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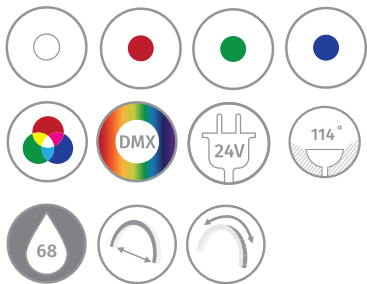
Project:

EVERNEON

Freedom Series

Everylite Datasheet Ver 4.0

Revision Date 01/2025



EverNeon Freedom Series Specification

Vertical Bending

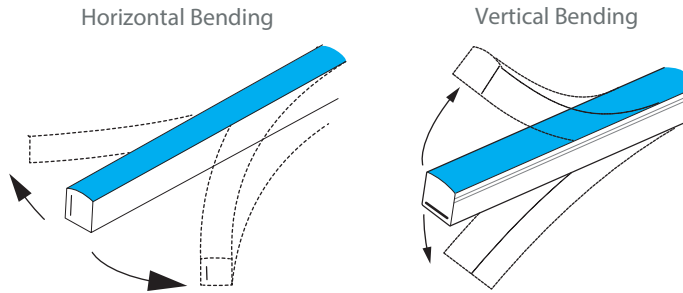
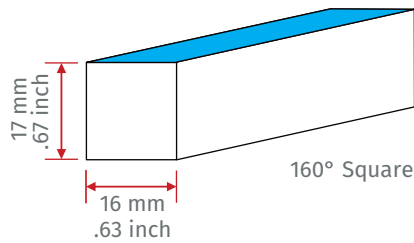
Item #	Wave Length	LED Color	Surface Color	Min. Cutting Length	Luminous Flux/Ft	Power Consumption	Working Voltage	IP Rating	Min. Bend Diameter	LED Spacing	Max. Single Power Feed	Max. Double Power Feed
EN-FDM-W3-SV-24	3000K	White	White	2.19"	172 lm/ft	4W/ft	24 VDC	IP68	11.81"	0.36"	30'	60'
EN-FDM-W4-SV-24	4000K	White	White	2.19"	177 lm/ft	4W/ft	24 VDC	IP68	11.81"	0.36"	30'	60'
EN-FDM-W6-SV-24	5700K	White	White	2.19"	177 lm/ft	4W/ft	24 VDC	IP68	11.81"	0.36"	30'	60'
EN-FDM-RW-SV-24	630nm	Red	Red	3.28"	56 lm/ft	3W/ft	24 VDC	IP68	11.81"	0.36"	30'	60'
EN-FDM-GW-SV-24	530nm	Green	Green	2.19"	168 lm/ft	4W/ft	24 VDC	IP68	11.81"	0.36"	30'	60'
EN-FDM-BW-SV-24	475nm	Blue	Blue	2.19"	37 lm/ft	4W/ft	24 VDC	IP68	11.81"	0.36"	30'	60'
EN-FDM-FX-SV-24	-	RGB	White	3.28"	-	4W/ft	24 VDC	IP68	11.81"	0.36"	30'	60'
EN-FDM-FW-SV-24	-	RGBW	White	3.28"	-	4.6W/ft	24 VDC	IP68	11.81"	0.36"	25'	50'
EN-FDM-FWD-SV-24	-	RGBW DMX	White	6.56"	-	4W/ft	24 VDC	IP68	11.81"	0.36"	20'	40'

Horizontal Bending

Item #	Wave Length	LED Color	Surface Color	Min. Cutting Length	Luminous Flux/Ft	Power Consumption	Working Voltage	IP Rating	Min. Bend Diameter	LED Spacing	Max. Single Power Feed	Max. Double Power Feed
EN-FDM-W3-SH-24	3000K	White	White	2.19"	143 lm/ft	4W/ft	24 VDC	IP68	11.81"	0.36"	30'	60'
EN-FDM-W4-SH-24	4000K	White	White	2.19"	146 lm/ft	4W/ft	24 VDC	IP68	11.81"	0.36"	30'	60'
EN-FDM-W6-SH-24	5700K	White	White	2.19"	146 lm/ft	4W/ft	24 VDC	IP68	11.81"	0.36"	30'	60'
EN-FDM-RW-SH-24	630nm	Red	Red	3.28"	50 lm/ft	3W/ft	24 VDC	IP68	11.81"	0.36"	30'	60'
EN-FDM-GW-SH-24	530nm	Green	Green	2.19"	137 lm/ft	4W/ft	24 VDC	IP68	11.81"	0.36"	30'	60'
EN-FDM-BW-SH-24	475nm	Blue	Blue	2.19"	34 lm/ft	4W/ft	24 VDC	IP68	11.81"	0.36"	30'	60'
EN-FDM-FX-SH-24	-	RGB	White	3.28"	-	4W/ft	24 VDC	IP68	11.81"	0.36"	30'	60'
EN-FDM-FW-SH-24	-	RGBW	White	3.28"	-	4.6W/ft	24 VDC	IP68	11.81"	0.36"	25'	50'
EN-FDM-FWD-SH-24	-	RGBW DMX	White	6.56"	-	4W/ft	24 VDC	IP68	11.81"	0.36"	20'	40'

Note: It is recommended to limit to single feed length for easier installation.

Drawing



Testing

	Testing Organization	Certificate Serial N°	Report Reference
UL 2108	UL	20180801-E360029	E360029-20130322
CE-EMC	SGS	SZEM1712012372LMV	SZEM171201237201

Fixture Testing

Optical Testing

Spectrum Analysis	IES LM 79 (Lumen, CCT, CRI, XY, SDCM, wavelength)
Photometric Distribution	IES LM 73 (lumen intensity distribution & Lux diagram)
Lumen Maintenance & Lifetime	IES LM84 & IES TM28

Temperature Testing

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

Durability Testing

Bending Test	Manufacturer-defined, 500 cycles
Swing Test	UL2388, >750 cycles
Tensile Test	Manufacturer-defined, > the weight of light in max. connection length double feed
Twist Test	Max connection length double feed Manufacturer-defined, >200 cycles
Ball Impact	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
IK07 IK08	IEC62262

Environmental Testing

Chlorinated Water Immersion	BG9667, PH6.8-7.6, free chlorine 0.3-0.6mg/L
Salt Water Immersion	IEC60598-1, Salinity 4%
Salt Spray Test	IEC68-2-11
Outdoor Exposure	Manufacturer-defined
Flame Resistance	UL94
UV Exposure	ASTMG 154, ISO 4892-3, UVA@340nm
IPX5 IPX6 IPX7 IPX8	IEC60529
Temperature Shock	Manufacturer-defined, -40°C -60°C (typical temperature range)
Constant Temperature	Manufacturer-defined

Accessories

Single injection mold (IP67)

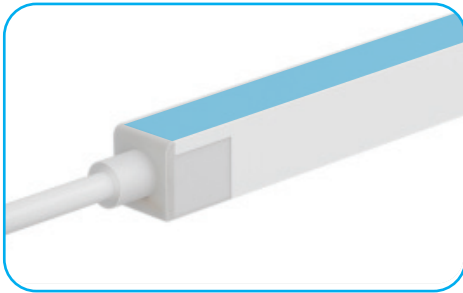
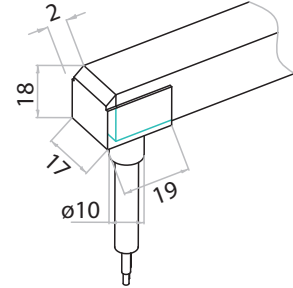
Dimensions: mm

Front connector



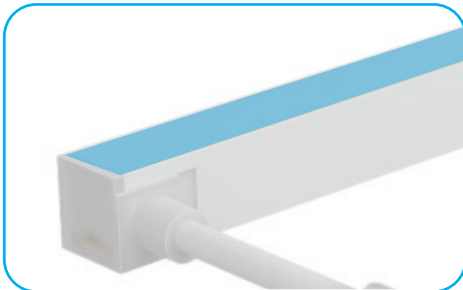
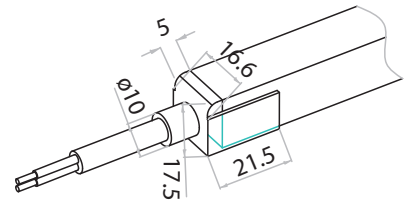
Bottom feed

EN-FC-SI-XB



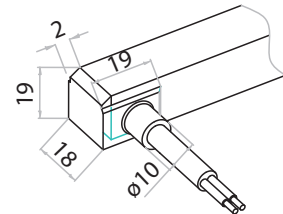
Front feed

EN-FC-SI-XF

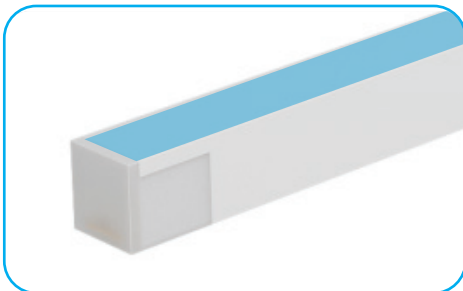


Side feed

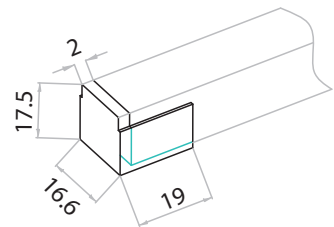
EN-FC-SI-XS



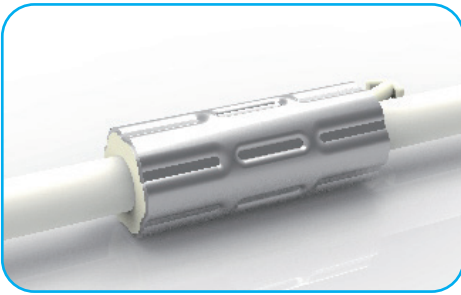
End Cap



EN-EC-SI

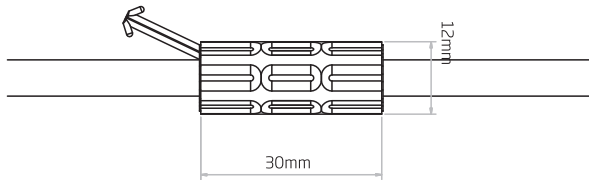


Accessories

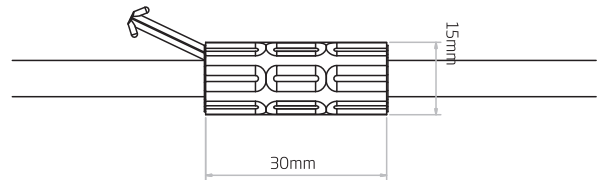


Waterproof ring

This specially engineered waterproofing ring come standard mounted on the power leads to prevent water-intrusion through the cable.



Single Color



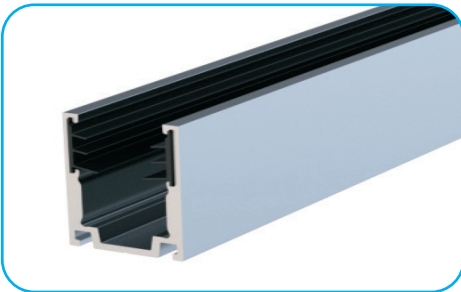
RGB



RGBW



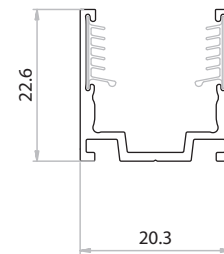
DMX



Locking u-channel

The locking version of the standard mounting track brings peace of mind to installations where having a secure fit was a concern.

Comes in 1 inch and 40 in length



Tolerance: $\pm 0.3\text{mm}$

Dimensions: mm

