view  


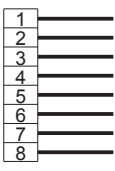
●Wiring diagram  


●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1430	AWG16	black	500
2	UL1430	AWG16	black	500
3	UL1430	AWG16	red	500
4	UL1430	AWG16	red	500

●Model number  
**H-OU-43**  
 Housing : 39012085 (Molex)  
 Pin : 45750-3111 (Molex)  
 Weight : 80g max

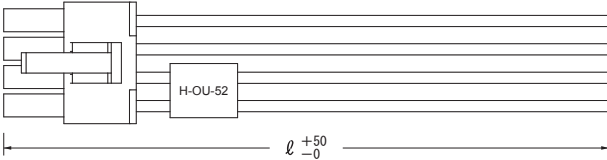
●External view  


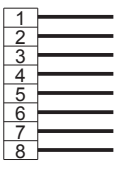
●Wiring diagram  


●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1430	AWG16	black	500
2	UL1430	AWG16	black	500
3	UL1430	AWG16	red	500
4	UL1430	AWG16	red	500
5	UL1430	AWG16	black	500
6	UL1430	AWG16	black	500
7	UL1430	AWG16	red	500
8	UL1430	AWG16	red	500

●Model number  
**H-OU-52**  
 Housing : 39012085 (Molex)  
 Pin : 45750-3111 (Molex)  
 Weight : 80g max

●External view  


●Wiring diagram  


●Wire

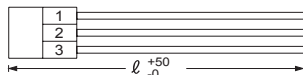
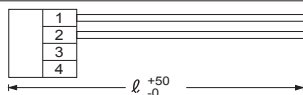
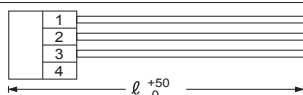
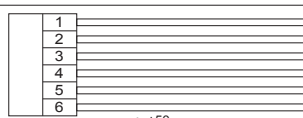
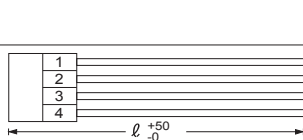
Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1430	AWG16	black	500
2	UL1430	AWG16	red	500
3	UL1430	AWG16	black	500
4	UL1430	AWG16	red	500
5	UL1430	AWG16	black	500
6	UL1430	AWG16	red	500
7	UL1430	AWG16	black	500
8	UL1430	AWG16	red	500

# RB Series

## Mating harness

Model	Harness model #	Contents
RBC200F RBC300F	H-IN- 5	Input harness (ground wire : green)
	H-IN-10	Input harness (ground wire : green/yellow)
	H-IN-25	Harness for connecting the external capacitor unit (CR-HUT).
	H-OU-41	Output harness (for V3)
RBC200F	H-OU-39	Output harness (for V1 · V2)
	H-OU-40	Output harness (for V1 · ±V2)
	H-SN-64	Harness for using Remote control / Alarm / Communication · For Remote control Use only pin # 1 and 3 · For Alarm and Communication Use only pin # 2 and 3
RBC300F	H-OU-49	Output harness (for V2)
	H-OU-50	Output harness (for ±V2)
	H-OU-51	Output harness (for V1)
	H-SN-70	Harness for using Remote control / Alarm / Communication · For Remote control Use only pin # 1 and 3 · For Alarm and Communication Use only pin # 2 and 3

<p>●Model number <b>H-IN-5</b> Housing : VHR-5N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 30g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>18</td> <td>white</td> <td>500</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>UL1015</td> <td>18</td> <td>green</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1015	18	black	500	2					3	UL1015	18	white	500	4					5	UL1015	18	green	500		
Pin #	Wire	AWG	Color	Length ℓ (mm)																														
1	UL1015	18	black	500																														
2																																		
3	UL1015	18	white	500																														
4																																		
5	UL1015	18	green	500																														
<p>●Model number <b>H-IN-10</b> Housing : VHR-5N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 30g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>18</td> <td>white</td> <td>500</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>UL1015</td> <td>18</td> <td>green/yellow</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1015	18	black	500	2					3	UL1015	18	white	500	4					5	UL1015	18	green/yellow	500		
Pin #	Wire	AWG	Color	Length ℓ (mm)																														
1	UL1015	18	black	500																														
2																																		
3	UL1015	18	white	500																														
4																																		
5	UL1015	18	green/yellow	500																														
<p>●Model number <b>H-IN-25</b> CN A: Housing : VHR-3N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) CN B: Housing : VHR-4N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 5g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td rowspan="3">CN A</td> <td>1</td> <td>UL1015</td> <td>20</td> <td>black</td> <td>100</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>20</td> <td>red</td> <td>100</td> </tr> <tr> <td rowspan="2">CN B</td> <td>1</td> <td>UL1015</td> <td>20</td> <td>black</td> <td>100</td> </tr> <tr> <td>4</td> <td>UL1015</td> <td>20</td> <td>red</td> <td>100</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	CN A	1	UL1015	20	black	100	2					3	UL1015	20	red	100	CN B	1	UL1015	20	black	100	4	UL1015	20	red	100
Pin #	Wire	AWG	Color	Length ℓ (mm)																														
CN A	1	UL1015	20	black	100																													
	2																																	
	3	UL1015	20	red	100																													
CN B	1	UL1015	20	black	100																													
	4	UL1015	20	red	100																													
<p>●Model number <b>H-OU-41</b> Housing : VHR-2N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 20g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1015	18	red	500	2	UL1015	18	black	500																	
Pin #	Wire	AWG	Color	Length ℓ (mm)																														
1	UL1015	18	red	500																														
2	UL1015	18	black	500																														
<p>●Model number <b>H-OU-39</b> Housing : VHR-7N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 70g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1, 2</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> <tr> <td>3, 4</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>5</td> <td>UL1015</td> <td>18</td> <td>orange</td> <td>500</td> </tr> <tr> <td>6</td> <td>UL1015</td> <td>18</td> <td>gray</td> <td>500</td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1, 2	UL1015	18	red	500	3, 4	UL1015	18	black	500	5	UL1015	18	orange	500	6	UL1015	18	gray	500	7						
Pin #	Wire	AWG	Color	Length ℓ (mm)																														
1, 2	UL1015	18	red	500																														
3, 4	UL1015	18	black	500																														
5	UL1015	18	orange	500																														
6	UL1015	18	gray	500																														
7																																		
<p>●Model number <b>H-OU-40</b> Housing : VHR-7N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 70g max</p>	<p>●Type</p>	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1, 2</td> <td>UL1015</td> <td>18</td> <td>red</td> <td>500</td> </tr> <tr> <td>3, 4</td> <td>UL1015</td> <td>18</td> <td>black</td> <td>500</td> </tr> <tr> <td>5</td> <td>UL1015</td> <td>18</td> <td>orange</td> <td>500</td> </tr> <tr> <td>6</td> <td>UL1015</td> <td>18</td> <td>gray</td> <td>500</td> </tr> <tr> <td>7</td> <td>UL1015</td> <td>18</td> <td>purple</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1, 2	UL1015	18	red	500	3, 4	UL1015	18	black	500	5	UL1015	18	orange	500	6	UL1015	18	gray	500	7	UL1015	18	purple	500		
Pin #	Wire	AWG	Color	Length ℓ (mm)																														
1, 2	UL1015	18	red	500																														
3, 4	UL1015	18	black	500																														
5	UL1015	18	orange	500																														
6	UL1015	18	gray	500																														
7	UL1015	18	purple	500																														

<p>●Model number <b>H-SN-64</b> Housing : PHR-3 (J.S.T.) Pin : SPH-002T-P0.5S (J.S.T.) Weight : 4g max</p>	<p>●Type</p> 	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1017</td> <td>26</td> <td>orange</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1017</td> <td>26</td> <td>yellow</td> <td>500</td> </tr> <tr> <td>3</td> <td>UL1017</td> <td>26</td> <td>blue</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1017	26	orange	500	2	UL1017	26	yellow	500	3	UL1017	26	blue	500															
Pin #	Wire	AWG	Color	Length ℓ (mm)																																	
1	UL1017	26	orange	500																																	
2	UL1017	26	yellow	500																																	
3	UL1017	26	blue	500																																	
<p>●Model number <b>H-OU-49</b> Housing : VHR-4N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 20g max</p>	<p>●Type</p> 	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>orange</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1015</td> <td>18</td> <td>gray</td> <td>500</td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1015	18	orange	500	2	UL1015	18	gray	500	3					4														
Pin #	Wire	AWG	Color	Length ℓ (mm)																																	
1	UL1015	18	orange	500																																	
2	UL1015	18	gray	500																																	
3																																					
4																																					
<p>●Model number <b>H-OU-50</b> Housing : VHR-4N (J.S.T.) Pin : SVH-21T-P1.1 (J.S.T.) Weight : 30g max</p>	<p>●Type</p> 	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1015</td> <td>18</td> <td>orange</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1015</td> <td>18</td> <td>gray</td> <td>500</td> </tr> <tr> <td>3</td> <td>UL1015</td> <td>18</td> <td>purple</td> <td>500</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1015	18	orange	500	2	UL1015	18	gray	500	3	UL1015	18	purple	500	4														
Pin #	Wire	AWG	Color	Length ℓ (mm)																																	
1	UL1015	18	orange	500																																	
2	UL1015	18	gray	500																																	
3	UL1015	18	purple	500																																	
4																																					
<p>●Model number <b>H-OU-51</b> Housing : VHR-6N (J.S.T.) Pin : SVH-41T-P1.1 (J.S.T.) Weight : 65g max</p>	<p>●Type</p> 	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1430</td> <td>16</td> <td>red</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1430</td> <td>16</td> <td>red</td> <td>500</td> </tr> <tr> <td>3</td> <td>UL1430</td> <td>16</td> <td>red</td> <td>500</td> </tr> <tr> <td>4</td> <td>UL1430</td> <td>16</td> <td>black</td> <td>500</td> </tr> <tr> <td>5</td> <td>UL1430</td> <td>16</td> <td>black</td> <td>500</td> </tr> <tr> <td>6</td> <td>UL1430</td> <td>16</td> <td>black</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1430	16	red	500	2	UL1430	16	red	500	3	UL1430	16	red	500	4	UL1430	16	black	500	5	UL1430	16	black	500	6	UL1430	16	black	500
Pin #	Wire	AWG	Color	Length ℓ (mm)																																	
1	UL1430	16	red	500																																	
2	UL1430	16	red	500																																	
3	UL1430	16	red	500																																	
4	UL1430	16	black	500																																	
5	UL1430	16	black	500																																	
6	UL1430	16	black	500																																	
<p>●Model number <b>H-SN-70</b> Housing : PHR-4 (J.S.T.) Pin : SPH-002T-P0.5S (J.S.T.) Weight : 8g max</p>	<p>●Type</p> 	<p>●Wire</p> <table border="1"> <thead> <tr> <th>Pin #</th> <th>Wire</th> <th>AWG</th> <th>Color</th> <th>Length ℓ (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UL1017</td> <td>26</td> <td>orange</td> <td>500</td> </tr> <tr> <td>2</td> <td>UL1017</td> <td>26</td> <td>yellow</td> <td>500</td> </tr> <tr> <td>3</td> <td>UL1017</td> <td>26</td> <td>blue</td> <td>500</td> </tr> <tr> <td>4</td> <td>UL1017</td> <td>26</td> <td>gray</td> <td>500</td> </tr> </tbody> </table>	Pin #	Wire	AWG	Color	Length ℓ (mm)	1	UL1017	26	orange	500	2	UL1017	26	yellow	500	3	UL1017	26	blue	500	4	UL1017	26	gray	500										
Pin #	Wire	AWG	Color	Length ℓ (mm)																																	
1	UL1017	26	orange	500																																	
2	UL1017	26	yellow	500																																	
3	UL1017	26	blue	500																																	
4	UL1017	26	gray	500																																	

Harness to use the function of AEA Series is prepared.

\* Please see the our company home page or consult us about detailed information.

# AEA Series

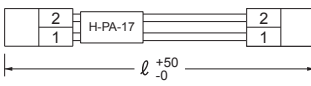
## Mating harness

Model	Harness model #	Contents
AEA Series	H-PA-17	Harness for parallel operation
	H-IN-11	Input harness when I/O interface is connector type (option:-J)
	H-OU-53	Output harness when I/O interface is connector type (option:-J)
	H-SN-71	Harness for using functions of CN3 (option:-R3)

●Model number  
**H-PA-17**

Housing : PHR-2 (J.S.T.)  
Pin : SPH-002T-P0.5S (J.S.T.)  
Weight : 4g max

●Type



●Wire

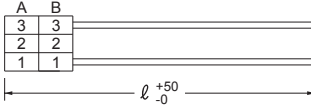
Pin #	Wire	AWG	Color	Length l (mm)
1	UL1007	26	yellow	200
2	UL1007	26	orange	200

---

●Model number  
**H-IN-11**

Housing : 1-178129-6(TE Connectivity)  
Pin : 1-175218-5 equivalent goods (TE Connectivity)  
Weight : 45g max

●Type



●Wire

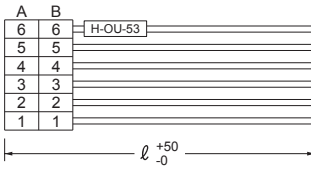
Pin #	Wire	AWG	Color	Length l (mm)
B 1	UL1015	18	white	500
A 1	UL1015	18	white	500
B 2	-	-	-	-
A 2	-	-	-	-
B 3	UL1015	18	black	500
A 3	UL1015	18	black	500

---

●Model number  
**H-OU-53**

Housing : 178289-6(TE connectivity)  
Pin : 1-353717-5 equivalent goods (TE connectivity)  
Weight : 120g max

●Type



●Wire

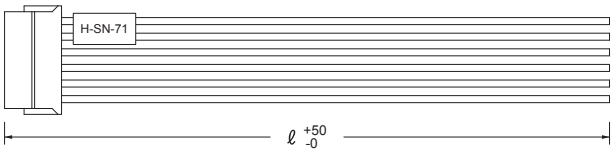
Pin #	Wire	AWG	Color	Length l (mm)
B 1	UL1007	16	red	500
A 1	UL1007	16	red	500
B 2	UL1007	16	red	500
A 2	UL1007	16	red	500
B 3	UL1007	16	red	500
A 3	UL1007	16	red	500
B 4	UL1007	16	black	500
A 4	UL1007	16	black	500
B 5	UL1007	16	black	500
A 5	UL1007	16	black	500
B 6	UL1007	16	black	500
A 6	UL1007	16	black	500

---

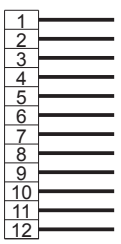
●Model number  
**H-SN-71**

Housing : PHDR-12VS (J.S.T.)  
Pin : SPHD-002T-P0.5 (J.S.T.)  
Weight : 22g max

●External view



●Wiring diagram



●Wire

Pin #	Wire	AWG	Color	Length l (mm)
1	UL1061	24	orange	500
2	UL1061	24	white	500
3	UL1061	24	red	500
4	UL1061	24	blue	500
5	UL1061	24	red	500
6	UL1061	24	blue	500
7	UL1061	28	brown	500
8	UL1061	28	green	500
9	UL1061	28	purple	500
10	UL1061	28	black	500
11	UL1061	28	yellow	500
12	UL1061	28	grey	500

Option-54

January 28, 2022

# HCA Series

## Mating harness

Model	Harness model #	Contents
HCA3500TF	H-SN-74	Harness for using functions of CN1 and CN2. (Single side housing)
	H-SN-75	Harness for using functions of CN3 without digital communication. (Single side housing)
	H-SN-76	Harness for using functions of CN3. (Single side housing) (For -I4 option)
	H-PA-18	Harness for parallel operation. (Both side housing)

●Model number  
**H-SN-74**

Housing : PDHR-08VS(J.S.T.)  
Pin : SPHD-002T-P0.5(J.S.T.)  
Weight : 10g max

●External view

●Wire

Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1061	28	red	500
2	-	-	-	-
3	-	-	-	-
4	UL1061	28	black	500
5	UL1061	28	green	500
6	-	-	-	-
7	UL1061	28	yellow	500
8	UL1061	28	gray	500

●Model number  
**H-SN-75**

Housing : PDHR-14VS(J.S.T.)  
Pin : SPHD-002T-P0.5(J.S.T.)  
Weight : 20g max

●External view

●Wire

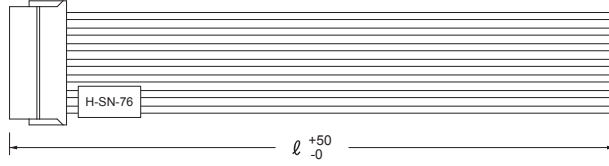
Pin #	Wire	AWG	Color	Length ℓ (mm)
1	UL1061	24	white	500
2	UL1061	28	gray	500
3	UL1061	24	orange	500
4	-	-	-	-
5	-	-	-	-
6	-	-	-	-
7	UL1061	28	purple	500
8	-	-	-	-
9	UL1061	28	red	500
10	UL1061	28	black	500
11	UL1061	28	pink	500
12	UL1061	28	gray	500
13	UL1061	28	orange	500
14	UL1061	28	blue	500

●Model number

# H-SN-76

Housing : PDHR-14VS(J.S.T)  
 Pin : SPHD-002T-P0.5(J.S.T)  
 Weight : 25g max

●External view



●Wire

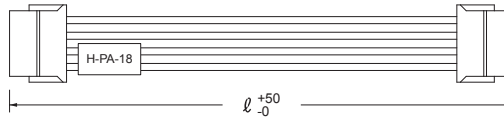
Pin #	Wire	AWG	Color	Length $l$ (mm)
1	UL1061	24	white	500
2	UL1061	28	gray	500
3	UL1061	24	orange	500
4	UL1061	28	blue	500
5	UL1061	28	yellow	500
6	UL1061	28	brown	500
7	UL1061	28	purple	500
8	UL1061	28	green	500
9	UL1061	28	red	500
10	UL1061	28	black	500
11	UL1061	28	pink	500
12	UL1061	28	gray	500
13	UL1061	28	orange	500
14	UL1061	28	blue	500

●Model number

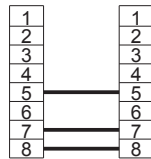
# H-PA-18

Housing : PDHR-08VS(J.S.T)  
 Pin : SPHD-002T-P0.5(J.S.T)  
 Weight : 7g max

●External view



●Wiring diagram



●Wire

Pin #	Wire	AWG	Color	Length $l$ (mm)
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	UL1061	28	green	180
6	-	-	-	-
7	UL1061	28	yellow	180
8	UL1061	28	gray	180