

Flexible Lighting System

Xenon Lamp Technology

LINEAR LIGHTING

COVE

DISPLAY

UNDERCOUNTER

CABINET



Xentflex

Xenon Lamp Technology

LINEAR LIGHTING

XENFLEX™ is a UL listed, low voltage, low profile linear lighting system.

Xenon gas-filled lamps match or exceed the specification of halogen systems without any handling or usage restrictions.

At 15,000+ hrs, XENFLEX offers the longest lamp life in the industry.

Features

- **LAMP LIFE**
15,000+ hours
- **CRI: 100**
- **EFFICIENCY**
Clear lamps—
15 lumens per watt

Frosted lamps—
10 lumens per watt
- **COLOR TEMPERATURE**
2800°K
- **OPERATING VOLTAGE**
24 or 12 volt
- Single lengths to 75'
- 30 ampere capacity
- 12" radius or true angles
- **WET LOCATION**
12 volt only



XENFLEX™

XENFLEX is available in 12 or 24 volt configurations utilizing 5 or 10 watt lamps (frosted or clear), and in 2, 3, 4 and 6 inch socket spacing.

XF-EF End Feed Assembly*

(shown in Red)

The XF-EF End Feed assembly consists of the End Feed Box, Cover and an 8" XF-CP Mounting Strip. XF End Feed is located at one or both ends of a run and includes termination hardware for wire connection. The End Feed Box K.O. accepts 1/2" NP fitting (by others). XF End Feed is required by UL.

XF-CP Mounting Strip*

The XF-CP Mounting Strip is made of white PVC; 8' lengths standard. XENFLEX snaps into XF-CP Mounting Strip. Mounting Strip is predrilled for easy installation and is required by UL.

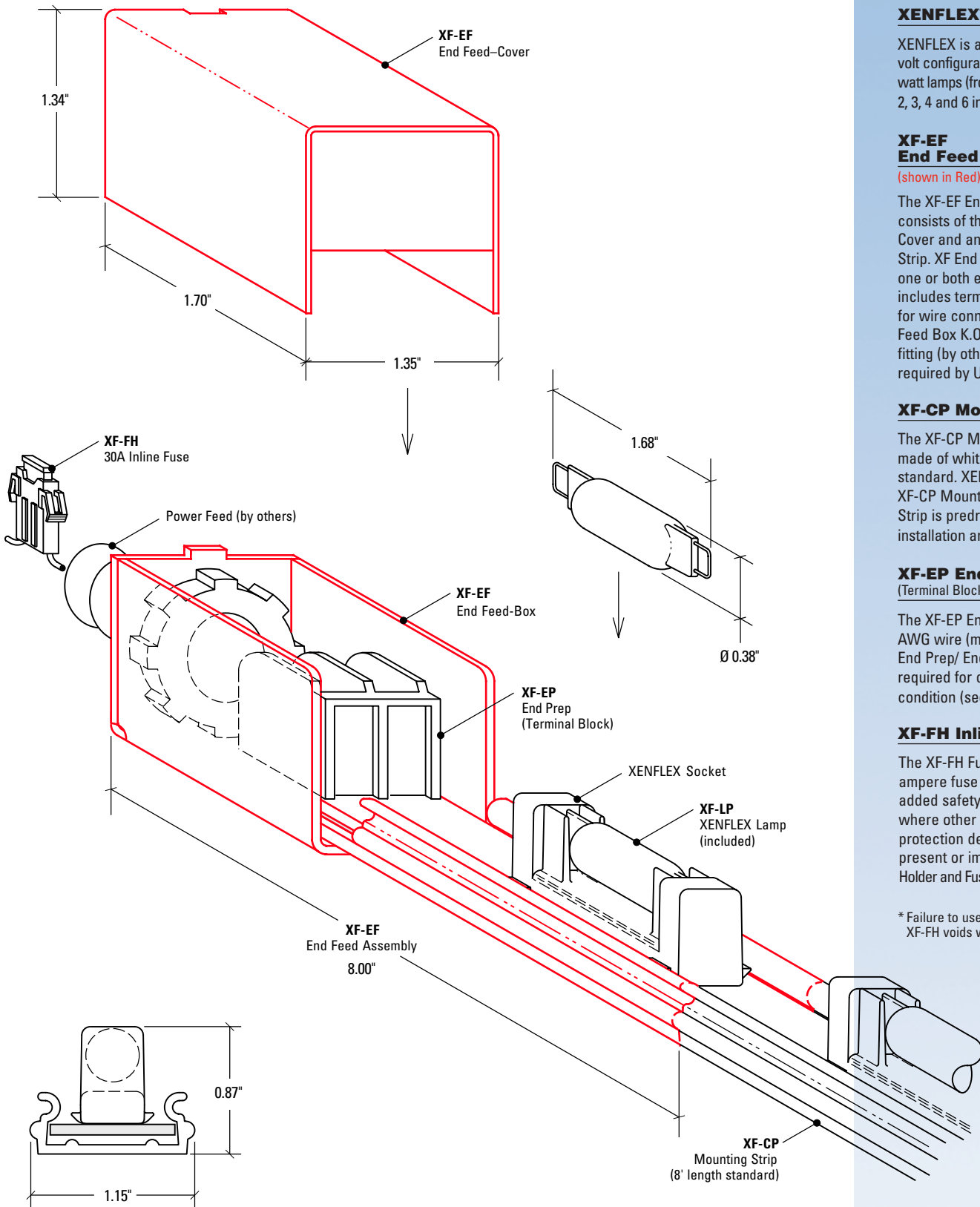
XF-EP End Prep (Terminal Block)

The XF-EP End Prep accepts #10 AWG wire (maximum). Double End Prep/ End Feed may be required for certain installation condition (see page 7).

XF-FH Inline Fuse*

The XF-FH Fuse Holder with 30 ampere fuse standard, provides added safety protection. Used where other over-current protection devices are not present or impractical. Fuse Holder and Fuse are required by UL.

* Failure to use XF-EF, XF-CP and XF-FH voids warranty and UL listing.



XENFLEX Assembly
Crosssection / Scale 1:1

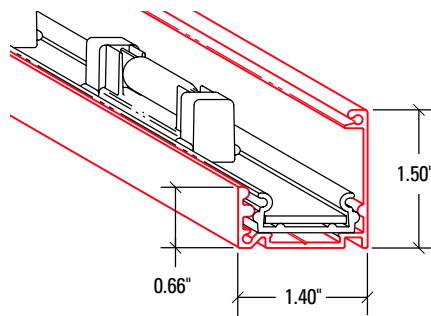
XENFLEX™ is offered with a valance, diffusion lenses and reflectors for precise lighting control.

A complete line of 12 or 24 volt transformers are available.

Optional XENTRAC MR11, MR16 and AR Modules, may be combined with XENFLEX at any location, adding to XENFLEX's adjustable linear and point source capability.

All XENTRAC Module sub-assemblies plug into XENFLEX sockets.

DIMENSIONS



CAT NO

XF-XT

DESCRIPTION

XT Extrusion

The XT Extrusion provides a finished appearance when mounted under cabinets as a “self-cover” lighted molding or in other exposed applications.

- 8’ length standard
- Decorative finishes: White, Chrome and Brass

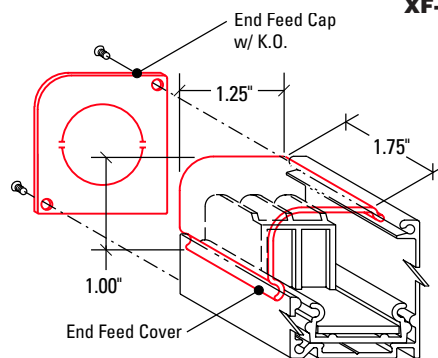
CAT NO

XF-XTEF

DESCRIPTION

XT End Feed

The XT End Feed is designed for use with the XT Extrusion. The XT End Feed consists of the End Feed Cover and the End Feed Cap w/ K.O. For a finished appearance at end of XENFLEX run, an End Cap w/out a K.O. for the XT Extrusion is also included (not shown). The XT End Feed is located at one or both ends of a run and includes termination hardware for wire connection. The End Feed Cap K.O. accepts 1/2” NP fitting. The XT End Feed is required by UL.



CAT NO

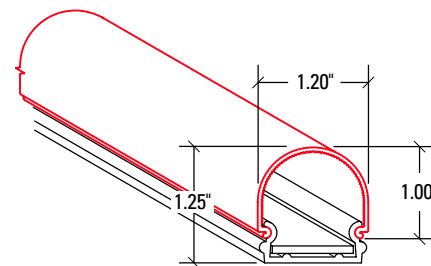
XF-L

DESCRIPTION

XF Lens

The XF Lens snaps into XF-CP Mounting Strip for protection and a finished appearance when XENFLEX strip is visible. Continuous polycarbonate cover is ribbed to provide improved light control. For use with 5 watt lamps only.

- 8’ length standard
- Individual lamp lenses for use with 10 watt lamps.



CAT NO

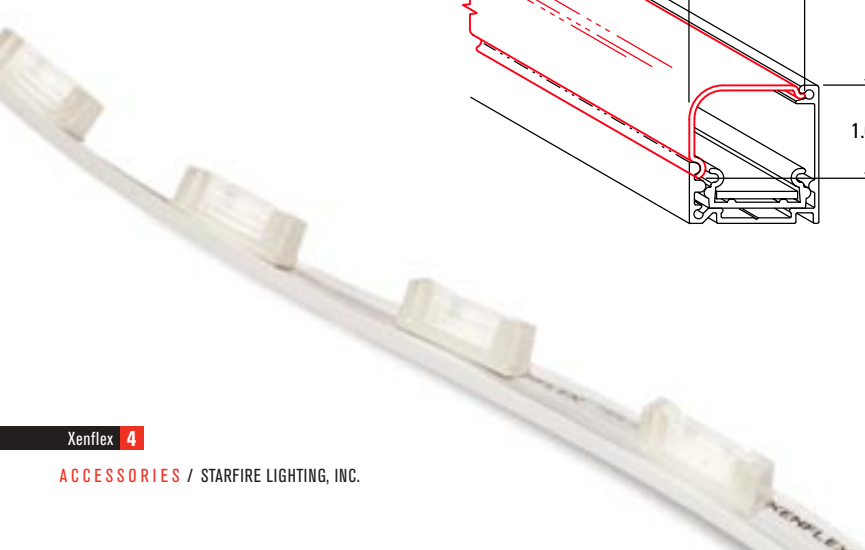
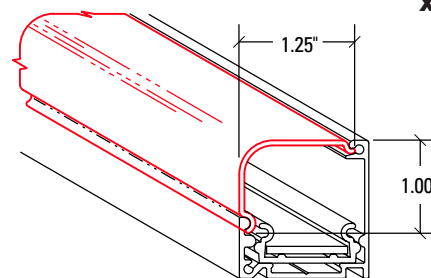
XF-XTL

DESCRIPTION

XT Lens

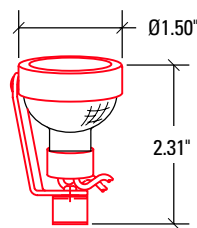
The XT Lens snaps into XT Extrusion for protection and a finished appearance when XT Extrusion is visible. Continuous polycarbonate cover is ribbed to provide improved light control. For use with 5 watt lamps only.

- 8’ length standard
- Individual lamp lenses for use with 10 watt lamps



Xentrac Modules

DIMENSIONS



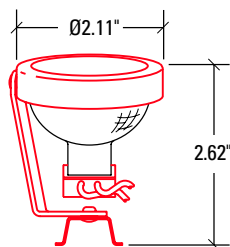
CAT NO DESCRIPTION

XF-MR11 MR11 Module

The MR11 Module provides a compact Tungsten Halogen light source in a versatile and fully adjustable fixture. MR11 Modules are available with a variety of glass covers (clear, diffused, ribbed lenses and color filters) and micro louvers, providing added safety, light control and glare reduction.

- 12 volt only
- 20 and 35 watt configurations in spot, medium and flood beam spreads

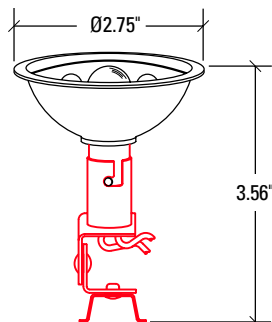
XF-MR16 MR16 Module



The MR16 Module provides a compact Tungsten Halogen light source in a versatile and fully adjustable fixture. MR16 Modules are available with a variety of glass covers (clear, diffused, ribbed lenses and color filters) and micro louvers, providing added safety, light control and glare reduction.

- 12 volt–20, 35 and 50 watt configurations in spot, medium and flood beam spreads
- 24 volt–20, 35 and 50 watt configurations in spot and flood beam spreads

XF-AR AR Module (Typical Osram Sylvania lamp shown)

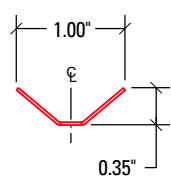


The AR Module provides a compact Tungsten Halogen light source in a versatile and fully adjustable fixture. Aluminized Reflector lamps have a bayonet base. Lamp is adjustable 355° around vertical axis and pivots 45° either side of vertical axis.

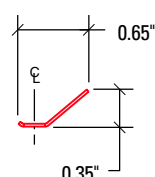
- 12 volt only
- 20 and 50 watt configurations in spot, medium and flood beam spreads

Reflectors

Symmetric



Asymmetric

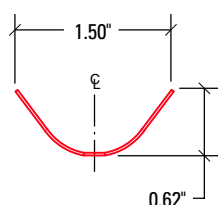


**XF-SY
XF-AS**

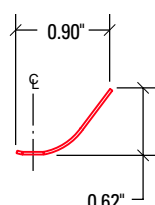
The Symmetric and Asymmetric Reflectors provide lighting control, increased output and snap easily into XENFLEX sockets.

- Not for use with XF Lens

Parabolic



Half Parabolic



**XF-PAR
XF-HPR**

The Parabolic and Half Parabolic Reflectors provides controlled linear beam spread and snap easily into XENFLEX sockets.

- Not for use with XF Lens, XT Lens and XT Extrusion

Extrusion

XF-XTW	White
XF-XTC	Chrome
XF-XTB	Brass

Lenses

5 watt Lamps only

XF-L	for XF-CP
XF-XTL	for XF-XT

Xentrac Modules

Lamps not included

XF-MR11	12 volt
XF-MR16	12 or 24 volt
XF-AR	12 volt

Reflectors

XF-SYW	White Symmetric
XF-SYB	Brass Symmetric
XF-ASW	White Asymmetric
XF-ASB	Brass Asymmetric
XF-PAR	Chrome Parabolic
XF-HPR	Half Chrome Parabolic

Xenflex Lamps

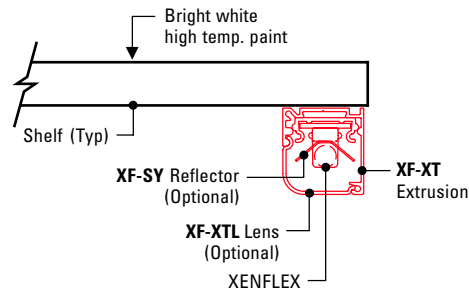
Clear	12 or 24 volt
XF-LP5	5 watt
XF-LP10	10 watt
Frosted	12 or 24 volt
XF-LP5F	5 watt
XF-LP10F	10 watt

XENFLEX™ may be field trimmed and formed into curves and angles.

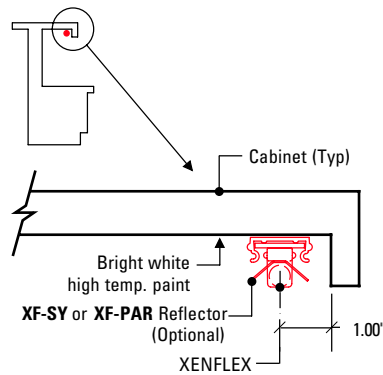
XENFLEX is dimmable and requires the use of a compatible low voltage magnetic dimmer.

Integrate XENTRAC MR and AR Modules with XENFLEX Xenon lamps on a common raceway, as a solution to unobtrusive task and linear illumination.

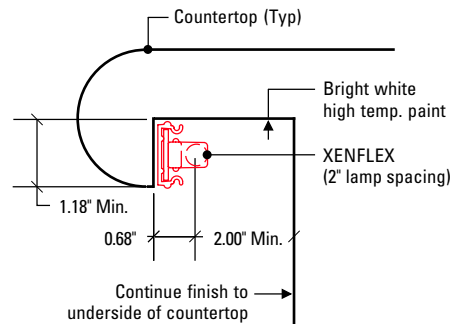
Shelf Light Lensed / Unlensed



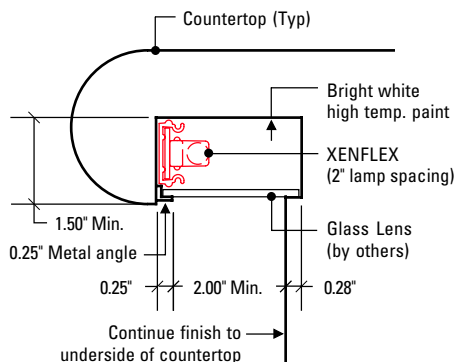
Work Station Light



Undercounter Light



Undercounter Light Lensed



- Fixture should be shielded and special care taken when positioning XENFLEX so that glare is eliminated.
- Lensing is useful for controlling glare in addition to the use of low gloss material in counter top construction to minimize reflectance. IES standard calls for between 20–50 footcandles for non critical tasks and 50–100 footcandles for critical tasks.

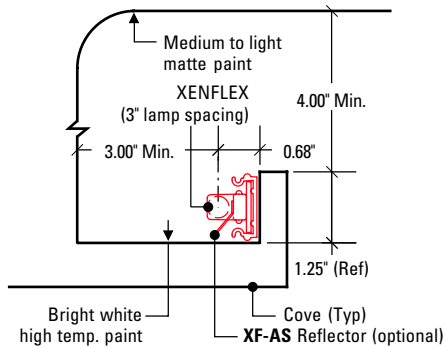


Cabinet Lighting
Courtesy of Feincraft, Inc., Morristown, NJ

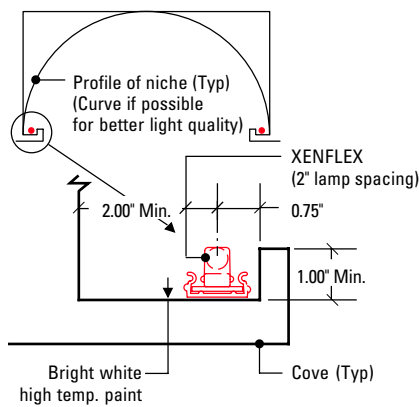


Under Cabinet Lighting
Courtesy of Feincraft, Inc., Morristown, NJ

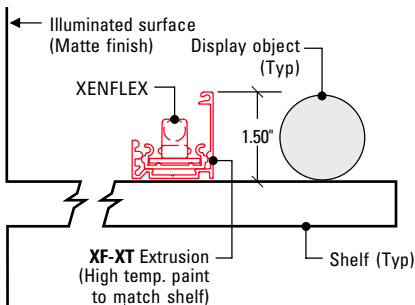
Cove Light



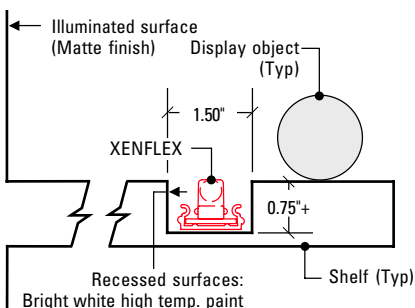
Niche Light



Surface Mounted Backlight



Recessed Backlight



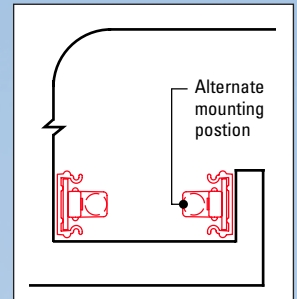
- XENFLEX allows the construction of niches or coves less than four inches.
- Proper placement of XENFLEX in the cove opening is the determining factor for optimizing light output, critical for successful cove lighting.
- Install XENFLEX close to the "daylight opening" or aperture of the cove, just beyond the line of sight. To ensure scallop free illumination, lamp spacing should be less than the distance to the visible surface.
- When properly installed, XENFLEX effectively directs all light to the ceiling providing soft and uniform illumination with understated punch and emphasis.



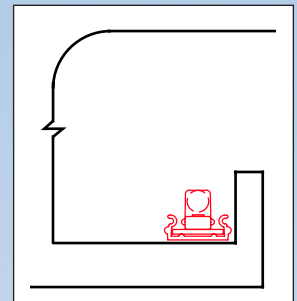
Cove Lighting
 Mr. K's Restaurant, NY, NY

- XENFLEX used as a backlighting source effectively utilizes its unobtrusive low profile, in addition to providing an efficient homogenous background of light.
- The mass of an object is an important consideration in properly lighting a 3-dimensional subject. Shadows can be effectively manipulated, providing effective contrast between strong and weak light sources. This can be accomplished by combining XENFLEX as a backlight source with effective positioning of spots from one side and a flood light from the other.

Curvable

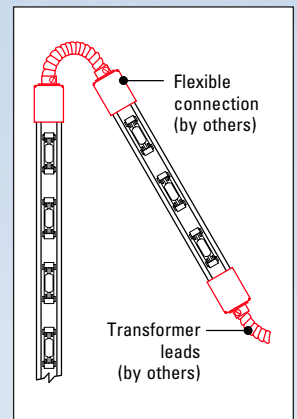


Non-Curvable



Double End Prep/End Feed

Radius Curves



Flexible from 0° – 135° on a horizontal or vertical plane.

Refer to Data Tables on page 8 for length and wattage limits.

Specifications

LINEAR LIGHTING

Options

Extrusion

XF-XTW	White
XF-XTC	Chrome
XF-XTB	Brass

Lenses

5 watt Lamps only

XF-L	for XF-CP
XF-XTL	for XF-XT

Xentrac Modules

Lamps not included

XF-MR11	12 volt	20, 35 watt	Spot, Med, Flood
XF-MR16	12 volt	20, 35, 50 watt	Spot, Med, Flood
	24 volt	20, 35, 50 watt	Spot, Flood
XF-AR	12 volt	20, 50 watt	Spot, Med, Flood

Reflectors

XF-SYW	White Symmetric
XF-SYB	Brass Symmetric
XF-ASW	White Asymmetric
XF-ASB	Brass Asymmetric
XF-PAR	Chrome Parabolic
XF-HPR	Half Chrome Parabolic

Xenfex Lamps

Clear	12 or 24 volt
XF-LP5	5 watt
XF-LP10	10 watt
Frosted	12 or 24 volt
XF-LP5F	5 watt
XF-LP10F	10 watt

Typical Specification Number

XF	—	3	—	5F	—	120	—	24
XENFLEX		SPACING		WATTAGE		FIX LENGTH		VOLTAGE

Ordering Guide

XENFLEX	SPACING	WATTAGE	FIX LENGTH	VOLTAGE
XF	2" 3" 4" 6"	5 (Clear) 10 (Clear) 5F (Frosted) 10F (Frosted)	Specify overall length in inches	24 (Std) 12

Data Table

LAMP WATTAGE	SPACING	MAX LENGTH		WATTS Per FT	LUMENS Per FT
		24V	12V		
5	2"	20'	10'	30	300
	3"	30'	15'	20	200
	4"	40'	20'	15	150
	6"	60'	30'	10	100
10	2"	10'	5'	60	900
	3"	15'	7.5'	40	600
	4"	20'	10'	30	450
	6"	30'	15'	20	300

Transformer Table

CAT NO	WATTAGE	WEIGHT	DIMENSIONS (LxWxD)
XTR-75	75	7 Lbs	8.75" x 4.25" x 3.75"
XTR-100	100	8 Lbs	8.75" x 4.25" x 3.75"
XTR-150	150	8 Lbs	8.75" x 4.25" x 3.75"
XTR-300	300	11 Lbs	8.75" x 4.25" x 3.75"
XTR-600	600	18 Lbs	9.50" x 5.25" x 4.75"
XTR-900	900	26 Lbs	10.50" x 6" x 5.50"
XTR-1200	1200	28 Lbs	10.50" x 6" x 5.50"

Wire Gauge / Length Table

VOLTAGE	WATTAGE	#10 AWG	#12 AWG	#14 AWG	#18 AWG
24	100	80'	50'	35'	15'
	200	60'	35'	20'	5'
	300	40'	25'	15'	5'
	400	30'	15'	10'	—
	500	20'	15'	5'	—
	600	20'	10'	5'	—
	700	15'	10'	5'	—
12	100	30'	15'	10'	—
	200	15'	10'	5'	—
	300	10'	5'	—	—
	400	5'	—	—	—
	500	5'	—	—	—
	600	5'	—	—	—
	700	—	—	—	—

NOTES:

- XENFLEX is available in 12 or 24 volt. If not specified, 24 volt is standard.
- XENFLEX is available per foot only—always round up to the next foot.
- XF-CP, XF-XT, XF-L & XF-XTL are available in 8' lengths only.
- XENFLEX requires the use of XF-CP, XF-EF and XF-FH for UL listing and warranty.
- For custom spacing—consult factory.

WHEN SPECIFYING XENFLEX CONSIDER THE FOLLOWING:

- For scallop-free illumination, ensure that lamp spacing is less than the distance to the visible surface.
- Illumination requirements; refer to DATA TABLE.
- Identify lengths required. If any individual length exceeds the Max. length limits in the DATA TABLE, divide into multiple XENFLEX sections.
- One End Feed is required for each individual XENFLEX section.
- Determine total wattage in each XENFLEX section by using the Watts/Ft. Column in the DATA TABLE.
- Determine transformer locations.
- Select a transformer with sufficient capacity from the TRANSFORMER TABLE.
- A single transformer may power several XENFLEX strips.
- Use WIRE GAUGE TABLE for determining proper feed wire gauge.