

Linear

LiNi-R 504 Fixture Guide

KKDÖ

Indoor | Recessed | Low output up to 440lm/m (134lm/ft)

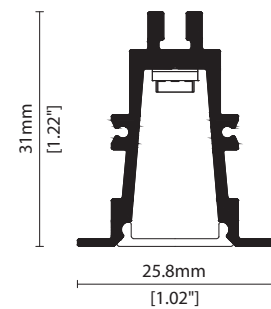


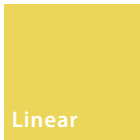
Key applications

- ✓ Ceiling
- ✓ Downlighting
- ✓ Interior
- ✓ Orientation lighting
- ✓ Under cabinet

Key features

- ✓ Custom lengths
- ✓ Diffusion: Homogenous
- ✓ Direct view
- ✓ Extensive CCT range
- ✓ Form factor: Medium
- ✓ IP40
- ✓ Output low



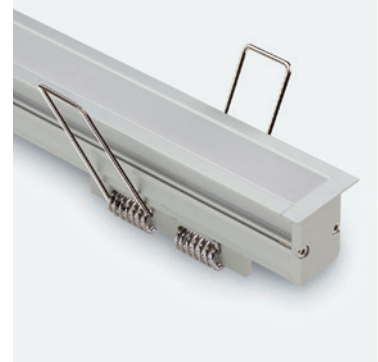


LiNi-R 504

Specification sheet



Dimension	H31/W25.8/L117-2017mm (H1.22/W1.02/L4.61-79.41in) (excluding spring clips)
PCB increment	100mm increment/2000mm max (3.94in increment/78.74in max)
LED pitch	16.7mm - 60LED/m (0.66in - 18LED/ft)
Chip	s/e-line Toyoda Gosei k-line Toyoda Gosei or Equivalent
Beam angle	110° (Diffused Cover)
Colours	s-line 1900K/2100K/2300K/2500K/2700K/3000K/3500K/4000K/5000K Single colours: Red/Green/Blue/Orange/Amber k-line 1900K/2100K/2300K/2500K/2700K/3000K/3500K/4000K/5000K
Bin/Step	s-line 2-step MacAdam ellipse e/k-line 3-step MacAdam ellipse
CRI	≥ 90
Lifetime	50,000 hours @ 25°C (50,000 hours @ 77°F)
Operating temp	T _a = -25 to 55°C (T _c max = 70°C) T _a = -13 to 131°F (T _c max = 158°F)
IP rating	IP40
Finish	Silver anodised
Cover/lens	Diffused
Mounting	Recessed mounting via spring clip
Power feed	Hardwire tails or male/female connectors
Control	0-10V/1-10V/DMX/DALI



LED Grading Key

Exclusive Grade

s s-line*	*KKDC tuned CCT range
2-step CCT range	
e e-line*	
3-step CCT range	

Base Grade

k k-line	3-step commercial range
	Energy Star CCTs

PERFORMANCE DATA @ 3000K

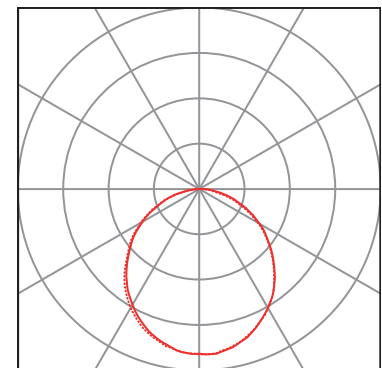
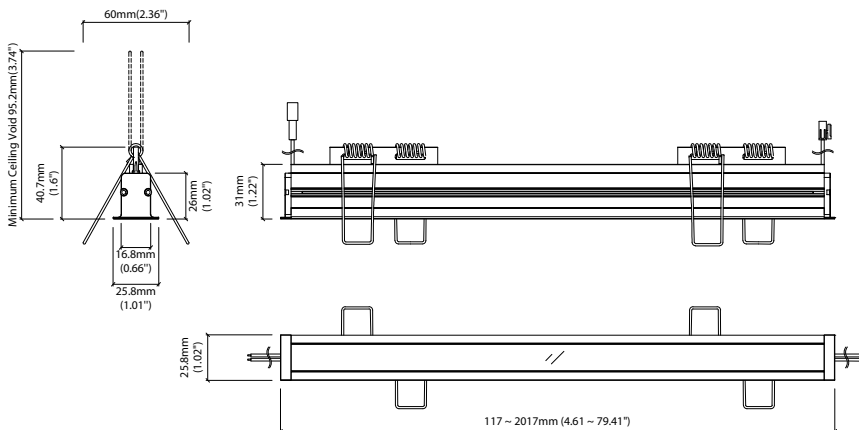
Power consumption	Supply voltage	Supply current
12.5W/m (3.81W/ft)	24V DC	0.52A/m (0.16A/ft)

Colour Rendering Index (CRI)

	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
k-line	94	97	98	93	93	96	92	83	60	93	94	82	95	99

Diffused Cover

				CRI	R9	Rf	Rg
s/e-line	440lm/m (134lm/ft)	35lm/W		92	50	-	-
k-line	420lm/m (128lm/ft)	33.9lm/W		92	60	-	-



— C0 / C180 cd / 1000 lm - - - C90 / C270

Data derived from independent UKAS / IESNA LM-79-08 accredited testing of production samples.

FIXTURE

Model	Finish	Cover	Grade ¹	LED	Colour (CCT)	Length Availability ²	IP	Cable Length	Power Feed ³	Input			
LiNi-R LR	Silver Anodised SA	Diffused C	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="background-color: #e91e63; color: white; padding: 2px 5px; margin-bottom: 2px;">s</div> <div style="background-color: #4caf50; color: white; padding: 2px 5px; margin-bottom: 2px;">e</div> <div style="background-color: #ff9800; color: white; padding: 2px 5px;">k</div> </div>	504	1900K	19	m 117-2017mm 100mm increments i 4.61-79.41in 3.94in increments (Specify length code OR total run length)	IP40 40	50mm/1.97"	0050	Single no sheath tail	S00X	DC 24V g
					2100K	21			300mm/11.81"	0300	Double no sheath tail	D00X	
					2300K	23			1000mm/39.37"	1000	Single no sheath IP20 connector	S20X	
					2500K	25			Double no sheath IP20 connector	D20X			
					2700K	27							
					3000K	30							
					3500K	35							
					4000K	40							
					5000K	50							
					RED	RED			s only				
					GREEN	GRN							
					BLUE	BLU							
					ORANGE	ORN							
					AMBER	AMB							

¹ Refer to **LED Grading Key** on **Specification sheet** page

² Refer to **Length Availability List** or enter total run length instead of length code

³ Refer to **Power Feed Options** on **Options** pages

Code Example:

LR	-	SA	-	C	-	s	-	504	-	35	-	m	-	517	-	40	-	0300	-	D00X	-	g
LiNi-R		Silver Anodised		Diffused		s		504		3500K		517mm		IP40		300mm/11.81"		Double no sheath tail		DC 24V		

ACCESSORIES
Connection Accessories

KKCN-01	2 PIN male & female 50mm/1.97" pair
KKCN-03	2 PIN male & female 300mm/11.81" pair
KKCN-06	2 PIN 300mm/11.81" extension lead

PSU/Driver

0-10V/1-10V/DALI/DMX

 * RRefer to **Driver/PSU Options** page for details or provide requirement and KKDC to offer the suitable option

 * Refer to **Power feed** on **Accessories** pages

LED ENGINE VARIANTS (LED STRIP TYPE)

Colour	Output	LED	Lumen/m	Lumen/ft	W/m	W/ft	Spec Doc	Length	Increment
Single CCT	Low	352	200	61	5.5	1.67	LiNi-R 352	100.3-2017mm/3.95-79.41in	83.3mm/3.28in
	Low	504	440	134	12.5	3.81	LiNi-R 504	117-2017mm/4.61-79.41in	100mm/3.94in
Warm Dim/Dynamic White	Mid	508	620	189	17.5	5.33	LiNi-R 508	88.4-2017mm/3.48-79.41in	71.4mm/2.81in
	Low	207	345	105	11	3.35	LiNi-R 207	100.3-2017mm/3.95-79.41in	83.3mm/3.28in
	Mid	208	550	186	15.6	4.75	LiNi-R 208	183.7-2017mm/7.23-79.41in	166.7mm/6.56in
RGB		501	Red 54 Green 116 Blue 19 RGB 167	Red 16 Green 35 Blue 6 RGB 51	15.6	4.75	LiNi-R RGB	100.3-2017mm/3.95-79.41in	83.3mm/3.28in

* Performance data: s/e-line, diffused cover, 3000K

LiNi-R 504

Length Availability List

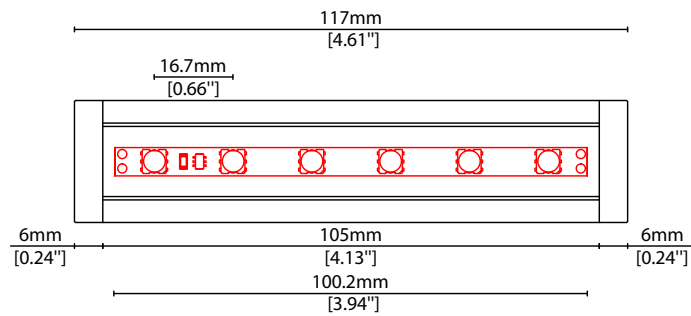


Length Code		Fixture Length ¹		LED Strip ²		End Cap Dimension ³		Wattage (W)	Output (lm)	
Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)	Metric	Imperial(US)		3000K (Test Data)	Range Data
m0117	i0005	117mm	4.61in	100mm	3.94in	12mm	0.47in	1.25	44	34-46
m0217	i0009	217mm	8.54in	200mm	7.87in	12mm	0.47in	2.50	88	68-91
m0317	i0012	317mm	12.48in	300mm	11.81in	12mm	0.47in	3.75	131	102-137
m0417	i0016	417mm	16.42in	400mm	15.75in	12mm	0.47in	5.00	175	136-182
m0517	i0020	517mm	20.35in	500mm	19.69in	12mm	0.47in	6.25	219	170-228
m0617	i0024	617mm	24.29in	600mm	23.62in	12mm	0.47in	7.50	263	203-273
m0717	i0028	717mm	28.23in	700mm	27.56in	12mm	0.47in	8.75	306	237-319
m0817	i0032	817mm	32.17in	800mm	31.50in	12mm	0.47in	10.00	350	271-364
m0917	i0036	917mm	36.10in	900mm	35.43in	12mm	0.47in	11.25	394	305-410
m1017	i0040	1017mm	40.04in	1000mm	39.37in	12mm	0.47in	12.50	438	339-455
m1117	i0044	1117mm	43.98in	1100mm	43.31in	12mm	0.47in	13.75	481	373-501
m1217	i0048	1217mm	47.91in	1200mm	47.24in	12mm	0.47in	15.00	525	407-546
m1317	i0052	1317mm	51.85in	1300mm	51.18in	12mm	0.47in	16.25	569	441-592
m1417	i0056	1417mm	55.79in	1400mm	55.12in	12mm	0.47in	17.50	613	475-637
m1517	i0060	1517mm	59.72in	1500mm	59.06in	12mm	0.47in	18.75	656	509-683
m1617	i0064	1617mm	63.66in	1600mm	62.99in	12mm	0.47in	20.00	700	542-728
m1717	i0068	1717mm	67.60in	1700mm	66.93in	12mm	0.47in	21.25	744	576-774
m1817	i0072	1817mm	71.54in	1800mm	70.87in	12mm	0.47in	22.50	788	610-819
m1917	i0075	1917mm	75.47in	1900mm	74.80in	12mm	0.47in	23.75	831	644-865
m2017	i0079	2017mm	79.41in	2000mm	78.74in	12mm	0.47in	25.00	875	678-910

¹ Actual total overall length of light fixture (LED strip + end caps + void/wire hole)

² Actual length of PCB strip

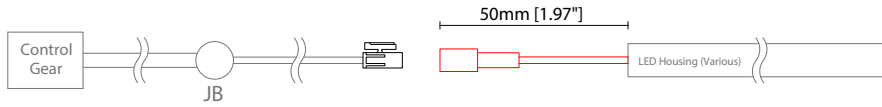
³ Actual length of 2x end caps



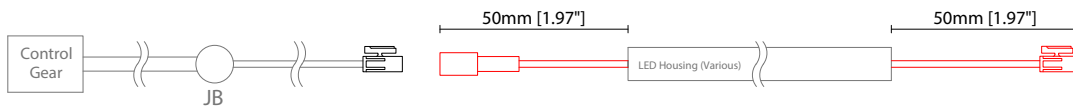
POWER FEED OPTIONS

* Options are an integral part of the fixture ordering codes. Please refer to **Code Table** pages.

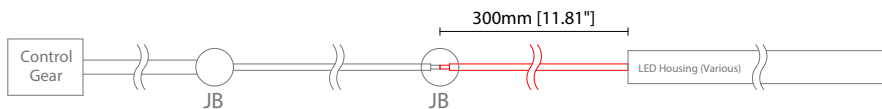
0050 S20X 50mm (1.97") Single no sheath IP20 connector



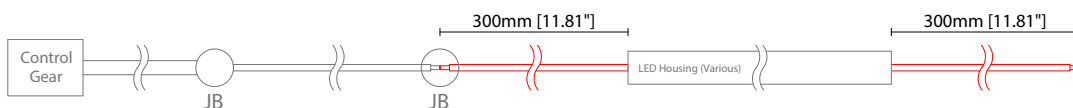
0050 D20X 50mm (1.97") Double no sheath IP20 connector



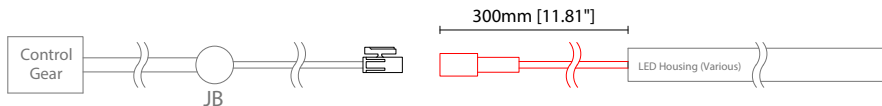
0300 S00X 300mm (11.81") Single no sheath tail



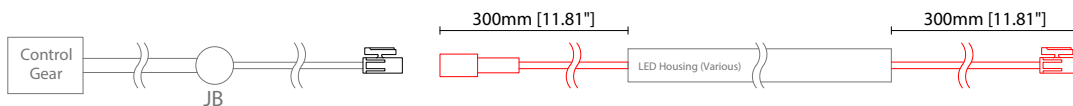
0300 D00X 300mm (11.81") Double no sheath tail



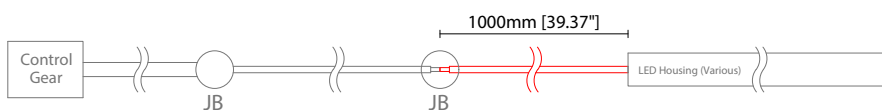
0300 S20X 300mm (11.81") Single no sheath IP20 connector



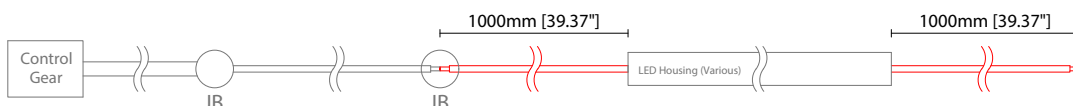
0300 D20X 300mm (11.81") Double no sheath IP20 connector



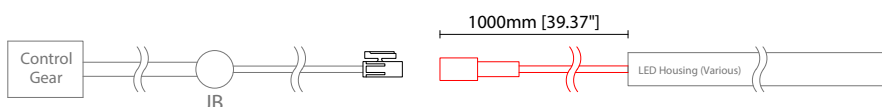
1000 S00X 1000mm (39.37") Single no sheath tail



1000 D00X 1000mm (39.37") Double no sheath tail



1000 S20X 1000mm (39.37") Single no sheath IP20 connector



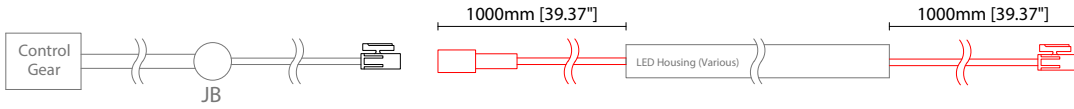
Key

Control Gear Power supply, sub-controllers & control systems

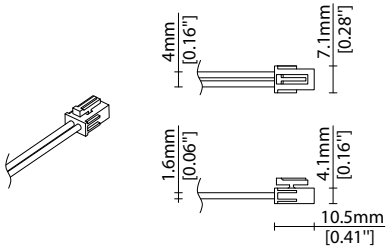
JB Junction box / cable connection

POWER FEED OPTIONS (CONTINUED)

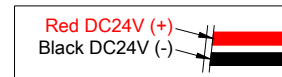
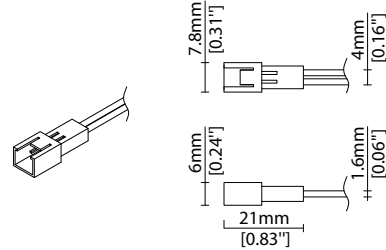
1000 D20X 1000mm (39.37") Double no sheath IP20 connector



2 Pin Female Connector



2 Pin Male Connector

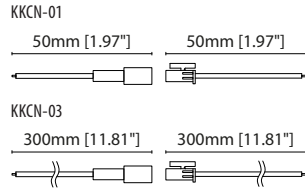
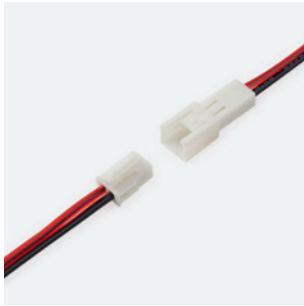


Key

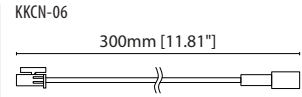
Control Gear Power supply, sub-controllers & control systems
JB Junction box / cable connection

POWER FEED

Note: Accessories are to be ordered separately with corresponding code shown below.



KKCN-01 50mm (1.97in) pair
KKCN-03 300mm (11.81in) pair
2 PIN male + female connector set



KKCN-06
2 PIN 300mm (11.81in) extension lead

KKDC CONTROL



IP20
Plastic housing
L170/W59/H29mm
(L6.69/W2.32/H1.14in)

KKDM-06 1-10V
visDIM dimmable sub-controller
(4 x 8A max @ 12-36V)



IP20
Plastic housing
L170/W53.4/H28mm
(L6.69/W2.10/H1.10in)

KKSC-05 DMX
visDIM dimmable sub-controller
(4 x 5A max @ 12-36V)



IP20
Plastic housing
L170/W59/H29mm
(L6.69/W2.32/H1.14in)

KKDL-02 DALI
visDIM dimmable sub-controller
(4 x 8A max @ 12-36V)



IP20
Plastic housing
L166/W53.4/H23mm
(L6.54/W2.10/H0.91in)

KKDL-03 DALI
visDIM dimmable sub-controller
(4 x 5A max @ 12-36V)

AVAILABLE PSU OPTIONS

Control Mode	PSU (Order Code)	Input Voltage AC	Output Voltage DC	Rated Output Current	Rated Power	Dim %	IP Rating
Switched	CEN-60-24	90-295V	24V	2.5A	60W	-	IP67
	HLG-60H-24	90-305V	24V	2.5A	60W	-	IP67
	HLG-100H-24	90-305V	24V	4.0A	100W	-	IP67
	HLG-150H-24	90-305V	24V	6.3A	150W	-	IP67
	HLG-240H-24	90-305V	24V	10A	240W	-	IP67
0-10V (1-10V)	PWM-40-24	90-305V	24V	1.67A	40W	100-0.15 (100-10)	IP67
	PWM-60-24	90-305V	24V	2.5A	60W	100-0.15 (100-10)	IP67
	PWM-90-24	90-305V	24V	3.67A	90W	100-0.15 (100-10)	IP67
	PWM-120-24	90-305V	24V	5.0A	120W	100-0.15 (100-10)	IP67
DALI	LIN100A1	120-277V	24V	1A per channel	100W	100-0.1	IP66/IP40
DMX RGB	LIN100A1	120-277V	24V	1.33A per channel	100W	100-0.1	IP66/IP40
DMX RGBW	LIN100A1	120-277A	24V	1A per channel	100W	100-0.1	IP66/IP40

Flicker Free Options - Combination of PSU+ sub-controller

Control Mode	PSU (Order Code)	Sub-controller (Order Code)	Input Voltage AC	Output Voltage DC	Rated Output Current	Rated Power	Dim %	IP Rating PSU/ Sub-controller
0-10V or 1-10V	CEN-60-24	KKDM-06	90-295V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-60H-24	KKDM-06	90-295V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-100H-24	KKDM-06	90-295V	24V	4.0A	100W	100-0.9	IP67/IP20
	HLG-150H-24	KKDM-06	90-295V	24V	6.3A	150W	100-0.9	IP67/IP20
	HLG-240H-24	KKDM-06	90-295V	24V	10.0A	240W	100-0.9	IP67/IP20
DALI	CEN-60-24	KKDL-02/03	90-295V	24V	2.5A	60W	100-0.1	IP67/IP20
	HLG-60H-24	KKDL-02/03	90-305V	24V	2.5A	60W	100-0.1	IP67/IP20
	HLG-100H-24	KKDL-02/03	90-305V	24V	4.0A	100W	100-0.1	IP67/IP20
	HLG-150H-24	KKDL-02/03	90-305V	24V	6.3A	150W	100-0.1	IP67/IP20
	HLG-240H-24	KKDL-02/03	90-305V	24V	10.0A	240W	100-0.1	IP67/IP20
DMX RGB	CEN-60-24	KKSC-05	90-295V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-60H-24	KKSC-05	90-305V	24V	2.5A	60W	100-0.9	IP67/IP20
	HLG-100H-24	KKSC-05	90-305V	24V	4A	100W	100-0.9	IP67/IP20
	HLG-150H-24	KKSC-05	90-305V	24V	6.3A	150W	100-0.9	IP67/IP20
	HLG-240H-24	KKSC-05	90-305V	24V	10.0A	240W	100-0.9	IP67/IP20

¹ The items shown above cover the most frequently used specification but does not exhaust the possible options

² PSU and/or driver can be chosen from the table, or KKDC may recommend the best option upon receipt of the controls requirement and installation environment

³ Electrical shop drawing will include detailed information of PSU and relevant control drivers

⁴ Cut sheets are available on the controls section of www.kkdc.lighting or upon request