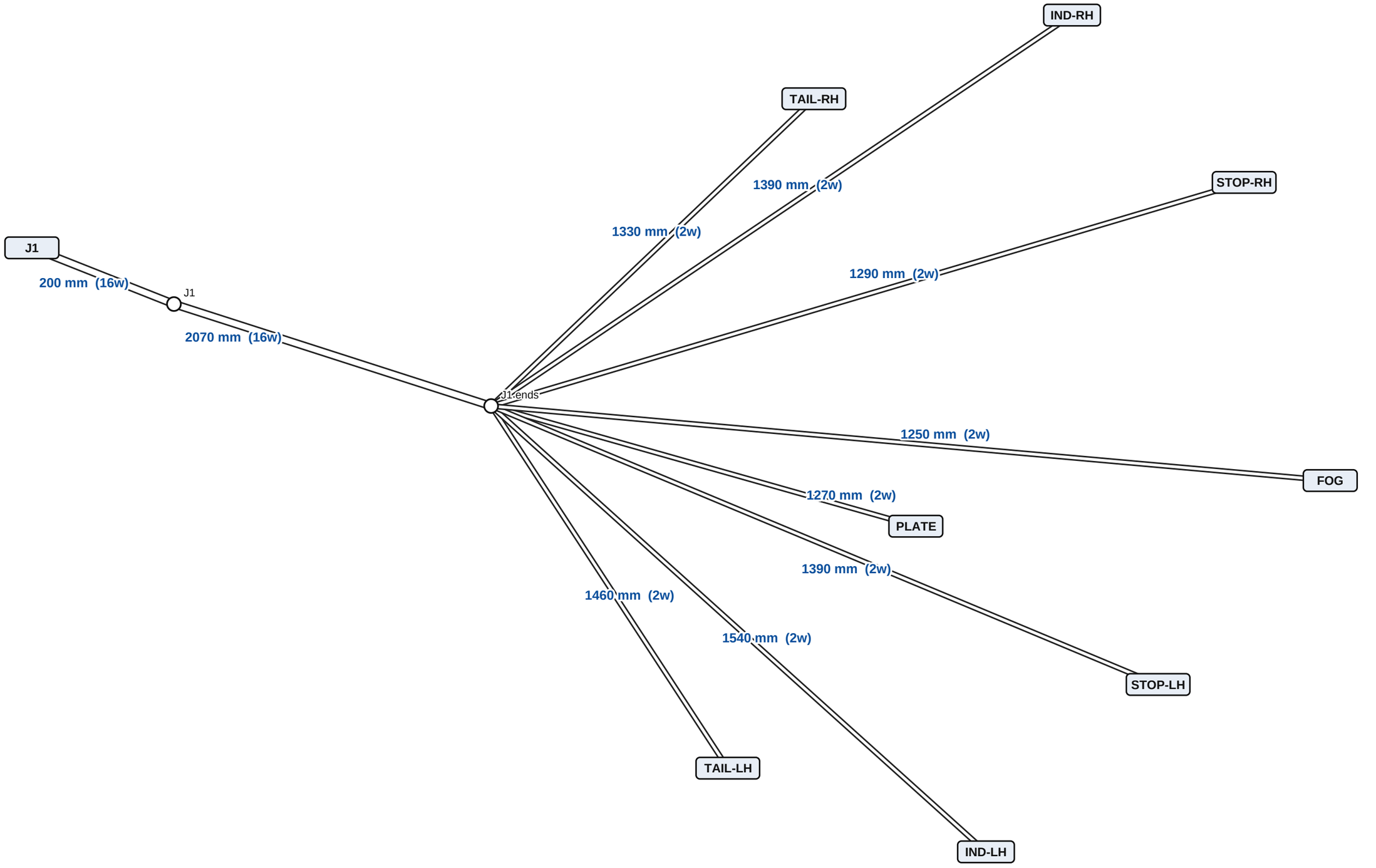
Trailer 7-pin Lighting Loom - loom diagram - loom laid flat - Area 1 of 1

NOT TO SCALE - runs drawn straight (bends removed) and spread out so every label can be read. Blue = loom length in mm between connectors / junctions, then wires in the run. Dashed boxes continue on another drawing (the area number shows which one; see the key plan).



Trailer 7-pin Lighting Loom - loom diagram - wire protection

Protection fitted on each bundle run. Min sleeve ID = bundle diameter x 1.2. Totals include 10% waste allowance.

Run	Bundle name	Length mm	Wires	Bundle dia mm	Min sleeve ID	Protection	Code	Size / colour / part no.
J1 - J1		200	16	9.7	11.6	NONE		
TAIL-LH - J1 ends		1460	2	3.4	4.1	NONE		
TAIL-RH - J1 ends		1330	2	3.4	4.1	NONE		
PLATE - J1 ends		1270	2	3.4	4.1	NONE		
IND-LH - J1 ends		1540	2	3.4	4.1	NONE		
IND-RH - J1 ends		1390	2	3.4	4.1	NONE		
STOP-LH - J1 ends		1390	2	3.4	4.1	NONE		
STOP-RH - J1 ends		1290	2	3.4	4.1	NONE		
FOG - J1 ends		1250	2	3.4	4.1	NONE		
J1 - J1 ends		2070	16	9.7	11.6	NONE		

Trailer 7-pin Lighting Loom - loom diagram - terminations

Every wire end: connector pin, contact part and any terminal fitted. Use the pin ID (e.g. BH1-A.3) as the heat-shrink / sleeve marker label on each wire end.

Connector	Pin ID	Pin function	Wire	Gauge	Colour	Goes to	Contact part no.	Type	Terminal fitted
FOG	**FOG.1**	+24V	FOG.1-J1.2	18 AWG	Blue	FOG.1 > J1.2	-	Device	-
FOG	**FOG.2**	Earth	FOG.2-J1.3	18 AWG	White	FOG.2 > J1.3	-	Device	-
IND-LH	**IND-LH.1**	+24V	IND-LH.1-J1.1	18 AWG	Yellow	IND-LH.1 > J1.1	-	Device	-
IND-LH	**IND-LH.2**	Earth	IND-LH.2-J1.3	18 AWG	White	IND-LH.2 > J1.3	-	Device	-
IND-RH	**IND-RH.1**	+24V	IND-RH.1-J1.4	18 AWG	Green	IND-RH.1 > J1.4	-	Device	-
IND-RH	**IND-RH.2**	Earth	IND-RH.2-J1.3	18 AWG	White	IND-RH.2 > J1.3	-	Device	-
J1	**J1.1**	L indicator +24V	IND-LH.1-J1.1	18 AWG	Yellow	J1.1 > IND-LH.1	Trailer plug socket term~	socket contact	-
J1	**J1.2**	Rear fog +24V	FOG.1-J1.2	18 AWG	Blue	J1.2 > FOG.1	Trailer plug socket term~	socket contact	-
J1	**J1.3**	Earth (return)	TAIL-LH.2-J1.3	18 AWG	White	J1.3 > TAIL-LH.2	Trailer plug socket term~	socket contact	-
J1	**J1.3**	Earth (return)	TAIL-RH.2-J1.3	18 AWG	White	J1.3 > TAIL-RH.2	Trailer plug socket term~	socket contact	-
J1	**J1.3**	Earth (return)	PLATE.2-J1.3	18 AWG	White	J1.3 > PLATE.2	Trailer plug socket term~	socket contact	-
J1	**J1.3**	Earth (return)	IND-LH.2-J1.3	18 AWG	White	J1.3 > IND-LH.2	Trailer plug socket term~	socket contact	-
J1	**J1.3**	Earth (return)	IND-RH.2-J1.3	18 AWG	White	J1.3 > IND-RH.2	Trailer plug socket term~	socket contact	-
J1	**J1.3**	Earth (return)	STOP-LH.2-J1.3	18 AWG	White	J1.3 > STOP-LH.2	Trailer plug socket term~	socket contact	-
J1	**J1.3**	Earth (return)	STOP-RH.2-J1.3	18 AWG	White	J1.3 > STOP-RH.2	Trailer plug socket term~	socket contact	-
J1	**J1.3**	Earth (return)	FOG.2-J1.3	18 AWG	White	J1.3 > FOG.2	Trailer plug socket term~	socket contact	-
J1	**J1.4**	R indicator +24V	IND-RH.1-J1.4	18 AWG	Green	J1.4 > IND-RH.1	Trailer plug socket term~	socket contact	-
J1	**J1.5**	R tail + plate +24V	TAIL-RH.1-J1.5	18 AWG	Brown	J1.5 > TAIL-RH.1	Trailer plug socket term~	socket contact	-
J1	**J1.5**	R tail + plate +24V	PLATE.1-J1.5	18 AWG	Brown	J1.5 > PLATE.1	Trailer plug socket term~	socket contact	-
J1	**J1.6**	Stop lamps +24V	STOP-LH.1-J1.6	18 AWG	Red	J1.6 > STOP-LH.1	Trailer plug socket term~	socket contact	-
J1	**J1.6**	Stop lamps +24V	STOP-RH.1-J1.6	18 AWG	Red	J1.6 > STOP-RH.1	Trailer plug socket term~	socket contact	-
J1	**J1.7**	L tail +24V	TAIL-LH.1-J1.7	18 AWG	Black	J1.7 > TAIL-LH.1	Trailer plug socket term~	socket contact	-
PLATE	**PLATE.1**	+24V	PLATE.1-J1.5	18 AWG	Brown	PLATE.1 > J1.5	-	Device	-
PLATE	**PLATE.2**	Earth	PLATE.2-J1.3	18 AWG	White	PLATE.2 > J1.3	-	Device	-
STOP-LH	**STOP-LH.1**	+24V	STOP-LH.1-J1.6	18 AWG	Red	STOP-LH.1 > J1.6	-	Device	-
STOP-LH	**STOP-LH.2**	Earth	STOP-LH.2-J1.3	18 AWG	White	STOP-LH.2 > J1.3	-	Device	-
STOP-RH	**STOP-RH.1**	+24V	STOP-RH.1-J1.6	18 AWG	Red	STOP-RH.1 > J1.6	-	Device	-
STOP-RH	**STOP-RH.2**	Earth	STOP-RH.2-J1.3	18 AWG	White	STOP-RH.2 > J1.3	-	Device	-
TAIL-LH	**TAIL-LH.1**	+24V	TAIL-LH.1-J1.7	18 AWG	Black	TAIL-LH.1 > J1.7	-	Device	-
TAIL-LH	**TAIL-LH.2**	Earth	TAIL-LH.2-J1.3	18 AWG	White	TAIL-LH.2 > J1.3	-	Device	-
TAIL-RH	**TAIL-RH.1**	+24V	TAIL-RH.1-J1.5	18 AWG	Brown	TAIL-RH.1 > J1.5	-	Device	-
TAIL-RH	**TAIL-RH.2**	Earth	TAIL-RH.2-J1.3	18 AWG	White	TAIL-RH.2 > J1.3	-	Device	-

PIN-OUT / BUILD SHEET – every connector, pin by pin (wire no., length, gauge, colour, pin at the other end)

FOG — Lamp (2-wire) · device

PIN	WIRE	LEN mm	AWG	POL	COLOUR	OTHER END
1	FOG.1-J1.	3680	18		Blue	J1:2
2	FOG.2-J1.	3680	18		White	J1:3

IND-LH — Indicator lamp · device

PIN	WIRE	LEN mm	AWG	POL	COLOUR	OTHER END
1	IND-LH.1-	3970	18		Yellow	J1:1
2	IND-LH.2-	3970	18		White	J1:3

IND-RH — Indicator lamp · device

PIN	WIRE	LEN mm	AWG	POL	COLOUR	OTHER END
1	IND-RH.1-	3820	18		Green	J1:4
2	IND-RH.2-	3820	18		White	J1:3

J1 — TR7R24-7S · 7-way plug

PIN	WIRE	LEN mm	AWG	POL	COLOUR	OTHER END
1	IND-LH.1-	3970	18		Yellow	IND-LH:1
2	FOG.1-J1.	3680	18		Blue	FOG:1
3	TAIL-LH.2	3890	18		White	TAIL-LH:2
3	TAIL-RH.2	3760	18		White	TAIL-RH:2
3	PLATE.2-J	3700	18		White	PLATE:2
3	IND-LH.2-	3970	18		White	IND-LH:2
3	IND-RH.2-	3820	18		White	IND-RH:2
3	STOP-LH.2	3820	18		White	STOP-LH:2
3	STOP-RH.2	3720	18		White	STOP-RH:2
3	FOG.2-J1.	3680	18		White	FOG:2
4	IND-RH.1-	3820	18		Green	IND-RH:1
5	TAIL-RH.1	3760	18		Brown	TAIL-RH:1
5	PLATE.1-J	3700	18		Brown	PLATE:1
6	STOP-LH.1	3820	18		Red	STOP-LH:1
6	STOP-RH.1	3720	18		Red	STOP-RH:1
7	TAIL-LH.1	3890	18		Black	TAIL-LH:1

PLATE — Lamp (2-wire) · device

PIN	WIRE	LEN mm	AWG	POL	COLOUR	OTHER END
1	PLATE.1-J	3700	18		Brown	J1:5
2	PLATE.2-J	3700	18		White	J1:3

STOP-LH — Lamp (2-wire) · device

PIN	WIRE	LEN mm	AWG	POL	COLOUR	OTHER END
1	STOP-LH.1	3820	18		Red	J1:6
2	STOP-LH.2	3820	18		White	J1:3

STOP-RH — Lamp (2-wire) · device

PIN	WIRE	LEN mm	AWG	POL	COLOUR	OTHER END
1	STOP-RH.1	3720	18		Red	J1:6
2	STOP-RH.2	3720	18		White	J1:3

TAIL-LH — Lamp (2-wire) · device

PIN	WIRE	LEN mm	AWG	POL	COLOUR	OTHER END
1	TAIL-LH.1	3890	18		Black	J1:7
2	TAIL-LH.2	3890	18		White	J1:3

TAIL-RH — Lamp (2-wire) · device

PIN	WIRE	LEN mm	AWG	POL	COLOUR	OTHER END
1	TAIL-RH.1	3760	18		Brown	J1:5
2	TAIL-RH.2	3760	18		White	J1:3

TITLE	DRAWING No.	REV	DATE	SHEET
Trailer 7-pin Lighting Loom – loom diagram	Trailer 7-pin Lighting Loom	REV1.0	2026-11-21	A3 · 2/3

DESCRIPTION	DRAWN BY	CHECKED BY	COMPANY / CLIENT

PLUG-TO-PLUG RUN SCHEDULE – distances along the loom (mm) between connectors and junctions

FROM	TO	WIRES	RUN (mm)	CUT (mm)	ROUTE (connector —mm-> junction —mm-> connector)
FOG	**J1**	2	**3520**	3680	FOG —1250-> J1 ends —2070-> J1 —200-> J1
IND-LH	**J1**	2	**3810**	3970	IND-LH —1540-> J1 ends —2070-> J1 —200-> J1
IND-RH	**J1**	2	**3660**	3820	IND-RH —1390-> J1 ends —2070-> J1 —200-> J1
PLATE	**J1**	2	**3540**	3700	PLATE —1270-> J1 ends —2070-> J1 —200-> J1
STOP-LH	**J1**	2	**3660**	3820	STOP-LH —1390-> J1 ends —2070-> J1 —200-> J1
STOP-RH	**J1**	2	**3560**	3720	STOP-RH —1290-> J1 ends —2070-> J1 —200-> J1
TAIL-LH	**J1**	2	**3730**	3890	TAIL-LH —1460-> J1 ends —2070-> J1 —200-> J1
TAIL-RH	**J1**	2	**3600**	3760	TAIL-RH —1330-> J1 ends —2070-> J1 —200-> J1

RUN = sum of bundle-segment lengths between the two connectors. CUT = longest wire in the run, including the allowance added at each end.

TITLE	DRAWING No.	REV	DATE	SHEET
Trailer 7-pin Lighting Loom – loom diagram	Trailer 7-pin Lighting Loom	REV1.0	2026-11-21	A3 · 3/3

DESCRIPTION	DRAWN BY	CHECKED BY	COMPANY / CLIENT