



Flex 12™ Trac System

Easily field curved to express a limitless variety of designs

JUNO®

Juno® Flex 12™ Trac System

Flex 12's unique track construction combines a flexible insulating core that separates two flat aluminum conductors.

Key Features:

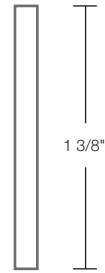
- Attractive satin aluminum finish
- Can be used in straight sections or field curved
- 25-amp capacity (12V or 24V) for long, economical runs up to 600 watts per circuit
- Available in 4' and 8' lengths
- Connectors that electrically and/or mechanically join track sections into longer runs



Flex 12™ Trac Sections

Low voltage track sections consisting of flexible, insulating center and conductive aluminum skin. Can be field cut and curved (see back page). 25-amp capacity.

Dimensions



Series	Description	Finish
TF 4FT	4' Track (Actual Length 48")	SL Silver
TF 8FT	8' Track (Actual Length 96")	SL Silver



End Cover



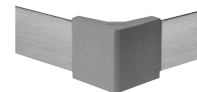
Optional vinyl-dipped sleeve protects end of trac. One End Cover per package.
TF30 SL

Connectors



Straight Connector

Electrically and/or mechanically joins two sections of trac. 25-amp capacity.
TF23 SL



Right Angle (90°) Connector

Electrically and/or mechanically joins two sections of trac at right angle (90°). 25-amp capacity. **TF24 SL**

Close-to-Ceiling Feed and Mini-Support Cylinders

Low profile electrical feed cylinder and mechanical mini-support cylinder. Spaces trac 2 1/4" from mounting surface. One electrical feed per circuit is required. Best suited for use in rigid ceiling applications.



Low Profile Electrical Feed Cylinder

With integral outlet box cover. 25-amp capacity. 5" diameter.
TF31 SL



Low Profile Mechanical Mini-Support Cylinder

With integral micro-canopy. Secures to mounting surface with toggle bolt (supplied) or 10-24 headless hanger screw (not supplied). 1 1/4" diameter. **TF32 SL**

Monopoints

For mounting over standard ceiling outlet boxes. Accepts all Flex 12™ spotlights and decorative pendants.



Monopoint with Transformer


With integral 12-volt, 50VA electronic transformer. 5" diameter. **TF540 SL**



Monopoint

For use with remote mounted transformer. 5" diameter.
TF40 SL

See specification sheets for recommended mounting spacings.



Flex 12™ fixtures simply push up onto the track and lock into position with a screw-on cap. Fixtures can be repositioned or added as needed.

Designed for simple, trouble-free installation, the electrical feed cylinder features a self-locating wiring channel and integral screw terminal connections suitable for up to 10 gauge solid wire. The heavy gauge contacts ensure a permanent, positive electrical connection to the trac. Feed and support cylinders can be installed prior to inserting the track, further simplifying installation.

Ceiling Suspended and Wall Mounts



Pendant Stem Electrical Feed

Canopy and stem assembly mounts over a standard ceiling outlet box that is wired to the transformer secondary.

Specify:
(1) TF90 or (1) TF91
and
(1) TFPS
(1) TF21

Flexible Electrical Feed Mechanical Support

Canopy with flexible 10 gauge wire mounts over a standard ceiling outlet box that is wired to the transformer secondary.

Specify:
(1) TF950
(1) TF21

Pendant Stem Mechanical Support

Flex 12™ can be mechanically suspended from the ceiling at non-feed points from a mini-canopy using pendant stems.

Specify:
(1) TF92*
(1) TFPS
(1) TF22

Wire Cable Mechanical Support

Steel wire cable mounting offers the most elegant means of supporting Flex 12™ trac. Ideal for track patterns, it can be easily adjusted to a precise mounting height and has the least prominent mounting hardware. Recommended for patterns only.

Specify:
(1) TF34

Threaded Rod Mechanical Support

Flex 12™ can also be mechanically suspended from the ceiling at non-feed points using commonly available 10-24 threaded rod (supplied by others). This method offers the most economical installation and less conspicuous mounting hardware.

Specify:
(1) TF93
(1) TF33

Suspended Mount Electrical Feeds



Electrical Feed Cylinder (25-amp capacity)

Used to mechanically support and electrically feed power to the track. One electrical feed circuit is required. For use with pendant stems. **TF21 SL**



Flexible Feed Kit

Canopy supplied with 60" or 144" of 10 gauge stranded tandem wire. Allows electrical feed location to be placed independently of mechanical supports. Can be mounted over 4" ceiling outlet boxes or used in conjunction with Flex 12™ surface transformers. Requires TF21 Electrical Feed Cylinder (order separately). 25-amp capacity. 4¾" diameter.

TF950 60IN SL 60" Feed Wire
TF950 144IN SL 144" Feed Wire

Mechanical Support Cylinders



Mechanical Support Cylinder

Mechanical Support Cylinder less electrical contacts. **TF22 SL**



Threaded Rod Mini-Support Cylinder

Mini-support cylinder with threaded insert for supporting Flex 12™ trac using 10-24 threaded rod (not supplied). Provides mechanical support only. Designed to be used in conjunction with the TF93 Mini-Canopy. **TF33 SL**



Wire Cable Mini-Support Cylinder and Mini-Canopy

Steel wire cable mounting system for mechanical support of Flex 12™ Trac. Supplied with all mounting hardware, including mini-support cylinder, 48" or 144" steel cable, cable glider and mini-canopy for ceiling attachment. Secures to ceiling with toggle bolt (supplied) or wood screw. Other cable lengths available – consult factory.

TF34 48IN SL 48" Cable
TF34 144IN SL 144" Cable

See specification sheets for recommended mounting spacings.

* If mounting on grid, order R37D or R37F T-bar attachment clip.

Canopies & Pendant Stems



Large Canopies

Used in conjunction with pendant stems for electrical feed and mechanical support of track. 4 3/4" diameter.

Canopy for T-Bar Ceilings

Mounts onto T-bar runner and can be fed via flexible metal conduit or non-metallic cable entering into the top of the ceiling mounting plate. **TF90 SL**

Canopy for Rigid Ceilings

Mounts over standard ceiling outlet boxes. **TF91 SL**



Mini-Canopies

Used in conjunction with pendant stems or 10-24 threaded rod (not supplied) for mechanical support of trac. Secures to ceiling with toggle bolt (supplied), wood screw or optional T-bar attachment clip. 2 1/4" diameter. Versions include:

- TF92 SL** Mini-Canopy for Pendant Stems
- TF93 SL** Mini-Canopy for 10-24 Threaded Rod
- R37F** T-bar Attachment Clip*
- R37D** T-bar Attachment Clip with Space for Ceilings Using Dropped Tiles*

*T-Bar clips must be ordered separately.



Sloped Ceiling Adapter

Permits pendant stems to be hung vertically from sloped ceilings. Used in conjunction with Rigid Ceiling or Pendant Stem Ceiling Canopies (not included). Allows feeding of wires to track at up to a 60 degree angle. Accommodates a maximum of two 12 gauge solid THHN copper wires. 20-amp capacity. **T94 SL**

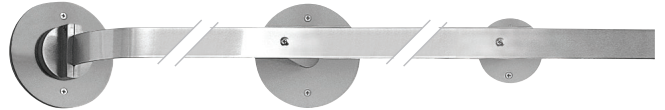


Pendant Stems

Threaded top and bottom permit attachment at the top to canopy assemblies, and at the bottom to electrical feed/support cylinders. Inside diameter accommodates two 10 gauge solid THHN copper wires.

- TFPS 3IN SL** 3 1/2" Stem
- TFPS 12IN SL** 12" Stem
- TFPS 18IN SL** 18" Stem
- TFPS 24IN SL** 24" Stem
- TFPS 36IN SL** 36" Stem
- TFPS 48IN SL** 48" Stem

T96 SL Pendant Stem Coupling



Wall/Feed Mechanical Support

Flex 12™ may be mechanically supported perpendicular to the wall and electrically fed through a wall-mounted outlet box that is wired to the transformer secondary.

Specify:
(1) TF45 SL

Wall/Feed Mechanical Support

Flex 12™ may be mounted parallel to the wall and electrically fed when installed over a wall-mounted outlet box that is wired to the transformer secondary.

Specify:
(1) TF530 SL or (1) TF529 SL

Wall Mount Electrical Feeds & Mechanical Supports



Wall Feed/Support Canopy

Electrically feeds and/or mechanically supports the trac perpendicular to wall. Mounts directly to wall or over standard 4" outlet boxes. 25-amp capacity. 5" diameter. **TF45 SL**



Outrigger Electrical Feed and Mechanical Support

Used to mechanically support and electrically feed power to the track in a parallel to wall installation. Extends 5 1/2" from wall. One electrical feed outrigger per circuit is required.

Electrical Feed Outrigger

25-amp capacity. Mounts over standard 4" wall outlet boxes. 5" diameter. **TF529 SL**

Mechanical Support Outrigger

Canopy fastens to wall with toggle bolts (supplied) or wood screws. 3" diameter. **TF530 SL**

Flex 12™ Transformers



Specify:
(1) TF6150E or (1) TF6300
and
(1) TFPS
(1) TF21

Specify:
(1) TF6150E or (1) TF6300
and
(2) TFPS
(1) TF22

Specify:
(1) TF6150E or (1) TF6300
and
(1) TF950
(1) TF21

Universal Surface Mount Transformers



Designed to mount over standard 4" ceiling outlet boxes, this versatile design can be used with a single pendant stem to support/feed one end of a track run or with two pendant stems to support/feed up to a 4' track section. May also be used with a Flexible Feed Kit to create a non-rigid floating feed, independent of mechanical support of the track.

Series	Output Voltage	Total Wattage	Number of Circuits/Wattage Per Circuit	Recommended Wattage Range Per Circuit	Dimensions
TF6150E SL*	12V	150 Watts	1 / 150 watts	50-150 watts	3"H x 12" Diameter
Electronic surface mount transformer with automatic resetting overload and short-circuit protection. Should be mounted within 5' of trac. 120VAC input.					
TF6300E SL**	12V	300 Watts	1 / 300 watts	150-300 watts	3"H x 12" Diameter
Magnetic toroidal surface mount transformer with resettable circuit breaker. 120VAC input.					

Remote Magnetic Transformers



Remote mount magnetic transformers are designed to be installed in remote locations such as basements, attics, plenums and electrical closets. The location must be accessible and well ventilated with ambient temperatures below 140-degrees Fahrenheit. 12-volt transformers are the most popular due to the wide selection and availability of 12-volt MR11 & MR16 lamps. 24-volt transformers double the wattage capacity vs. a 12-volt system, allowing twice as many fixtures to be installed per 25-amp circuit. All magnetic transformers have resettable magnetic circuit breakers and dual-tap standard/boost primary input leads to adjust for voltage drop. 120VAC input.†

Series	Output Voltage	Total Wattage	Number of Circuits/Wattage Per Circuit	Recommended Wattage Range Per Circuit	Dimensions
MAGXFMR 1C 300W 120 12AC BL**	12V	300 Watts	1 / 300 watts	150-300 watts	10 ⁵ / ₈ "H x 4 ³ / ₈ "W x 4 ¹ / ₄ "D
MAGXFMR 2C 600W 120 12AC BL**	12V	600 Watts	2 / 300 watts	150-300 watts	11 ³ / ₈ "H x 5 ³ / ₈ "W x 5 ¹ / ₈ "D
MAGXFMR 1C 600W 120 24AC BL**	24V	600 Watts	1 / 600 watts	300-600 watts	11 ³ / ₈ "H x 5 ³ / ₈ "W x 5 ¹ / ₈ "D
MAGXFMR 2C 1200W 120 24AC BL**	24V	1200 Watts	2 / 600 watts	300-600 watts	12 ³ / ₈ "H x 6 ¹ / ₈ "W x 5 ⁷ / ₈ "D






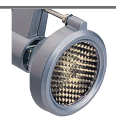


* For best results, use dimmer designed for use with electronic transformers.

** For best results, use dimmer designed for use with magnetic transformers.

† 277-volt transformers are available. Consult factory.

Light Control Accessories

A complete range of light control accessories to custom tailor effects:

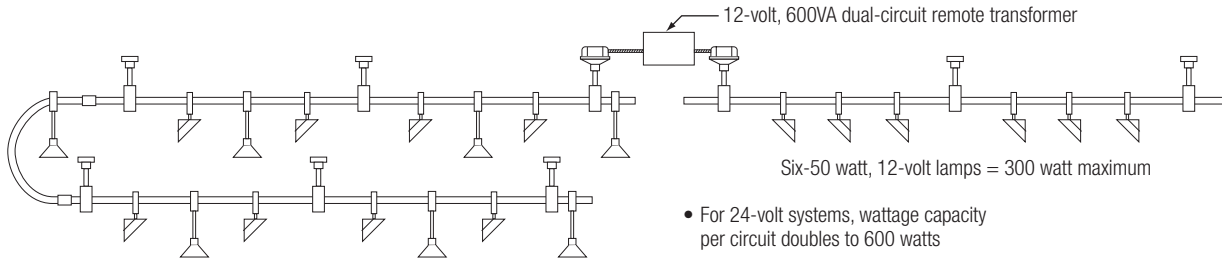
		Lens/Louver Diameter					
		1 3/4"	Compatible With	2"	Compatible With		
Accessory Holders Required for listed fixtures. Accepts one filter, lens, and louver except where noted.				T7400BL T7400SA Accepts up to 2 Accessories	TF130, TF301		
Light Control Lenses These alter the light distribution of a given lamp, enlarging or elongating it, softening the beam edge or removing striations.			Light Control Lenses Uniformity Lens Diffusion Lens Prismatic Lens Linear Spread Lens	TF160, TF165 TF196, TFG116, TFP116	SOLITE 200 DIFF 200 PRISM 200 LSPREAD 200	TF140* and fixtures with T7400 Accessory Holder	
UV Filters These museum quality lenses filter out ultraviolet radiation below 400 nanometers to protect fade sensitive art and objects.			UV Filter UVF 175	TF160, TF165 TF196, TFG116, TFP116	UVF 200	TF140* and fixtures with T7400 Accessory Holder	
Dichroic Color Correction Filters Color Correction Filters correct the light, either to warm it up to approximate incandescent, or cool it down to approximate daylight.			Color Correction Filters Halogen-to-Incandescent, 2700K Halogen-to-Daylight, 4250K	DCCF 175 HAL2700 DCCF 175 HL4250	TF160, TF165 TF196, TFG116, TFP116 DCCF 200 HAL2700 DCCF 200 HL4250	TF140* and fixtures with T7400 Accessory Holder	
Color Filters These change white light into colored light and are available in colored glass and more efficient/saturated dichroic filters.			Colored Glass Filters Medium Pink Warm Red Daylight Blue Medium Blue Medium Amber Medium Green	CGF 175 MPINK CGF 175 MBLU CGF 175 MAMB	TF160, TF165 TF196, TFG116, TFP116 CGF 200 MPINK CGF 200 WRED CGF 200 DLTBLUE CGF 200 MBLU CGF 200 MAMB CGF 200 MGRN	TF140* and fixtures with T7400 Accessory Holder	
			Dichroic Glass Filters Red Medium Green Medium Blue Yellow Magenta Blue Green (Cyan)	DGF 175 DRED DGF 175 MGRN DGF 175 MBLU DGF 175 DYEL DGF 175 MAGEN DGF 175 CYAN	TF160, TF165 TF196, TFG116, TFP116 DGF 200 DRED DGF 200 MGRN DGF 200 MBLU DGF 200 DYEL DGF 200 MAGEN DGF 200 CYAN	TF140* and fixtures with T7400 Accessory Holder	
Louvers Hexcell and cube cell louvers reduce perceived fixture brightness.			Hexcell Louvers HCLBL 175	TF160, TF165 TF196, TFG116, TFP116	HCLBL 200	TF140* and fixtures with T7400 Accessory Holder	
Snoot These extend lamp shielding and can reduce spill light in the edge of a beam pattern.			Snoot HCLBL 138	TFG116, TFP116			
Barn Doors These create a theatrical look and allow control of the spill light coming off of a lamp.			Barn Doors Does not require separate accessory holder except where noted	T74BL 175	TFG116, TFP116	T7470BL 200 Also requires T7400 Accessory Holder	TF130, TF301

*Simultaneously accepts any combination of up to two filters, lenses or louver.

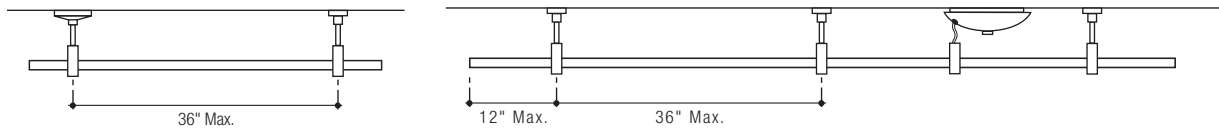
Typical Flex 12™ Layouts

Flex 12™ provides a vast amount of design flexibility, limited primarily by one's imagination. The following examples provide some basic ideas for layouts as well as guidelines that should be applied to any installation.

Typical Electrical Layout

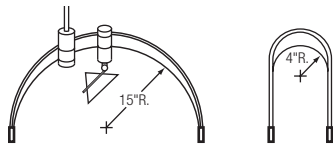


Straight Runs



For a straight 4' track installation, two supports suffice. For a straight 8' track installation, three supports are required. (Note: In applications where a large number of track lampholders are to be employed, more supports, more closely spaced, may be required.)

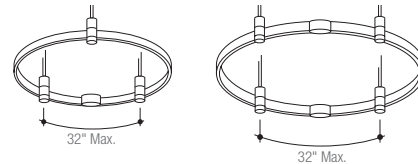
Minimum Bending Radii



The track can be bent to a minimum radius of 15" and still successfully receive Feed Cylinders, Support Cylinders and track lampholders.

The track can be bent as tightly as a 4" radius for design purposes but loses the ability to be safely fed with power or receive lampholders. If uncertain about a desired layout, please contact the factory.

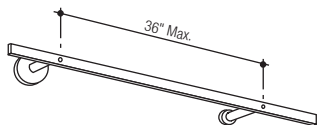
Circles



A perfect circle can be made using an 8' section of track supported at three points 32" apart. This results in a 30.5" diameter circle.

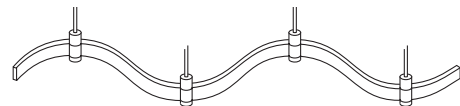
Larger circles can be made by joining multiple track sections, as long as supports are no greater than 32" apart.

Outriggers



Outriggers should be spaced no greater than 36" apart. (In applications where a large number of track lampholders are to be employed, more tightly spaced outriggers may be required.)

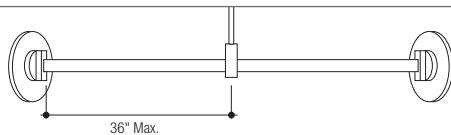
Waveforms



For sinusoidal wave forms, it is recommended that the supports be located at the "peaks" of the wave form for greater track stability.

Track is field-bendable by hand or plywood form. Use of a full-size paper template is recommended.

Wall Feed



When using a wall feed, the maximum free span of track before a Feed Cylinder or Support Cylinder is employed is 36".



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