REQUEST QUOTE NOW

Customer: Date:

Project:

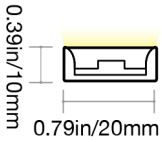


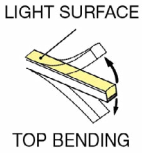
ULTRALONG LIGHTSTRIP 2XL: SILICONE - 48V

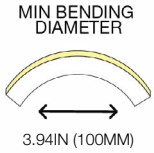
Indoor & Outdoor Rated Linear Flex Profile - Static Whites

RoHS COMPLIANT | Class 2 | UL | CE

PROFILE CAPABILITIES







CERTIFICATIONS & FEATURES*

IP68 | IK10 | 5 YEAR WARRANTY | 48 DC

RESISTANT: FLAME, UV, SOLVENT, SALT WATER

TEMPERATURES

AMBIENT OPERATING TEMPERATURE:
-40°F to 131°F (-40°C to 55°C)

AMBIENT INSTALLATION TEMPERATURE:
≥40°F (≥-40°C)

FIXTURE STORAGE TEMPERATURE:
-40°F to 140°F (-40°C to 60°C)

MAX MOUNTING SURFACE TEMPERATURE:
185°F (85°C)

HUMIDITY (NON-CONDENSING):
0–95%

THERMAL MANAGEMENT:
Free Air Convection

FIXTURE ORDER CODE

E			A									B		
P	2		A			V	1	P	2	T		1		
INPUT CONNECTORS			SERIES	MATERIAL		PROFILE	BENDING	JACKET/BASE + LENS COLOR				LED FUNCTION	LED COLOR	CHIP + CRI
See Page 6 to to select input connector			U = Ultra Long	1 = Silicone		P = Light-Strip 2XL	2 = Top	T = White + Transparent				1 = Static	H = 2200K J = 2700K L = 3000K M = 3500K N = 4000K Q = 5700K	2 = Epistar SMD LED Chip + CRI80

C		D	E			F				G	
			P	2	A	3	P	1	2	P	
POWER	VOLTAGE + CIRCUIT TYPE**	ORDER UNIT LENGTH	OUTPUT CONNECTOR			MOUNTING PROFILE				MOUNTING ACCESSORIES	POWER SUPPLIES & CONTROLS:
S = 0.61W/ft (2W/m) R = 1.52W/ft (5W/m) E = 2.74W/ft (9W/m) G = 3.66W/ft (12W/m)	3C = 48V DC CR	I = 6.56in (166.67mm) J = 9.84in (250mm)	See Page 6 to select output connector			See Page 8 to select mounting profiles				See Page 9 to select accessory	By Others By GLLS

*Maximum IP and IK ratings achievable with appropriate accessories. **The Current Regulated (CR) integrated circuit extends max run length. Use a 48V DC constant voltage (CV) power supply only. A constant current (CR) power supply may cause damage.

ULTRALONG LIGHTSTRIP 2XL: SILICONE - 48V

Indoor & Outdoor Rated Linear Flex Profile - Static Whites

COMPLEXITY, SIMPLIFIED.

A

MECHANICAL

ASSEMBLY

Fixtures are carefully assembled using high-quality components to ensure durability and performance. Each unit is built to meet strict specifications, with attention to electrical safety, thermal management, and optical alignment.

OVERALL & CUTTING LENGTHS

Fixtures feature defined overall lengths and specific cutting increments for easy customization. Cutting must be done at marked points to maintain proper function and consistent light output.

JACKET COLOR

The white silicone base with transparent lens cover provides a sleek look that reveals the internal LEDs, delivering crisp, vibrant light with maximum brightness and color accuracy—ideal for applications where LED visibility enhances visual impact.

BENDING RADIUS

Do not bend smaller than allowed minimum bend diameter, or may cause damage to the light & void warranty.

OPERATION

LIGHT ENGINE

Static Pulse Width Modulation (PWM) light engines deliver stable, flicker-free light at a fixed brightness. They offer consistent color and reliable performance for long-term applications.

ELECTRICAL

Designed to meet UL, CE, and RoHS standards, they feature overload, overvoltage, and short-circuit protection, along with low EMI and efficient thermal management for safe, reliable operation.

DIMMING

Dimming of 48V PWM fixtures is achieved via the driver or decoder used in the system. Depending on the selected driver/decoder, control options can include 0–10V, DMX, or DALI, enabling smooth, flicker-free dimming while maintaining consistent color and performance. Note: DMX and DALI are supported at the system level, not natively by the fixture.

GENERAL

WARRANTY

Limited 5-Year Warranty against defects in materials and manufacturing. Coverage applies to properly installed and maintained products. Damage from misuse or improper installation is not covered. GLLS may repair, replace, or issue credit for eligible claims.

LUMEN MAINTENANCE

GLLS static lighting fixtures are tested to IES LM-84 and projected with IES TM-28 to ensure consistent lumen maintenance. Fixtures are designed to retain at least 70% of their initial brightness (L70) over a 10-year lifespan when properly installed and operated.

CERTIFICATION

Tested to UL2108 Class 2 by Underwriters Laboratory for use in the USA and Canada. Exceeds ANSI C78.377A, CE, and RoHS standards. Must be used under Class 2 ratings to maintain certification.

UL Certificate #: TBA

Report Referance #: TBA

TESTING

OPTICAL TESTING

TEST	RESULTS
Spectrum Analysis	IES LM 79 (Lumen, CCT, CRI, XY, SDCM, Wavelength)
Photometric Distribution	IES LM 79
Lumen Maintenance & Lifetime	IES LM 84 & IES TM28

TEMPERATURE TESTING

TEST	RESULTS
Normal Temperature Test	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
Abnormal Operation Test	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21

ENVIRONMENTAL TESTING

TEST	RESULTS
Salt Water Immersion	IEC60598-1, Sailinity 4%
Salt Spray Test	IEC60068-2-11
Outdoor Exposure	Manufacturer-defined
Flame Resistance	UL94
UV Exposure	ASTMG 154, ISO 4892-3, UVA @ 340nm & 55
IPX8	EN 60598-1: 2015+A1:2018 Clause 9.2.2 & 9.2.8
Temperature Shock(Silicone)	Manufacturer-defined, -40°C - 60°C (typical temperature range)
Constant Temperature	Manufacturer-defined
12mm Needle Flame Test (Silicone)	IEC60695-11-5
650 Glow-wire Test (Silicone)	IEC60695-2-10

DURABILITY TESTING

TEST	RESULTS
Bending Test	Manufacturer-defined, 500 cycles
Tensile Test	Manufacturer-defined, > The weight of light in max.
Twist Test	Manufacturer-defined, >200 cycles
Ball Impact	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
IK	IEC62262

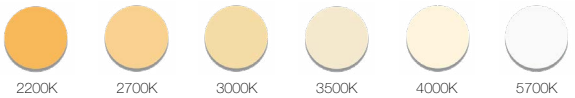
ULTRALONG LIGHTSTRIP 2XL: SILICONE - 48V

Indoor & Outdoor Rated Linear Flex Profile - Static Whites

COMPLEXITY, SIMPLIFIED.

B

LED COLORS



FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS - 0.61W/FT (2W/M)

COLOR	LED COUNT	1 CONNECTOR FULL/DYNAMIC*	2 CONNECTORS FULL/DYNAMIC*	UL CLASS 2 MAX RUN**	FIXTURE COLOR TOLERANCE***	WAVELENGTH/ CCT	LED CRI	LED COLOR TOLERANCE	LUMEN COUNT	LEGACY ORDER CODE
2200K	15 LEDs/ft (48 LEDs/m)	492.1ft (150m) / N/A	N/A	157.38ft (47.97m)	<3 SDCM	2238 ± 82K	80	N/A	52lm/ft (170lm/m)	UF20IW22WE22K48DC
2700K	15 LEDs/ft (48 LEDs/m)	492.1ft (150m) / N/A	N/A	157.38ft (47.97m)	<3 SDCM	2725 ± 115K	80	N/A	52lm/ft (170lm/m)	UF20IW22WE27K48DC
3000K	15 LEDs/ft (48 LEDs/m)	492.1ft (150m) / N/A	N/A	157.38ft (47.97m)	<3 SDCM	3045 ± 140K	80	N/A	52lm/ft (170lm/m)	UF20IW22WE30K48DC
3500K	15 LEDs/ft (48 LEDs/m)	492.1ft (150m) / N/A	N/A	157.38ft (47.97m)	<3 SDCM	3465 ± 170K	80	N/A	55lm/ft (180lm/m)	UF20IW22WE35K48DC
4000K	15 LEDs/ft (48 LEDs/m)	492.1ft (150m) / N/A	N/A	157.38ft (47.97m)	<3 SDCM	3985 ± 225K	80	N/A	55lm/ft (180lm/m)	UF20IW22WE40K48DC
5700K	15 LEDs/ft (48 LEDs/m)	492.1ft (150m) / N/A	N/A	157.38ft (47.97m)	<3 SDCM	5665 ± 355K	80	N/A	55lm/ft (180lm/m)	UF20IW22WE57K48DC

*Max run of 492.1ft (150m) is a single-feed joined run of 65.62ft (20m) pieces (20m x 7 + 10m x 1), not one continuous piece. **Max run length is per the manufacturer specification for a single 48V DC feed. UL Class 2 max run is based on a 96 W Class 2 power supply. Running length is based on voltage drop testing with a 0.3m (0.98ft) cable. ***Silicone products maintain ≤3 SDCM within a production run and <5 SDCM between production runs.

FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS - 1.52W/FT (5W/M)

COLOR	LED COUNT	1 CONNECTOR FULL/DYNAMIC*	2 CONNECTORS FULL/DYNAMIC*	UL CLASS 2 MAX RUN**	FIXTURE COLOR TOLERANCE***	WAVELENGTH/ CCT	LED CRI	LED COLOR TOLERANCE	LUMEN COUNT	LEGACY ORDER CODE
2200K	15 LEDs/ft (48 LEDs/m)	426.5ft (130m) / N/A	N/A	63.16ft (19.25m)	<3 SDCM	2238 ± 82K	80	N/A	122lm/ft (400lm/m)	UF20IW52WE22K48DC
2700K	15 LEDs/ft (48 LEDs/m)	426.5ft (130m) / N/A	N/A	63.16ft (19.25m)	<3 SDCM	2725 ± 115K	80	N/A	122lm/ft (400lm/m)	UF20IW52WE27K48DC
3000K	15 LEDs/ft (48 LEDs/m)	426.5ft (130m) / N/A	N/A	63.16ft (19.25m)	<3 SDCM	3045 ± 140K	80	N/A	122lm/ft (400lm/m)	UF20IW52WE30K48DC
3500K	15 LEDs/ft (48 LEDs/m)	426.5ft (130m) / N/A	N/A	63.16ft (19.25m)	<3 SDCM	3465 ± 170K	80	N/A	128lm/ft (420lm/m)	UF20IW52WE35K48DC
4000K	15 LEDs/ft (48 LEDs/m)	426.5ft (130m) / N/A	N/A	63.16ft (19.25m)	<3 SDCM	3985 ± 225K	80	N/A	128lm/ft (420lm/m)	UF20IW52WE40K48DC
5700K	15 LEDs/ft (48 LEDs/m)	426.5ft (130m) / N/A	N/A	63.16ft (19.25m)	<3 SDCM	5665 ± 355K	80	N/A	128lm/ft (420lm/m)	UF20IW52WE57K48DC

*Max run of 426.5ft (130m) is a single-feed joined run of 65.62ft (20m) pieces (20m x 6 + 10m x 1), not one continuous piece. **Max run length is per the manufacturer specification for a single 48V DC feed. UL Class 2 max run is based on a 96 W Class 2 power supply. Running length is based on voltage drop testing with a 0.3m (0.98ft) cable. ***Silicone products maintain ≤3 SDCM within a production run and <5 SDCM between production runs.

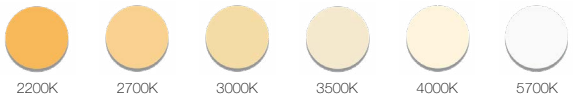
ULTRALONG LIGHTSTRIP 2XL: SILICONE - 48V

Indoor & Outdoor Rated Linear Flex Profile - Static Whites

COMPLEXITY, SIMPLIFIED.

B

LED COLORS



FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS - 2.74W/FT (9W/M)

COLOR	LED COUNT	1 CONNECTOR FULL/DYNAMIC*	2 CONNECTORS FULL/DYNAMIC*	UL CLASS 2 MAX RUN**	FIXTURE COLOR TOLERANCE***	WAVELENGTH/ CCT	LED CRI	LED COLOR TOLERANCE	LUMEN COUNT	LEGACY ORDER CODE
2200K	15 LEDs/ft (48 LEDs/m)	311.7ft (95m) / N/A	N/A	35.04ft (10.68m)	<3 SDCM	2238 ± 82K	80	N/A	204lm/ft (670lm/m)	UF20IW92WE22K48DC
2700K	15 LEDs/ft (48 LEDs/m)	311.7ft (95m) / N/A	N/A	35.04ft (10.68m)	<3 SDCM	2725 ± 115K	80	N/A	204lm/ft (670lm/m)	UF20IW92WE27K48DC
3000K	15 LEDs/ft (48 LEDs/m)	311.7ft (95m) / N/A	N/A	35.04ft (10.68m)	<3 SDCM	3045 ± 140K	80	N/A	204lm/ft (670lm/m)	UF20IW92WE30K48DC
3500K	15 LEDs/ft (48 LEDs/m)	311.7ft (95m) / N/A	N/A	35.04ft (10.68m)	<3 SDCM	3465 ± 170K	80	N/A	213lm/ft (700lm/m)	UF20IW92WE35K48DC
4000K	15 LEDs/ft (48 LEDs/m)	311.7ft (95m) / N/A	N/A	35.04ft (10.68m)	<3 SDCM	3985 ± 225K	80	N/A	213lm/ft (700lm/m)	UF20IW92WE40K48DC
5700K	15 LEDs/ft (48 LEDs/m)	311.7ft (95m) / N/A	N/A	35.04ft (10.68m)	<3 SDCM	5665 ± 355K	80	N/A	213lm/ft (700lm/m)	UF20IW92WE57K48DC

*Max run of 492.1ft (150m) is a single-feed joined run of 65.62ft (20m) pieces (20m x 7 + 10m x 1), not one continuous piece. **Max run length is per the manufacturer specification for a single 48V DC feed. UL Class 2 max run is based on a 96 W Class 2 power supply. Running length is based on voltage drop testing with a 0.3m (0.98ft) cable. ***Silicone products maintain ≤3 SDCM within a production run and <5 SDCM between production runs.

FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS - 3.66W/FT (12W/M)

COLOR	LED COUNT	1 CONNECTOR FULL/DYNAMIC*	2 CONNECTORS FULL/DYNAMIC*	UL CLASS 2 MAX RUN**	FIXTURE COLOR TOLERANCE***	WAVELENGTH/ CCT	LED CRI	LED COLOR TOLERANCE	LUMEN COUNT	LEGACY ORDER CODE
2200K	22 LEDs/ft (72 LEDs/m)	262.5ft (80m) / N/A	N/A	26.23ft (7.99m)	<3 SDCM	2238 ± 82K	80	N/A	277lm/ft (910lm/m)	UF20IW122WE22K48DC
2700K	22 LEDs/ft (72 LEDs/m)	262.5ft (80m) / N/A	N/A	26.23ft (7.99m)	<3 SDCM	2725 ± 115K	80	N/A	277lm/ft (910lm/m)	UF20IW122WE27K48DC
3000K	22 LEDs/ft (72 LEDs/m)	262.5ft (80m) / N/A	N/A	26.23ft (7.99m)	<3 SDCM	3045 ± 140K	80	N/A	277lm/ft (910lm/m)	UF20IW122WE30K48DC
3500K	22 LEDs/ft (72 LEDs/m)	262.5ft (80m) / N/A	N/A	26.23ft (7.99m)	<3 SDCM	3465 ± 170K	80	N/A	290lm/ft (950lm/m)	UF20IW122WE35K48DC
4000K	22 LEDs/ft (72 LEDs/m)	262.5ft (80m) / N/A	N/A	26.23ft (7.99m)	<3 SDCM	3985 ± 225K	80	N/A	290lm/ft (950lm/m)	UF20IW122WE40K48DC
5700K	22 LEDs/ft (72 LEDs/m)	262.5ft (80m) / N/A	N/A	26.23ft (7.99m)	<3 SDCM	5665 ± 355K	80	N/A	290lm/ft (950lm/m)	UF20IW122WE57K48DC

*Max run of 426.5ft (130m) is a single-feed joined run of 65.62ft (20m) pieces (20m x 6 + 10m x 1), not one continuous piece. **Max run length is per the manufacturer specification for a single 48V DC feed. UL Class 2 max run is based on a 96 W Class 2 power supply. Running length is based on voltage drop testing with a 0.3m (0.98ft) cable. ***Silicone products maintain ≤3 SDCM within a production run and <5 SDCM between production runs.

ULTRALONG LIGHTSTRIP 2XL: SILICONE - 48V

Indoor & Outdoor Rated Linear Flex Profile - Static Whites

COMPLEXITY, SIMPLIFIED.

C

POWER & VOLTAGE

S = 0.61W/FT (2W/M)

COLOR	VOLTAGE + CIRCUIT TYPE*	POWER CONSUMPTION
2200K	48V DC CR	0.61W/ft (2W/m)
2700K		
3000K		
3500K		
4000K		
5700K		

C = 1.82W/FT (6W/M)

COLOR	VOLTAGE + CIRCUIT TYPE*	POWER CONSUMPTION
2200K	48V DC CR	1.82W/ft (6W/m)
2700K		
3000K		
3500K		
4000K		
5700K		

E = 2.74W/FT (9W/M)

COLOR	VOLTAGE + CIRCUIT TYPE*	POWER CONSUMPTION
2200K	48V DC CR	2.74W/ft (9W/m)
2700K		
3000K		
3500K		
4000K		
5700K		

G = 3.66W/FT (12W/M)

COLOR	VOLTAGE + CIRCUIT TYPE*	POWER CONSUMPTION
2200K	48V DC CR	3.66W/ft (12W/m)
2700K		
3000K		
3500K		
4000K		
5700K		

*The Current Regulated (CR) integrated circuit extends max run length. Use a 48V DC constant voltage (CV) power supply only. A constant current (CR) power supply may cause damage.

D

CUTTING INSTRUCTIONS

S = 0.61W/FT (2W/M) + C = 1.82W/FT (6W/M) + E = 2.74W/FT (9W/M)

COLOR	ORDER UNIT (CUTTING UNIT)
2200K	9.84in (250mm) (12 LEDs)
2700K	
3000K	
3500K	
4000K	
5700K	

G = 3.66W/FT (12W/M)

COLOR	ORDER UNIT (CUTTING UNIT)
2200K	6.56in (166.67mm) (12 LEDs)
2700K	
3000K	
3500K	
4000K	
5700K	

ULTRALONG LIGHTSTRIP 2XL: SILICONE - 48V

Indoor & Outdoor Rated Linear Flex Profile - Static Whites

COMPLEXITY, SIMPLIFIED.

E

COMPATIBLE CONNECTORS

INPUT - 01

P	2		A		
PROFILE	BENDING	WIRING	INPUT CONNECTOR TYPE	INPUT ORIENTATION + TYPE	INPUT CABLE LENGTH (LEAD WIRE)

OUTPUT - 02

P	2		A		
PROFILE	BENDING	WIRING	OUTPUT CONNECTOR TYPE	OUTPUT ORIENTATION + TYPE	OUTPUT CABLE LENGTH (LEAD WIRE)
P = LightStrip 2XL	2 = Top	1 = 2 Wire (Static) 0 = N/A (End Cap)	A = 48V Silicone Seamless	A = End Exit I = End Cap	1 = 0.98ft (0.3m) 2 = 3.28ft (1m) 3 = 9.84ft (3m) 8 = N/A

LEGACY CONNECTOR ORDER CODE

SS	20I	1	00	XX	SE	X	XX	XXX	X
PRODUCT TYPE	PROFILE	BENDING	LIGHT EMITTING	FUNCTIONALITY	CONNECTOR TYPE	FIXTURE END	EXIT TYPE	LENGTH	
SS = Factory Accessories	21J = LightStrip 2XL	2 = Top	00 = 20I	2W = Static 0W = For End Cap	SE = Seamless	1 = Input Side 2 = Output Side 0 = Jumpers/T-feeds/ Seamless Bottom/ Seamless End 3 = Input/Output	EN = End EC = End Cap	0M3 = 0.98ft (30cm) 01M = 3.28ft (1m) 03M = 9.84ft (3m)) 000 = For End Cap	P = Power or For End Cap S = Signal & Power

ULTRALONG LIGHTSTRIP 2XL: SILICONE - 48V

Indoor & Outdoor Rated Linear Flex Profile - Static Whites

COMPLEXITY, SIMPLIFIED.

E

48V SILICONE SEAMLESS CONNECTOR



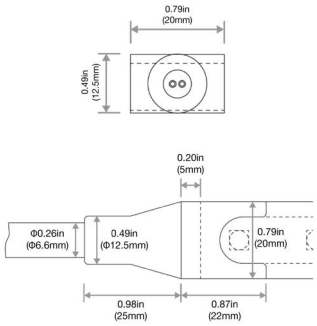


NOTES:
1. Connector Tolerance ±0.02in (0.5mm)
2. Cable diameter: Static = 0.26in (6.6mm)
3. Do not apply force to the feed cable
4. Ensure Max. Cable Lengths are followed according to wire gage to avoid voltage drop

IP68; seamless; precise low profile dimension; high grade quality silicone & anti-wicking ferrule. Recommended for; wet environments; custom predetermined lengths; high/ low temperatures; increased humidity; direct UV exposure; harsh working conditions & increased handling forces during installation. Precision milling and special glue Silicone liquid injection-moulded workmanship enables an almost consistent size between connectors and lightbody, and the transparent terminal of the connector allows the seamless effects spliced end by end. DryWire technology applied on the cable eliminates the capillary phenomenon through wires, which secured the long-term reliability in outdoor or any wet environments. Custom factory assembly.

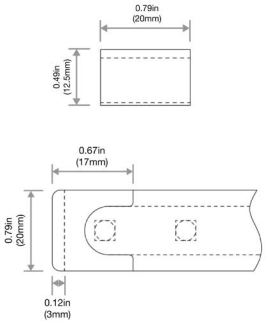
END EXIT: P21AA#





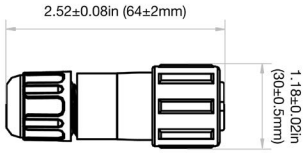
END CAP: P20AI8





SCREW LOCK CONNECTOR ACCESSORY - IP67

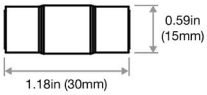


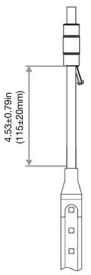


NOTE: The tolerance is ±0.08in (2mm).

ANTI-WICKING FERRULE:







NOTES:
1. The anti-wicking ferrule is located at 4.53in (115mm) (±0.79in [±20mm] tolerance) from the connector on the cable. For protection against water ingress.
2. The removal of anti-wicking ferrule will void the warranty if any water ingression caused by it.

ULTRALONG LIGHTSTRIP 2XL: SILICONE - 48V

Indoor & Outdoor Rated Linear Flex Profile - Static Whites

COMPLEXITY, SIMPLIFIED.

F

MOUNTING PROFILES

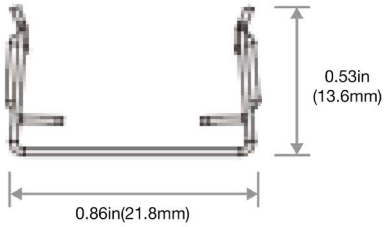
	3	p	1	2
MOUNTING PROFILE TYPE	STANDARD LENGTH	PROFILE	COLOR	BEND
S5 = Stainless Steel-Track-Screw S6 = Stainless Steel-Track-Strap	3 = 19.68in (500mm)	P = LightStrip 2XL	1 = Standard	2 = Top

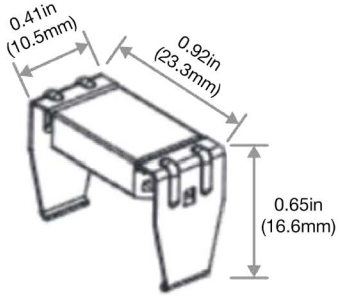
STAINLESS STEEL - TRACK

High-quality 6063 aluminum with thin-wall, light-weight design. Includes a serated silicone grip insert designed to hold fixture with additional force. Recommended on projects mounted upside down. It is deformation and rust resistant, and cost-effective. Please refer to install manual for proper installation practices.









ORDER CODE	LEGACY CODE	STANDARD LENGTH	FASTENER TYPE
S53P12	CH21FAP0M5SC	19.68in (500mm)	Screws
S63P12	CH21FAP0M5ST	19.68in (500mm)	Straps

ULTRALONG LIGHTSTRIP 2XL: SILICONE - 48V

Indoor & Outdoor Rated Linear Flex Profile - Static Whites

COMPLEXITY, SIMPLIFIED.

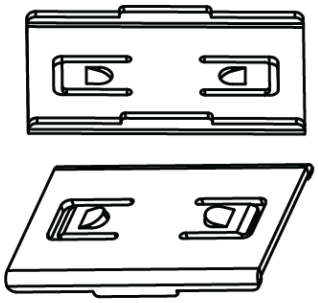
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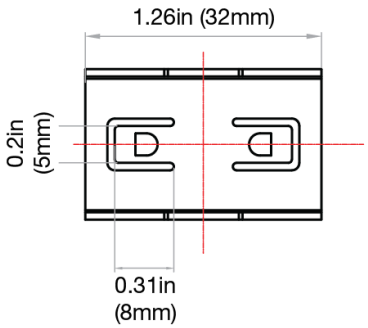
MOUNTING ACCESSORIES

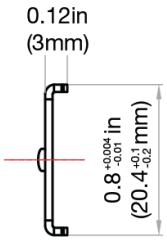
	P
MOUNTING ACCESSORY TYPE	PROFILE
MSF = Alignment Bracket - Stainless Steel	P = LightStrip 2XL
MFC = Fixing Clip - Stainless Steel	
MFS = Strap - Stainless Steel	
MMS = Mining Suspended Wire Kit	

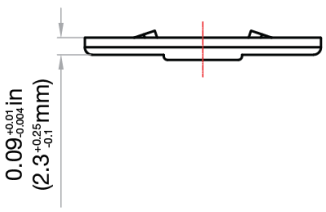
ALIGNMENT BRACKET - STAINLESS STEEL: MSF

Stainless Steel-Track





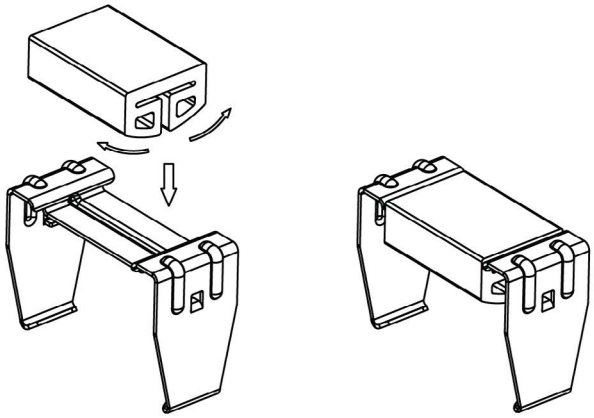


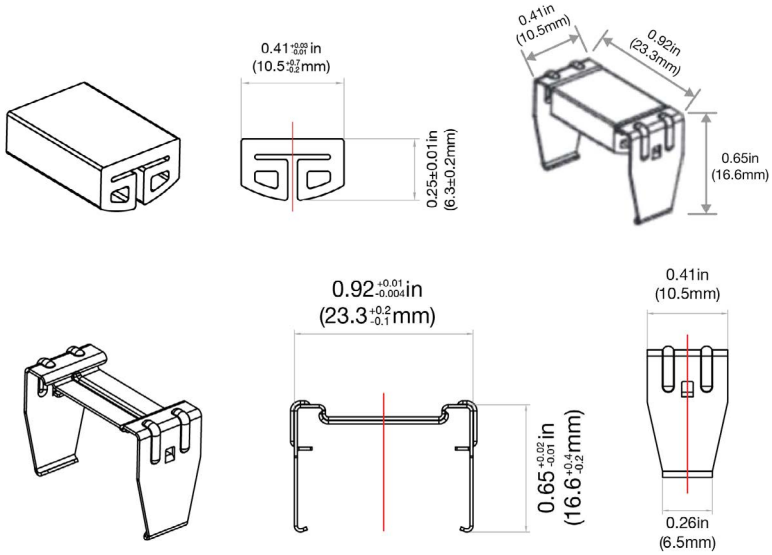


G

FIXING CLIP - STAINLESS STEEL: MFC

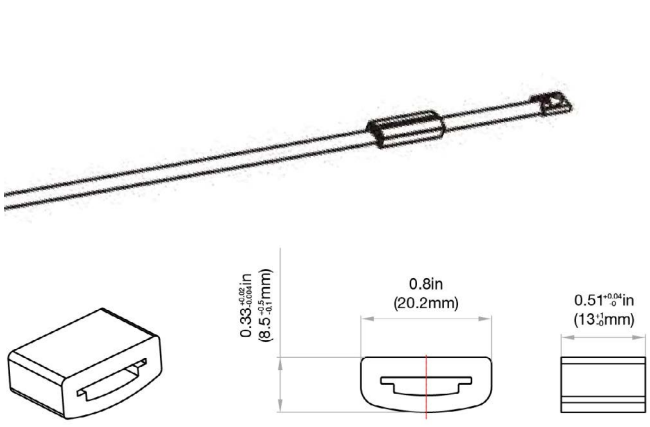
Stainless Steel-Track

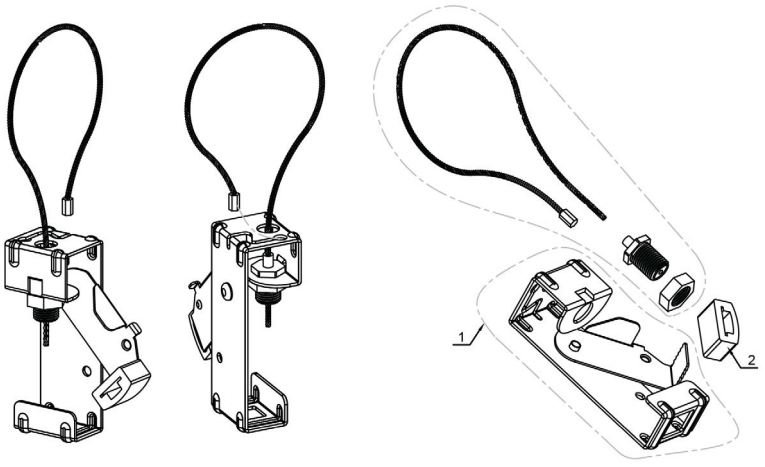




STRAP - STAINLESS STEEL: MFS

Stainless Steel-Track





G

MINING SUSPENDED WIRE KIT: MMS

Stainless Steel-Track



