

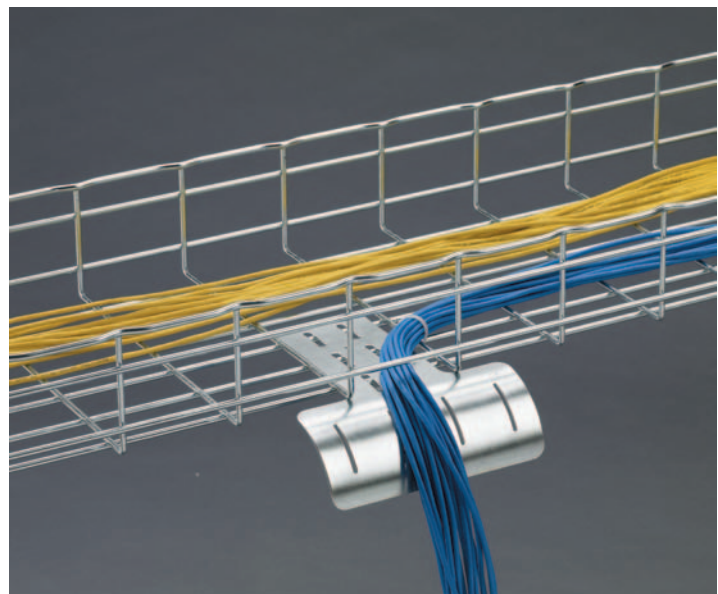
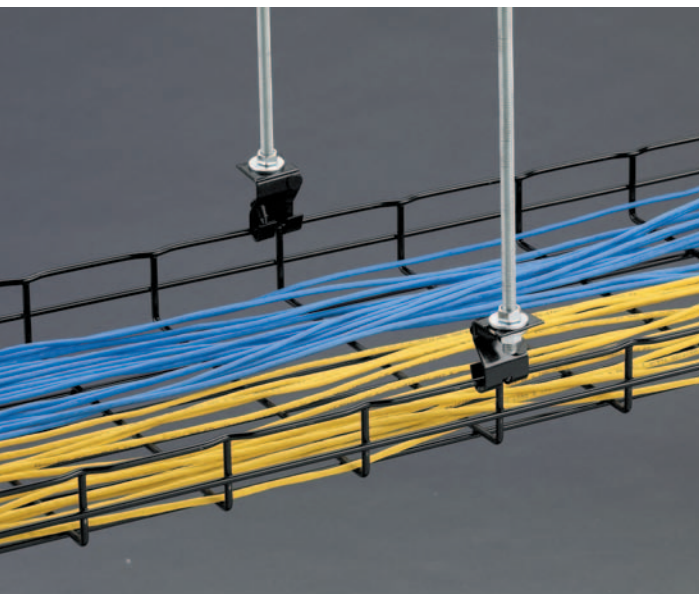
FLEXTRAY™

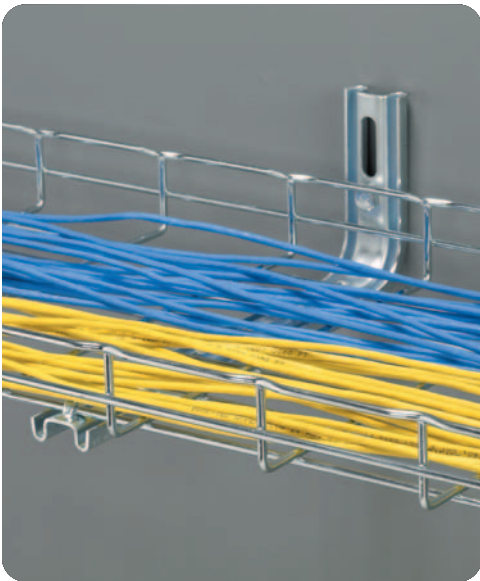
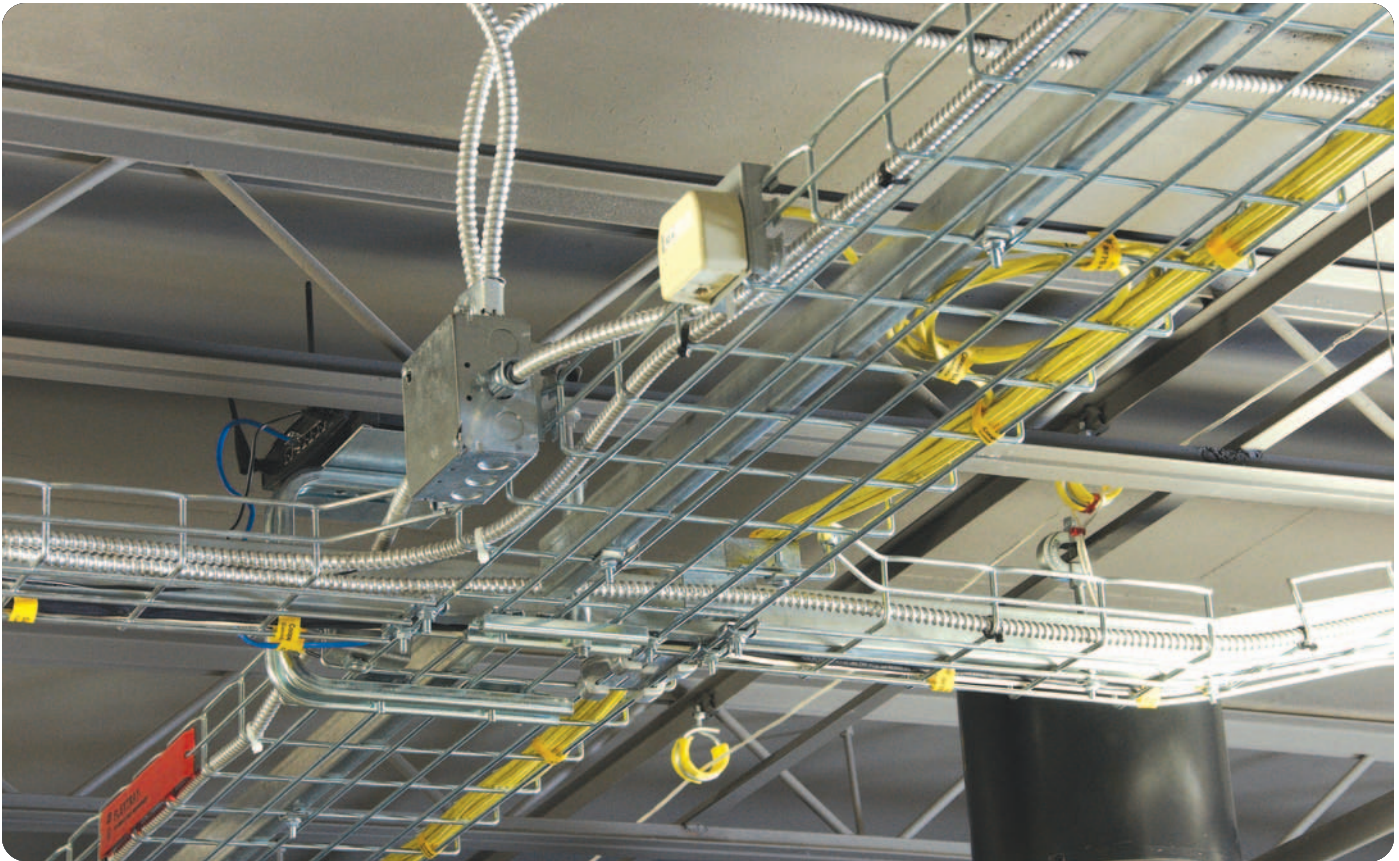
It's Simple Cable Management

Catalog & Product Installation Guide

CBFT-10

**COOPER** B-Line





Flextray is a flexible, field-adaptable way to manage cables throughout your project. The tray itself can be cut and bent to the needs of the installer on the jobsite, allowing cable runs to be adjusted as needed. The wide range of sizes offered by Cooper B-Line makes Flextray a great choice for everything from a small cable drop to a large trunk of cables. Our tray has the market-preferred "T" weld safety edge, protecting both the cable and the installer during cable installation. Flextray is also UL Classified as an equipment grounding conductor.

The F.A.S.T. System is Foldable, Adjustable, Stackable, and Tool-less, providing many options to manage cables inside your raised floor space. With only a few parts, you can create everything from a basic single layer installation to a cantilevered, multiple-tier cable run. Make the most of your raised floor space and your time with the F.A.S.T. System!

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Finish Information

Flextray Cable Tray and Accessories are available in a wide variety of finishes to meet the environmental or aesthetic requirements of customer installations. Use the list below to find the finish and suffix that will meet your needs.

Available product finishes will be listed on individual pages throughout the catalog.

Finish codes shown in bold type are the standard for that product.

EG Electroplated Zinc Galvanized Finish applied after fabrication
(ZN) Recommended applications: Controlled interior
UL/CSA Classified as an equipment ground conductor when spliced as recommended
ASTM B633 - Average thickness of 0.3 mils (8 microns)

GS Pre-Galvanized Zinc Finish applied before fabrication
(GLV) Recommended applications: Limited industrial & interior
UL/CSA Classified as an equipment ground conductor when spliced as recommended
ASTM A641

BLE Black Powder Coat Finish applied after fabrication
(FB) Recommended applications: Controlled interior
UL/CSA Classified as an equipment ground conductor when coating has been removed at splice contact points
Average paint thickness of 1.2 mils (30 microns) to 3.0 mils (75 microns)

BLO Black Oxide Finish
Recommended applications: Controlled interior
ASTM D769

HD Hot Dip Galvanized Finish applied after fabrication
(HDG) Recommended applications: Exterior, corrosive
UL/CSA Classified as an equipment ground conductor when spliced as recommended
ASTM A123 - Average thickness of 2.4 mils (60 microns) to 3.2 mils (80 microns)

304S 304L Stainless Steel
(SS4) Recommended applications: Food preparation, wash-down areas
ASTM A580

316S 316L Stainless Steel
(SS6) Recommended applications: Highly corrosive applications & marine environments
ASTM A580

Custom Powder Coat Finish applied after fabrication
Recommended applications: Controlled interior
UL/CSA Classified as an equipment ground conductor when coating has been removed at splice contact points
No Specification

Grounding Information

Statement for all UL Classified products:



This product is classified by Underwriters Laboratories, Inc. as to its suitability as an equipment grounding conductor only. 556E



Most sizes of FLEXTRAY are UL Classified to serve as an Equipment Ground Conductor. The ground path can be achieved in one of two ways listed on page 3:

Grounding Information (cont.)

1. Use the recommended quantity of UL Classified splices to connect sections and at places where the tray is cut.
2. Run an appropriately sized ground wire alongside the tray and attach it to each tray section and on both sides of a cut in the tray. (This method is recommended by NEMA VE-2 Installation Manual.)

Load & Fill Chart

Flextray Series Part Number	Size height x width	Support Span / Loading Capacity*				Cable Fill (50% fill)**		
		5'-0"	6'-0"	7'-0"	8'-0"	Actual Area Inside Tray (in ²)	Number of CAT 5e Cables***	Number of CAT 6 Cables***
FT1.5X12	1 1/2" x 12"	29	17	14	11	12.2	176	124
FT2X2	2" x 2"	34	28	24	20	4.3	61	43
FT2X4	2" x 4"	52	43	35	27	8.2	118	83
FT2X6	2" x 6"	66	47	35	27	12.1	175	123
FT2X8	2" x 8"	66	47	35	27	16.1	231	163
FT2X12	2" x 12"	68	47	35	27	23.9	345	243
FT2X16	2" x 16"	68	47	35	27	31.8	459	324
FT2X18	2" x 18"	68	47	35	27	35.8	516	364
FT2X20	2" x 20"	68	47	35	27	39.7	573	404
FT2X24	2" x 24"	68	47	35	27	47.5	686	484
FT2X30	2" x 30"	68	47	35	27	59.8	862	608
FT2X32	2" x 32"	77	53	39	30	63.3	914	645
FT4X4	4" x 4"	58	49	42	36	15.8	227	160
FT4X6	4" x 6"	93	77	60	46	23.6	341	240
FT4X8	4" x 8"	94	78	61	47	31.5	454	321
FT4X12	4" x 12"	119	83	61	47	47.5	686	484
FT4X16	4" x 16"	119	83	61	47	63.5	917	647
FT4X18	4" x 18"	119	83	61	47	71.5	1032	728
FT4X20	4" x 20"	119	83	61	47	79.5	1148	810
FT4X24	4" x 24"	128	89	65	50	95.5	1379	973
FT4X30	4" x 30"	128	89	65	50	119.5	1725	1217
FT6X8	6" x 8"	111	77	57	43	47.3	682	481
FT6X12	6" x 12"	124	86	63	48	71.6	1034	729
FT6X16	6" x 16"	128	89	65	50	95.3	1375	970
FT6X18	6" x 18"	128	89	65	50	107.3	1549	1092
FT6X20	6" x 20"	141	98	72	55	118.9	1716	1211
FT6X24	6" x 24"	154	107	78	60	143.3	2068	1459

* Published load chart has not been tested with Flexmate splice. Please consult the factory for load information when using the Flexmate option.

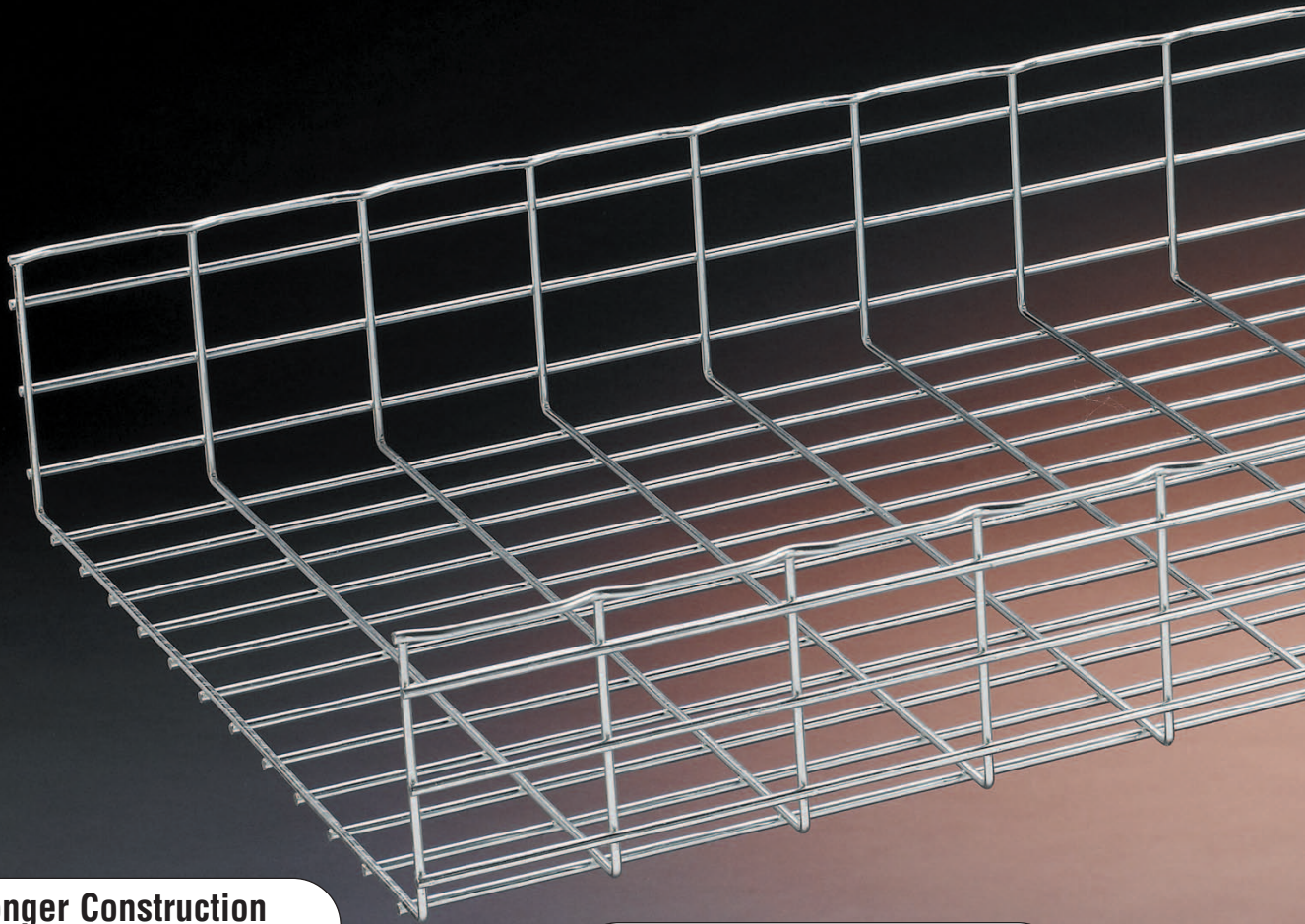
** Flextray fill capacity is based on NEC allowable fill of 50%. The NEC rule requires that the cable cross-sectional areas together may not exceed 50% of the tray area (width x depth = fill). Cables will nearly completely fill the cable tray when reaching the 50% cable fill, due to empty space between the surface of the cables. TIA recommends 40% fill ratio. Flextray loads shown in the loading chart will not be exceeded at 50% fill.

*** CAT 5e 4-pr non-plenum approximated at .21 in. diameter, CAT 6 4-pr non-plenum approximated at .25 in. diameter. Actual diameters vary by cable manufacturer.

FLEXTRAY's design offers you more

Safety Edge

FLEXTRAY offers the "T" weld safety edge, which protects both the cable and the installer while installing cables.



Stronger Construction

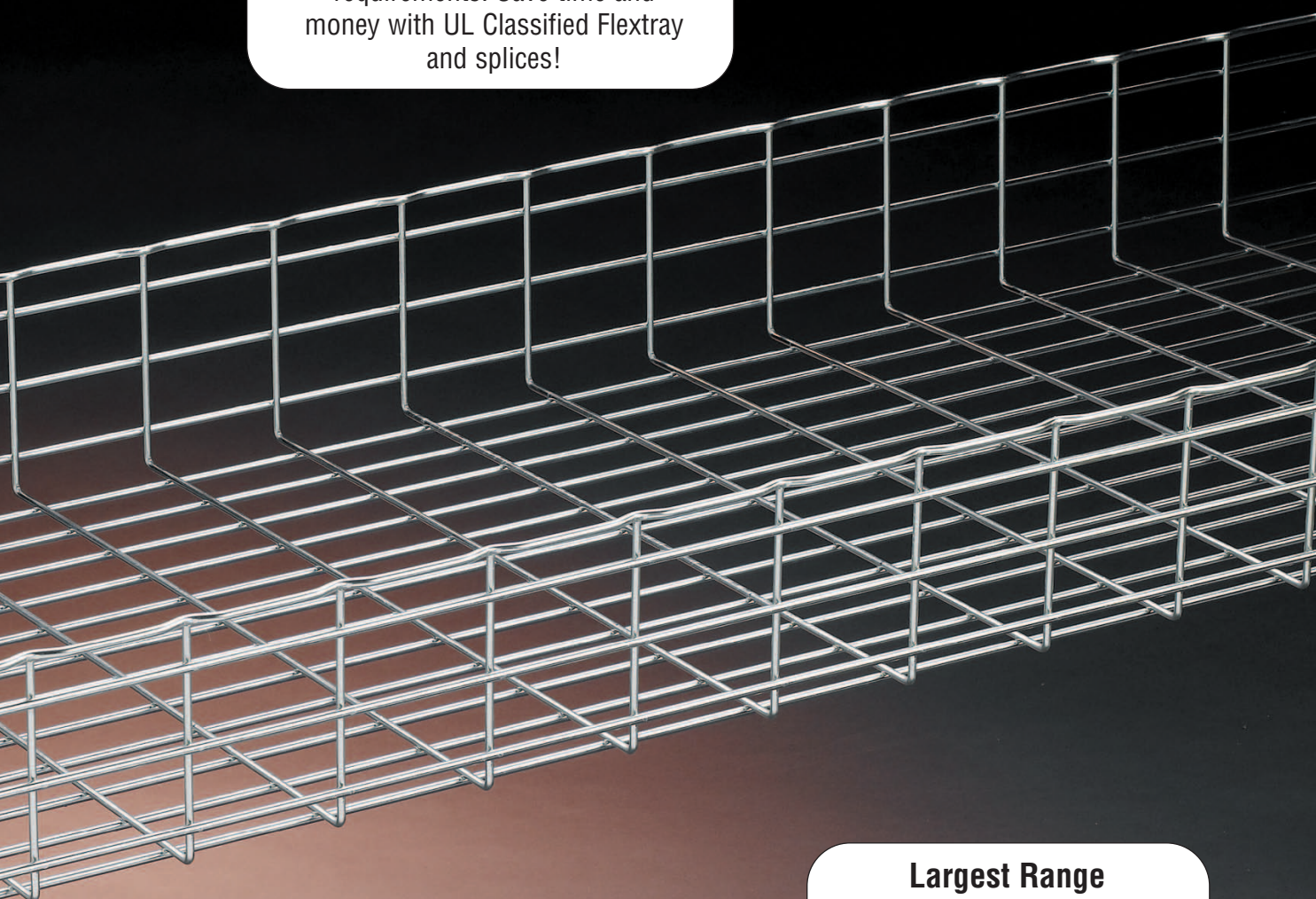
FLEXTRAY utilizes the largest gauge steel in the industry .196" (5mm) diameter minimum. Tray strength is governed by wire size and stronger material means stronger trays.

Clean Smooth Cuts

Only FLEXTRAY delivers the patented Cleanshear® cutting tool providing smooth edges and protecting your cable investment.

Most UL Classified Tray Sizes

FLEXTRAY meets UL grounding requirements. Save time and money with UL Classified Flextray and splices!



Largest Range Of Sizes Available

FLEXTRAY offers depths of 1 1/2" (38mm) to 6" (152mm) and widths up to 32" (813mm).

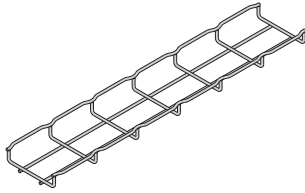
Union Made In The USA

FLEXTRAY is Union made in the U.S.A.

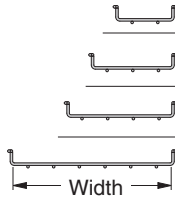
Flextray™ - Straight Sections

Straight Sections

1.5" Deep Flextray



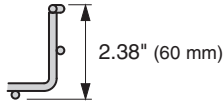
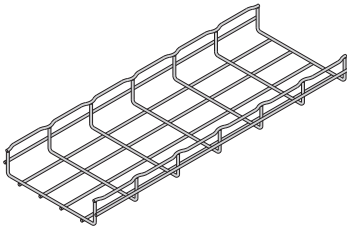
Height: 1.38" (35 mm)
Length: 118.312" (3 meter)
Wire Dia. Minimum: .196" (5.0 mm)
Finishes:
EG, GS, BLE, HD, 304S, 316S



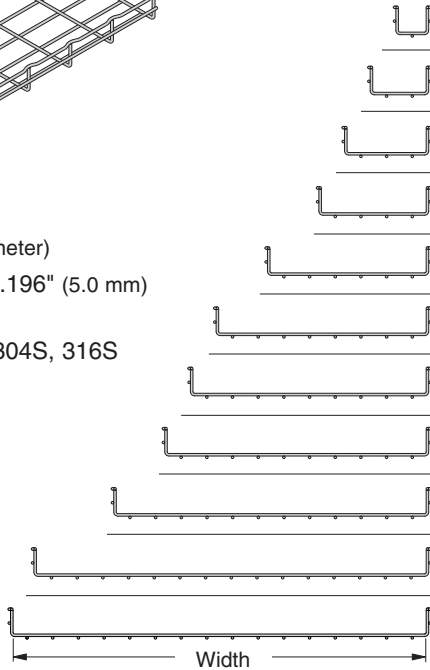
Part Number	Width		Wt. Per Pc.	
	in.	mm	lbs.	kg
FT1.5X4X10	4	100	5.8	2.63
FT1.5X6X10	6	150	7.4	3.35
FT1.5X8X10	8	200	9.0	4.08
FT1.5X12X10	12	300	12.1	5.49

Only FT1.5X12 (12" wide) is UL Classified and CSA certified

2" Deep Flextray



Height: 2.38" (60 mm)
Length: 118.312" (3 meter)
Wire Dia. Minimum: .196" (5.0 mm)
Finishes:
EG, GS, BLE, HD, 304S, 316S



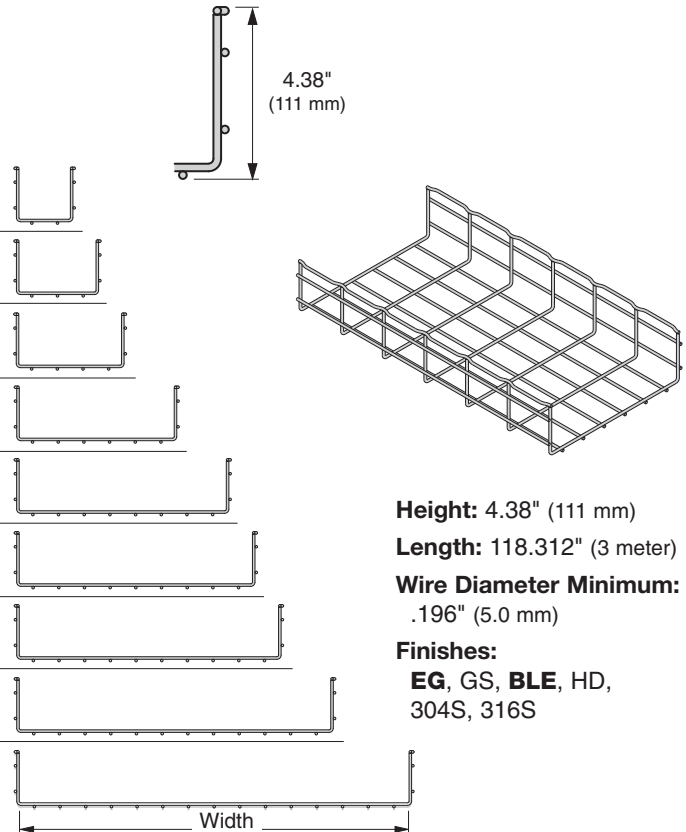
Part Number	Width		Wt. Per Pc.	
	in.	mm	lbs.	kg
FT2X2X10	2	50	6.6	2.99
FT2X4X10	4	100	8.2	3.72
FT2X6X10	6	150	9.7	4.40
FT2X8X10	8	200	11.2	5.08
FT2X12X10	12	300	14.3	6.48
FT2X16X10	16	400	17.4	7.89
FT2X18X10	18	450	18.9	8.57
FT2X20X10	20	500	20.4	9.25
FT2X24X10	24	600	23.5	10.66
FT2X30X10	30	750	28.1	12.74
FT2X32X10	32	800	29.7	13.47

FT2X6 (6" wide) through FT2X32 (32" wide) are UL Classified and CSA certified

See page - 2 for finish information

4" Deep Flextray

Part Number	Width		Wt. Per Pc.	
	in.	mm	lbs.	kg
FT4X4X10	4	100	11.25	5.10
FT4X6X10	6	150	12.79	5.80
FT4X8X10	8	200	14.32	6.49
FT4X12X10	12	300	17.39	7.89
FT4X16X10	16	400	20.45	9.27
FT4X18X10	18	450	21.99	9.97
FT4X20X10	20	500	23.52	10.67
FT4X24X10	24	600	26.59	12.06
FT4X30X10	30	750	31.19	14.15

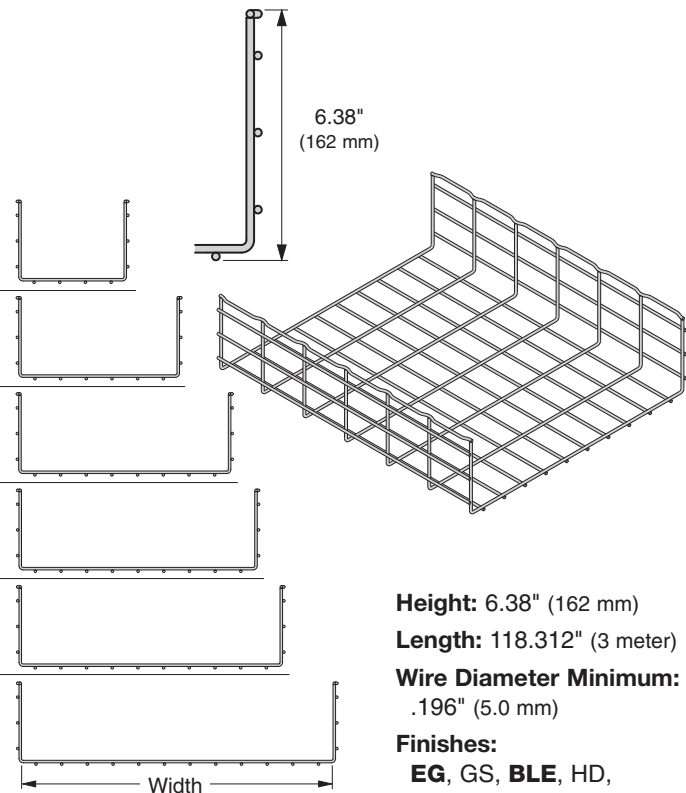


Height: 4.38" (111 mm)
Length: 118.312" (3 meter)
Wire Diameter Minimum:
 .196" (5.0 mm)
Finishes:
EG, GS, BLE, HD,
304S, 316S

All 4" deep Flextrays are UL Classified and CSA certified

6" Deep Flextray

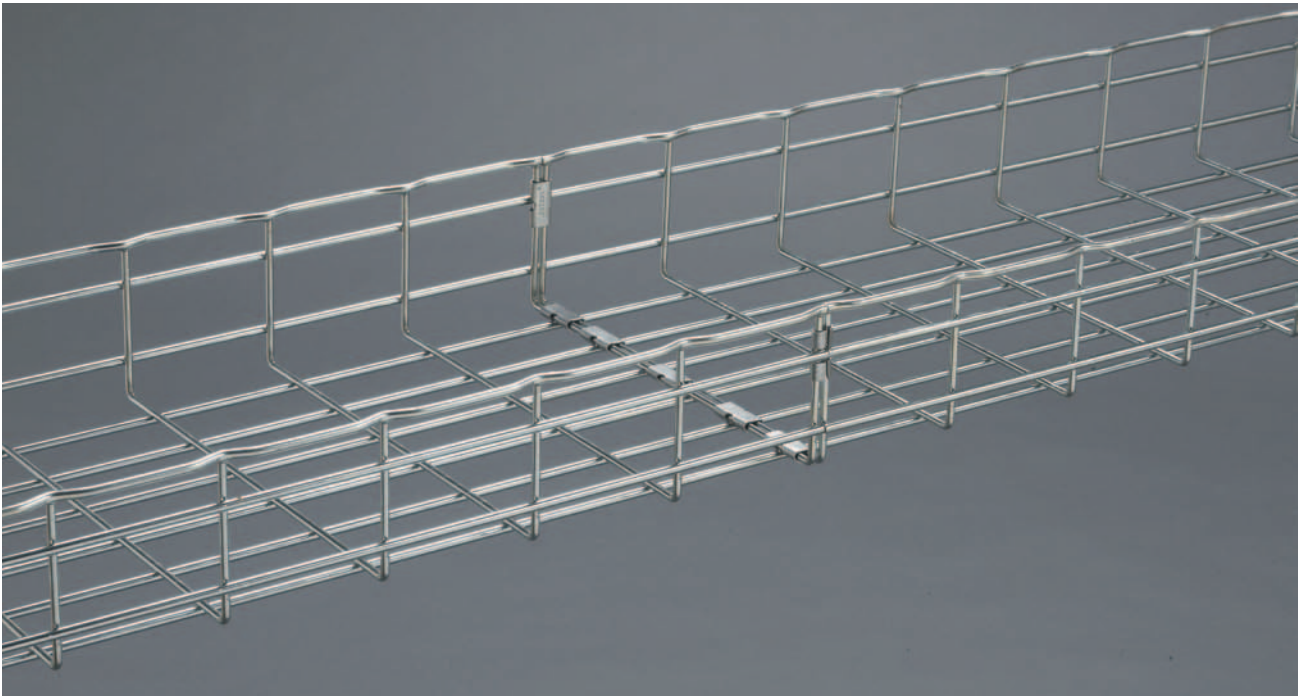
Part Number	Width		Wt. Per Pc.	
	in.	mm	lbs.	kg
FT6X8X10	8	200	17.39	7.89
FT6X12X10	12	300	20.45	9.27
FT6X16X10	16	400	23.52	10.67
FT6X18X10	18	450	25.06	11.37
FT6X20X10	20	500	26.59	12.06
FT6X24X10	24	600	29.66	13.45



Height: 6.38" (162 mm)
Length: 118.312" (3 meter)
Wire Diameter Minimum:
 .196" (5.0 mm)
Finishes:
EG, GS, BLE, HD,
304S, 316S

All 6" deep Flextrays are UL Classified and CSA certified

See page - 2 for finish information



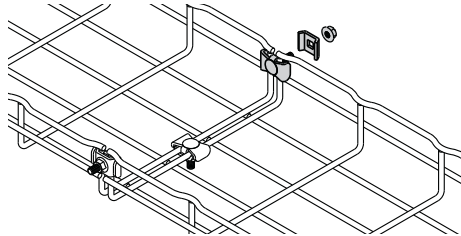
Washer Splice Kit

- Washer is staked to bolt, holding part stationary during installation
- Fewer parts to handle
- For use with all tray widths and sizes
- Finishes __: **EG, BLE**

BLE suffix indicates black zinc finish for this part only



Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
WASHER SPL KIT__	Assembly of Staked Washer Stud/Washer & Finned Nut	50	4.5	2.04



Splicing Chart (number of splices required for UL Classification)

Tray Height	Tray Width - number of splices								
	2" (50mm)	4" (100mm)	6" (150mm)	8" (200mm)	12" (300mm)	16" (400mm)	18" (450mm)	20" (500mm)	24" (600mm)
2"	NC	NC	4	4	4	4	4	5	5
4"	NM	4	5	6	6	7	7	7	8
6"	NM	NM	NM	6	6	7	7	7	8

NC = Not UL Classified in this size NM = Flextray is not manufactured in this size

Splice Hardware Components

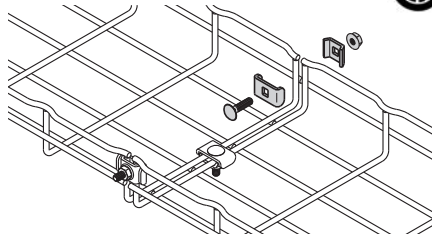
- Works with all splicing needs
- For use with all tray widths and sizes
- Components are sold separately
- Finishes __: **EG, BLE-BLO, 304S, 316S**

FTHDWE 1/4 not available in **BLE**.

TOP WASHER & BTM WASHER not available in **BLO**.



Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
FTHDWE 1/4__	1/4" x 1" Carriage Bolt & Finned nut	50	1.2	0.54
TOP WASHER__	1" Square Splice Washer	50	1.4	0.63
BTM WASHER__	1 3/16" Square Splice Washer	50	2.0	0.91



BTM WASHER



FTHDWE1/4



TOP WASHER

Splicing Chart (number of splices required for UL Classification)

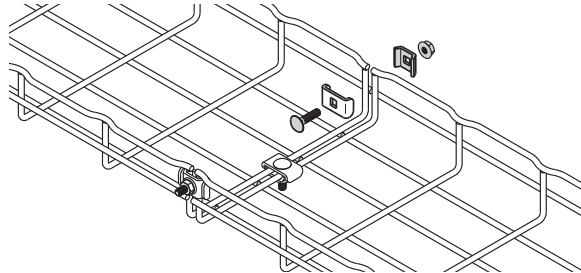
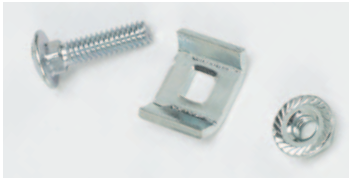
Tray Height	Tray Width - number of splices								
	2" (50mm)	4" (100mm)	6" (150mm)	8" (200mm)	12" (300mm)	16" (400mm)	18" (450mm)	20" (500mm)	24" (600mm)
2"	NC	NC	4	4	4	4	4	5	5
4"	NM	4	5	6	6	7	7	7	8
6"	NM	NM	NM	6	6	7	7	7	8

NC = Not UL Classified in this size NM = Flextray is not manufactured in this size

See page 2 for finish and grounding information

Connecting Hardware

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
FTSCH__	Connecting Hardware	50	2.0	0.91



- Adaptable and designed for use with splice plate (FTS3SP), SPLICE BAR, and long splice bar (FTS36SB).
- Finishes __: **EG, BLE-BLO, 304S, 316S**

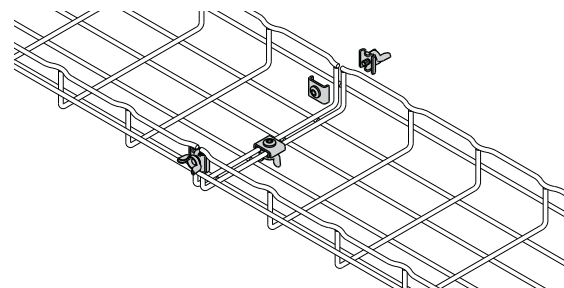
Splicing Chart (number of splices required for UL Classification)

Tray Height	Tray Width - number of splices								
	2" (50mm)	4" (100mm)	6" (150mm)	8" (200mm)	12" (300mm)	16" (400mm)	18" (450mm)	20" (500mm)	24" (600mm)
2"	NC	NC	4	4	4	4	4	5	5
4"	NM	4	5	6	6	7	7	7	8
6"	NM	NM	NM	6	6	7	7	7	8

NC = Not UL Classified in this size NM = Flextray is not manufactured in this size

Wing Splice™

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
FTSWN__	Wing Splice	50	3.0	1.38



- Two piece design for easy handling
- Tool-less installation
- Reduces installation time, especially when used on fittings and bends
- Finish__: **ZN**

Splicing Chart (number of splices required for UL Classification)

Tray Height	Tray Width - number of splices								
	2" (50mm)	4" (100mm)	6" (150mm)	8" (200mm)	12" (300mm)	16" (400mm)	18" (450mm)	20" (500mm)	24" (600mm)
2"	NC	NC	4	4	4	4	4	5	5
4"	NM	4	5	6	6	7	7	7	8
6"	NM	NM	NM	6	6	7	7	7	8

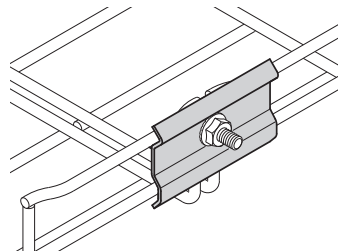
NC = Not UL Classified in this size NM = Flextray is not manufactured in this size

See page 2 for finish and grounding information

Splice Plate (only)

Part Number	Description	Length	Height	Hole Diameter	Qty./Box	Wt./Box	
						lbs.	kg
FTS3SP__	Splice Plate	2.7"	1.6"	0.27"	50	6.1	2.76

- Splice plate is designed for use with connecting hardware (FTSCH) to provide added stability of splice connections
- Hardware sold separately
- Finish__: **ZN**, SS6



Flexmate™ Splice System

- Fastest splice connection method available in the industry
- For use with 4" (100mm) to 12" (300mm) wide tray
- Flexmate clips and tool sold separately
- Finishes __: **GS**, BLE

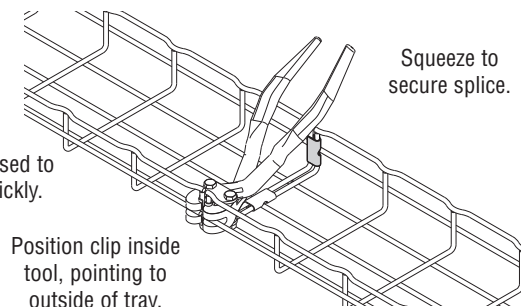
Note: Please contact Cooper B-Line when using Flexmates on tray widths larger than 12" (300mm) for specific requirements. Cooper B-Line recommends that splice/supports comply with NEMA VE-2 installation requirements

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
FLEXMATE2__	Flexmate Splice Clips	50	1.0	0.45
FLEXMATE TOOL	Flexmate Splice Tool	1	0.7	0.32



FLEXMATE TOOL

Flexmate Tool is used to install splices quickly.



Squeeze to secure splice.

Position clip inside tool, pointing to outside of tray.

Splicing Chart (number of splices required for UL Classification)

Tray Height	Tray Width - number of splices				
	2" (50mm)	4" (100mm)	6" (150mm)	8" (200mm)	12" (300mm)
2"	NC	NC	5	5	5
4"	NM	5	6	7	7
6"	NM	NM	NM	7	7

NC = Not UL Classified in this size

NM = Flextray is not manufactured in this size

See page 2 for finish and grounding information

Tab-Loc Connector

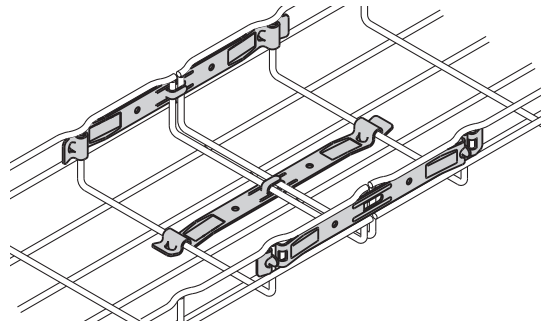
Part Number	Description	Length	Qty./Box lbs.	Wt./Box kg	
FTSTLC__	Tab-Loc Connectors	9.29"	50	7.2	3.26



- Fast splice for straight runs of tray
- For use with 2" (50mm) to 32" (800mm) wide tray to connect straight sections only
- Finishes __: **ZN**, SS6

Application Requirements

The recommendations listed are equal for all depths (except as noted).

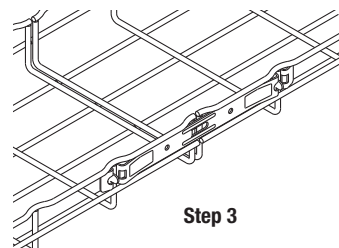
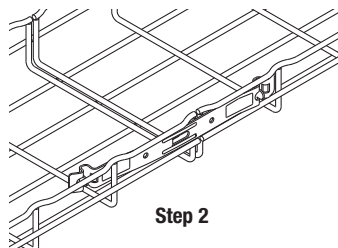
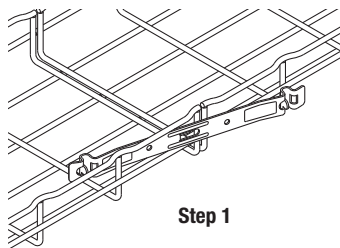


Splicing Chart (number of splices required for UL Classification)

Tray Height	Tray Width - number of splices								
	2" (50mm)	4" (100mm)	6" (150mm)	8" (200mm)	12" (300mm)	16" (400mm)	18" (450mm)	20" (500mm)	24" (600mm)
2"	2	2	4	4	4	4	4	5	5
4"	NM	4	5	6	6	7	7	7	8
6"	NM	NM	NM	6	6	7	7	7	8

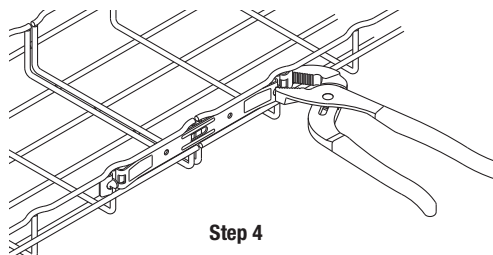
NM = Flextray is not manufactured in this size

Installation



Tab-Loc security without special tools.

Screwdriver can also be used to bend tab-locs (hold connector ends while bending).

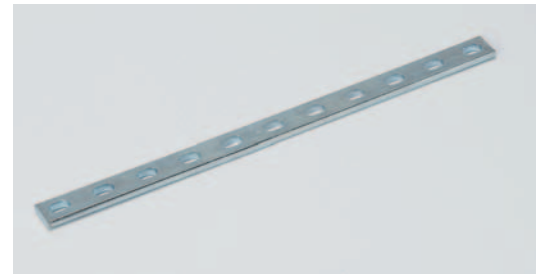
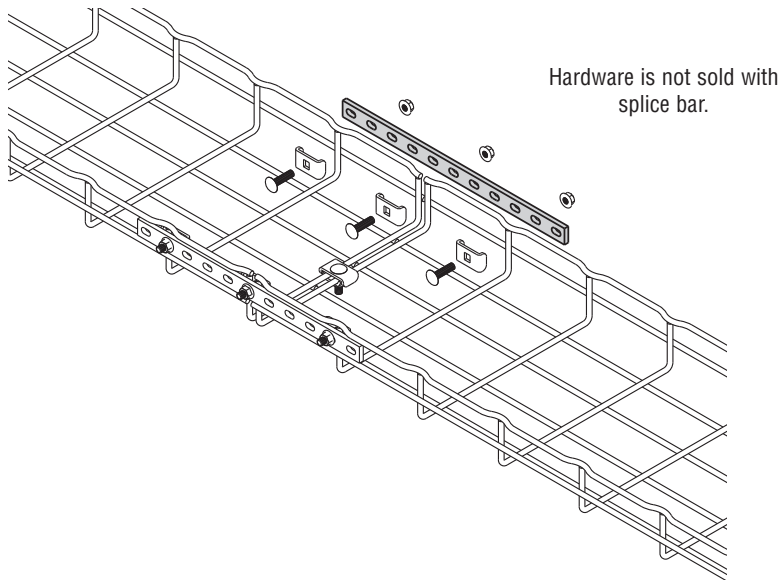


See page 2 for finish and grounding information

Splice Bar

- Adds rigidity to washer splice methods
- Used on side rails only (not for use in tray bottom)
- For use on trays when using splice hardware FTSCH
- Hardware sold separately
- Finishes __: **EG**, BLE, HD, 316S

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
SPLICE BAR __	10 ¹³ / ₁₆ " Long Bar	50	14.0	6.35



Each splice bar requires three (3) each of Hardware Splice Components - TOP WASHER, and FTHDWE 1/4 to complete connection. These items must be ordered separately.

Washer Splice Kits (WASHER SPL KIT) are required for connections on bottom of tray.

Splicing Chart (number of splices required for UL Classification)

Tray Height	Tray Width - number of splices								
	2" (50mm)	4" (100mm)	6" (150mm)	8" (200mm)	12" (300mm)	16" (400mm)	18" (450mm)	20" (500mm)	24" (600mm)
2"	NC	NC	2	2	2	2	2	2	2
4"	NM	4	4	4	4	4	4	4	4
6"	NM	NM	NM	4	4	4	4	4	4

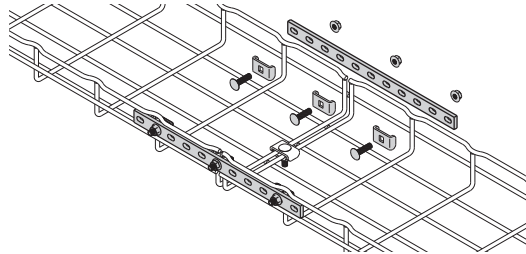
NC = Not UL Classified in this size NM = Flextray is not manufactured in this size

See page 2 for finish and grounding information

Splice Bar Kit

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
FTSBK__	12" Long Splice Bar Kit	5 Sets	6.4	2.90

- Adds rigidity
- Includes two (2) SPLICE BAR and hardware
- Finishes __: **ZN**, FB, SS6



Splicing Chart (number of splices required for UL Classification)

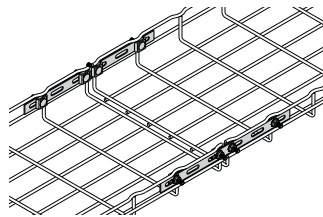
Tray Height	Tray Width - number of splices								
	2" (50mm)	4" (100mm)	6" (150mm)	8" (200mm)	12" (300mm)	16" (400mm)	18" (450mm)	20" (500mm)	24" (600mm)
2"	NC	NC	2	2	2	2	2	2	2
4"	NM	4	4	4	4	4	4	4	4
6"	NM	NM	NM	4	4	4	4	4	4

NC = Not UL Classified in this size NM = Flextray is not manufactured in this size

Expansion Splice Kit

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
FTS12ESK__	12" Long Expansion Splice Kit	1 Kit	0.45	0.20

- Allows 1³/₄" (44mm) of expansion between two pieces of Flextray at expansion joints.
- To install, tighten nylon loc-nut until nut comes into contact with splice bar, then loosen approximately 1/4 turn.
- Includes two (2) splice bars and eight (8) sets of hardware
- Finishes __: **ZN**



Long Splice Bar (only)

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
FTS12SB__	12" Long - 6 Slots	1	0.13	0.06
FTS36SB__	36" Long - 18 Slots	1	0.40	0.18

- FTS36SB long splice bar is used for assembly of large radius horizontal bends or field cut into short splice bars
- Splice Bars are designed for use with connecting hardware (FTSCH)
- Hardware sold separately
- Finishes __: **ZN**, FB, SS6



FTS12SB



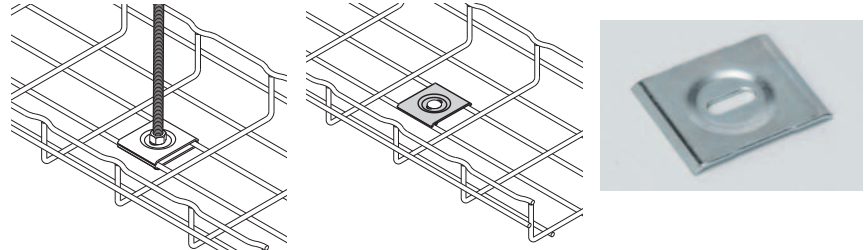
FTS36SB

See page 2 for finish and grounding information

Hold Down Plate

- Easy way to mount 4" (100mm) wide tray for raceway run.
- Use 1/4" screws to attach SUPT WASHER to your specific wall/stud application (hardware sold separately).
- FTA6HD can be used in pairs to create a center-hung support using 3/8" rod.
- To protect cables use threaded rod protector (page 61).
- To complete 3/8" center hanger assembly use:
 - 2 - FTA6HD
 - 2 - HN 3/8"-16 hex nuts
- Finish: **ZN**, SS6

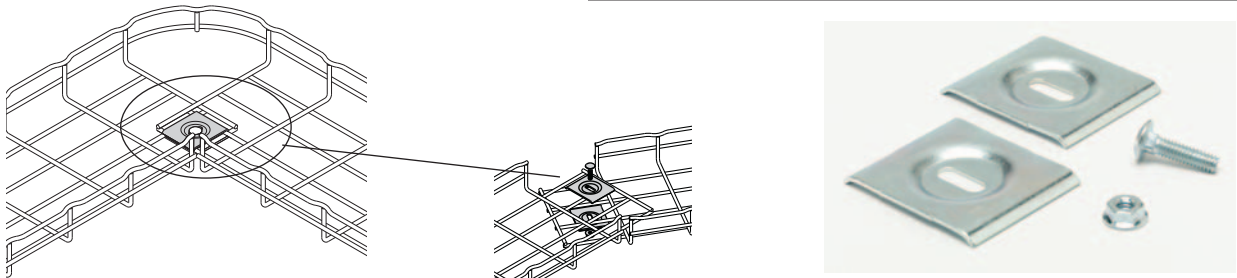
Part Number	Slot Size	Qty./Box	Wt./Box	
			lbs.	kg
SUPT WASHER __	.28" x .70"	50	4.7	2.13
FTA6HD __	.40" x .70"	50	3.5	1.59



- Horizontal adjustable kit can be used to create horizontal angles from prepared Flextray straight sections
- Conveniently poly-bagged
- Finishes __: **EG**, BLE, 316S

Horizontal Adjustable Kit

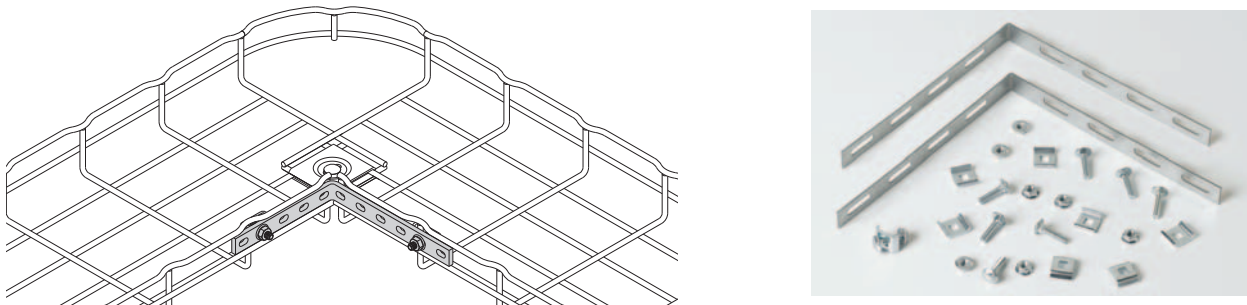
Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
FTSHAK __	Horizontal Adjustable Kit	10	2.4	1.09



- For fast assembly of 90° turns and tee fittings
- For use with all tray widths and sizes
- One kit will make two 90° turns or one tee fitting
- 90 DEGREE KIT: includes: two (2) 90° splice bars and eight (8) FTSCH
- Finishes __: **EG**, BLE, 316S

90 Degree Kit

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
90 DEGREE KIT __	90 degree splice bar & hardware	1	1.3	0.59



See page 2 for finish and grounding information

Flextray™ - Splicing Accessories

Components Required to Connect Two Sections of Flextray

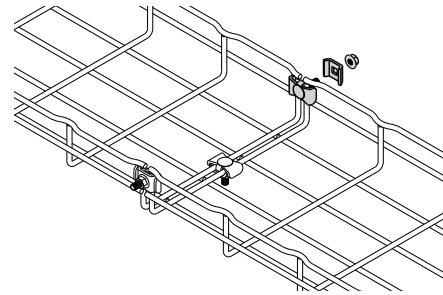
System Part Number	System Width in. mm	Connector Assembly WASHER SPL KIT	Connecting Hardware FTSCH	Splice Plate FTS3SP	Splice Bar SPLICE BAR
--------------------	------------------------	--------------------------------------	------------------------------	------------------------	--------------------------



(*) 4 for 4" Deep Flextray
6 for 6" Deep Flextray

FT2X2	2"	50	2	-	-	-
FT2X4	4"	100	2	-	-	-
FT2X6	6"	150	4 ¹	-	-	-
FT2X8	8"	200	4 ¹	-	-	-
FT2X12	12"	300	4 ¹	-	-	-
FT2X16	16"	400	4 ¹	-	-	-
FT2X18	18"	450	4 ¹	-	-	-
FT2X20	20"	500	5 ¹	-	-	-
FT2X24	24"	600	5 ¹	-	-	-
FT2X30	30"	750	7 ¹	-	-	-
FT2X32	32"	800	7 ¹	-	-	-
FT4X4	4"	100	4 ¹	-	-	-
FT4X6	6"	150	5 ¹	-	-	-
FT4X8	8"	200	6 ²	-	-	-
FT(*)X12	12"	300	6 ²	-	-	-
FT(*)X16	16"	400	7 ²	-	-	-
FT(*)X18	18"	450	7 ²	-	-	-
FT(*)X20	20"	500	7 ²	-	-	-
FT(*)X24	24"	600	7 ²	-	-	-
FT(*)X30	30"	750	8 ²	-	-	-

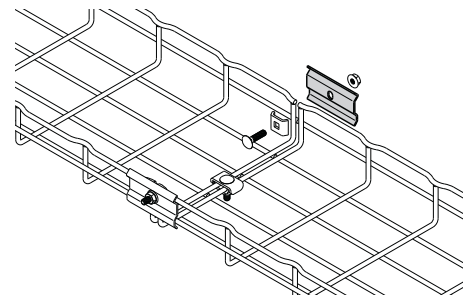
Washer Splice Kits



- 1 Install one kit on each side and remaining kit(s) on bottom.
- 2 Install two kits on each side and remaining kits on bottom.

FT2X2	2"	50	-	2	2	-
FT2X4	4"	100	-	2	2	-
FT2X6	6"	150	1	2	2	-
FT2X8	8"	200	1	2	2	-
FT2X12	12"	300	2	2	2	-
FT2X16	16"	400	2	2	2	-
FT2X18	18"	450	2	2	2	-
FT2X20	20"	500	2	2	2	-
FT2X24	24"	600	2	2	2	-
FT2X30	30"	750	4	2	2	-
FT2X32	32"	800	4	2	2	-
FT4X4	4"	100	1	2	2	-
FT4X6	6"	150	2	2	2	-
FT4X8	8"	200	2	2	2	-
FT(*)X12	12"	300	3	2	2	-
FT(*)X16	16"	400	4	2	2	-
FT(*)X18	18"	450	4	2	2	-
FT(*)X20	20"	500	4	2	2	-
FT(*)X24	24"	600	4	2	2	-
FT(*)X30	30"	750	5	2	2	-

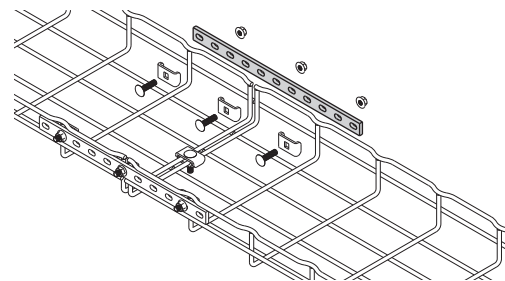
Splice Plates



Install splice plates on sides and
WASHER SPL KIT on bottom.

FT2X2	2"	50	-	2	-	2
FT2X4	4"	100	-	2	-	2
FT2X6	6"	150	1	2	-	2
FT2X8	8"	200	1	2	-	2
FT2X12	12"	300	2	2	-	2
FT2X16	16"	400	2	2	-	2
FT2X18	18"	450	2	2	-	2
FT2X20	21"	500	2	2	-	2
FT2X24	24"	600	2	2	-	2
FT2X30	30"	750	3	6	-	2
FT2X32	32"	800	3	6	-	2
FT4X4	4"	100	1	2	-	2
FT4X6	6"	150	2	2	-	2
FT4X8	8"	200	2	6	-	2
FT(*)X12	12"	300	2	6	-	2
FT(*)X16	16"	400	3	6	-	2
FT(*)X18	18"	450	3	6	-	2
FT(*)X20	20"	500	3	6	-	2
FT(*)X24	24"	600	3	6	-	2
FT(*)X30	30"	750	4	6	-	2

Splice Bars



Install splice bars on sides and
WASHER SPL KIT on bottom.

Splice Plate Kits for 2" Deep Flextray

Part Number	System Width		Weight Per 100		Box Quantity	Conveniently poly-bagged for use with 2" Deep Flextray
	in.	mm	lbs.	kg		
FTS20SK	2"	50	2.91	1.32	10	
	4"	100				
FTS21SK	6"	150	3.63	1.64	10	
	8"	200				
FTS22SK	12"	300	4.35	1.97	10	
	18"	450				
	20"	500				
	24"	600				

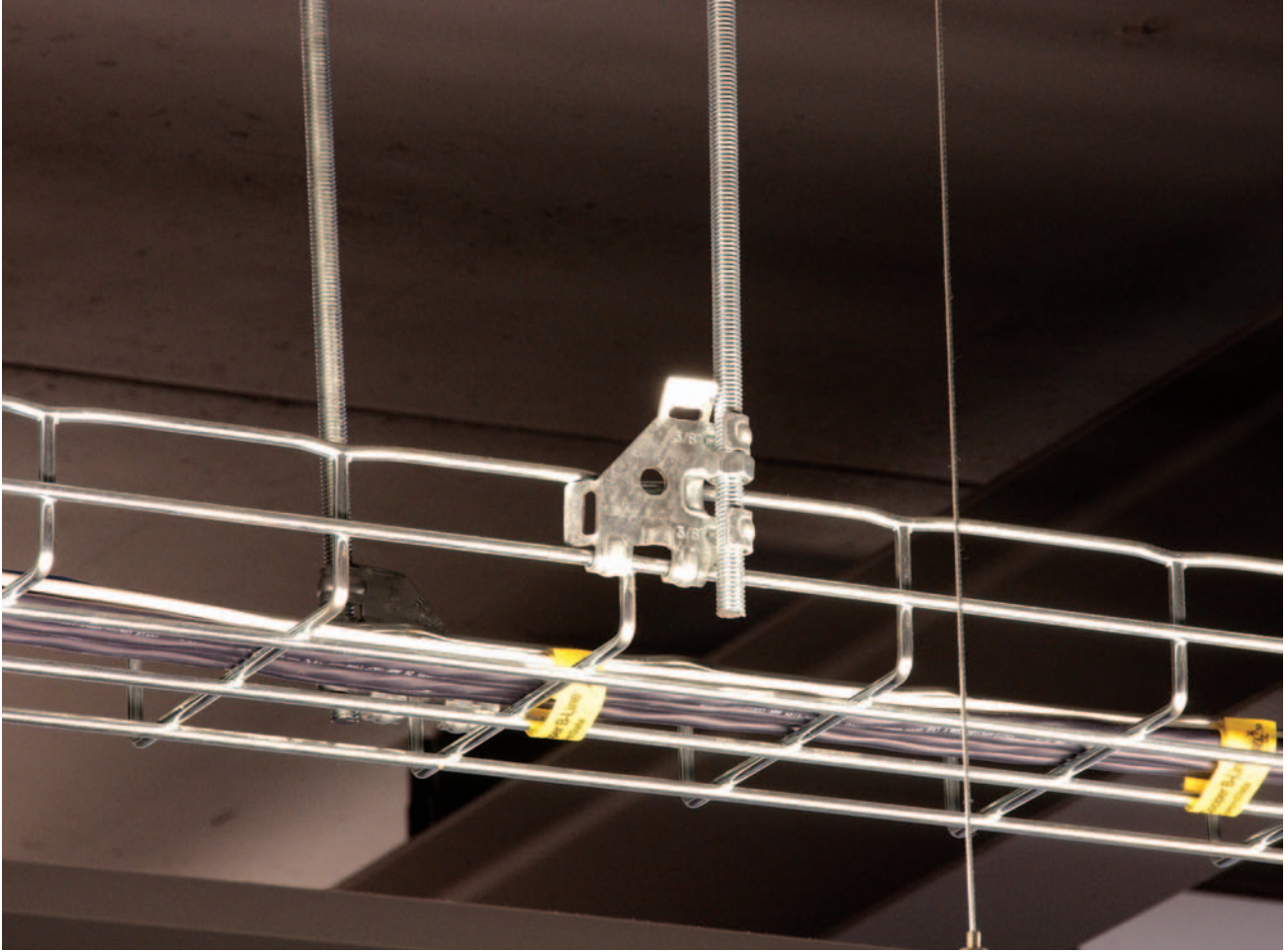
Splicing Accessories

Splice Plate Kits for 4" & 6" Deep Flextray

Part Number	System Width		Weight Per 100		Box Quantity	Conveniently poly-bagged for use with 4" & 6" Deep Flextray
	in.	mm	lbs.	kg		
FTS23SK	4"	100	5.07	2.30	10	
	6"	150				
	8"	200				
	12"	300				
FTS24SK	18"	450	5.79	2.62	10	
	20"	500				
	24"	600				

Flextray™ - Ceiling Support Methods

Ceiling Supports

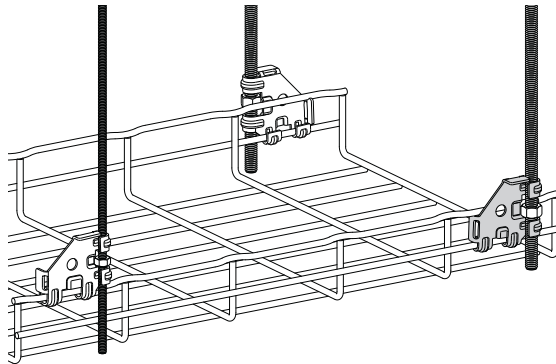


Flip Clip™

- Accommodates 1/4" and 3/8" rod sizes
- Installs quickly with a screwdriver or pliers thus reducing installation time
- Requires only one hex nut (not included) to hang and level the Flextray
- Retainer tabs can be bent over to lock-in the threaded rod and wire basket
- Finishes __: **ZN**, FB, SS6

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
WB46H__	Flip Clip	50	5.2	2.36

Snap retainer stops in place after cable is loaded.

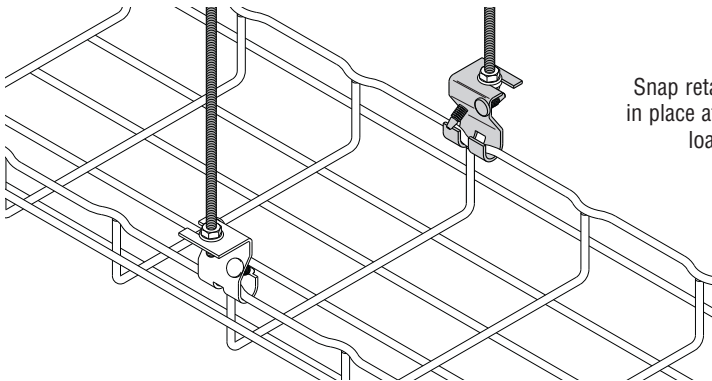


Trapeze Support

- Trapeze Clip installs fast
- For use with trays up to 4" (100mm) deep, 12" (300mm) wide, and spans up to 8'-0" (2.44m)
- Tray can be released from support to allow side cable loading
- Accepts 1/4" and 3/8" threaded rod sizes
- Finishes __: **GS**, BLE

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
TRAPEZE SUPT2__	Trapeze Support Clip	50 trapeze clips 100 retainer stops	7.0	3.17

Snap retainer stops in place after cable is loaded.



See page 2 for finish information

Flextray™ - Ceiling Support Methods

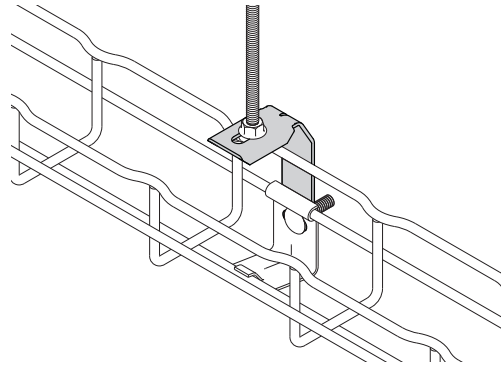
2" Center Hanger

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
2 IN CTR SUPT__	Center Support Hanger for FT2x2	50	5.0	2.27

- For use with 2" (50mm) tray widths only
- Accepts 1/4" threaded rod
- Hardware sold separately
- Finishes __: **GS**, BLE



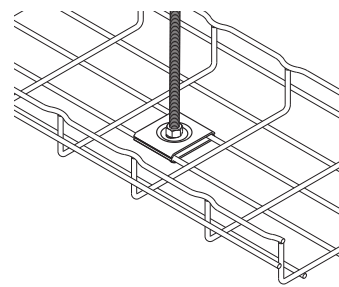
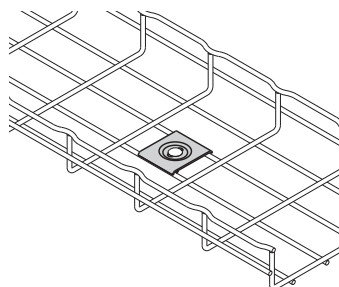
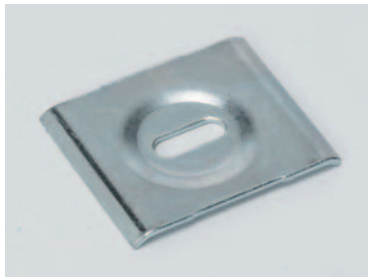
Assemble with ATTACHMENT CLP & FTHDWE 1/4 hardware.



Hold Down Plate

Part Number	Slot Size	Qty./Box	Wt./Box	
			lbs.	kg
SUPT WASHER__	.28" x .70"	50	4.7	2.13
FTA6HD__	.40" x .70"	50	3.5	1.59

- Easy way to mount 4" (100mm) wide tray for raceway run.
- Use 1/4" screws to attach SUPT WASHER to your specific wall/stud application (hardware sold separately).
- FTA6HD can be used in pairs to create a center-hung support using 3/8" rod.
- To protect cables use threaded rod protector (page 21).
- To complete 3/8" center hanger assembly use:
 - 2 - FTA6HD
 - 2 - HN 3/8"-16 hex nuts
- Finish: **ZN**, SS6

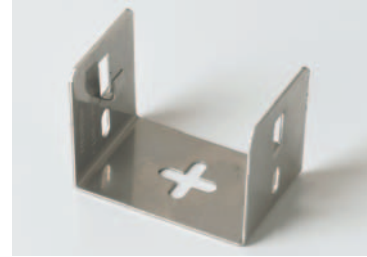
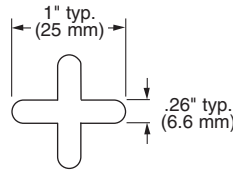
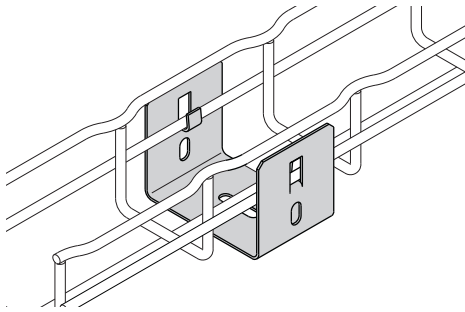


See page - 2 for finish information

Mounting Bracket

- Designed to support FT2X2X10 Flextray
- Click tabs for Flextray attachment
- Use 1/4" hardware and washer (not included) to mount bracket
- Finishes __: **SS6**

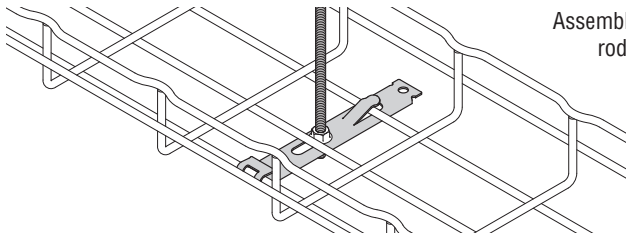
Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
FTB2UB__	Light Duty Wall/Rack Bracket	10	2.1	0.95



Center Hung Clip

- Use for light duty cabling applications
- For use with 1 1/2" (38mm) & 2" (51mm) deep tray with 4" (100mm) and 6" (150mm) widths
- Built-in hold down tab
- Accepts 1/4" threaded rod
- Threaded rod and nuts sold separately
- Finishes __: **GS**, BLE

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
CTR HUNG CLP__	Light Duty Center Hanger	50	4.0	1.81



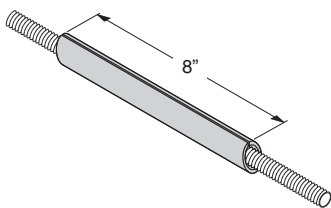
Assemble with 1/4" threaded rod and finned nut



Threaded Rod Protector

- Use to protect cables from 1/4" to 1/2" threaded rod
- PVC UL94V-0 material
- Color: Gray

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
SB301-1/2x8__	Rod Protector	1	0.01	0.004

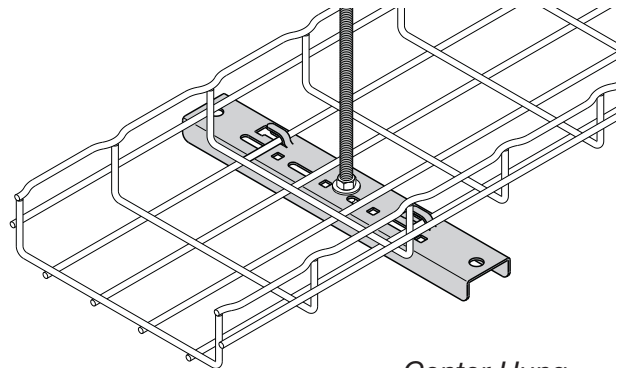
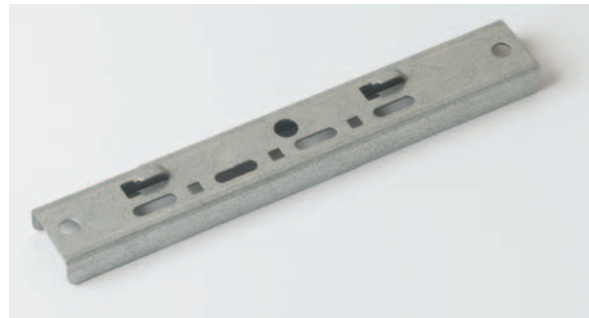


See page - 2 for finish information

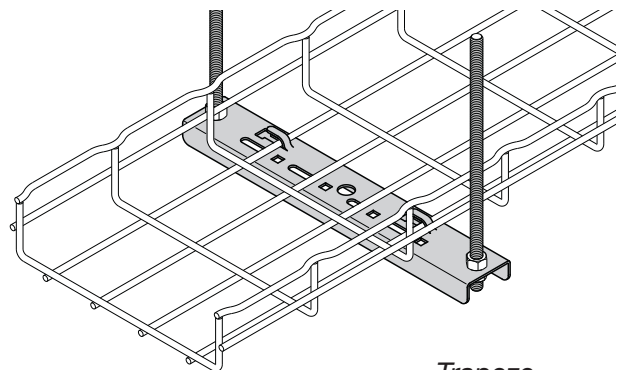
Center Trapeze Hanger

Part Number	Maximum Tray Width		Actual Length		Wt./Pc.	
	in.	mm	in.	mm	lbs.	kg
FTB06CT	6"	150	9.78"	248	0.61	0.27
FTB08CT	8"	200	11.75"	298	0.74	0.33
FTB12CT	12"	300	15.69"	398	0.98	0.44
FTB16CT	16"	400	19.63"	498	1.61	0.73
FTB18CT	18"	450	21.59"	548	1.77	0.80
FTB20CT	20"	500	23.56"	598	1.93	0.87
FTB24CT	24"	600	27.50"	698	2.25	1.02

- Can be installed as center-hung or traditional trapeze hanger
- Multiple options to secure Flextray to hanger
 - Built in hold down tabs (use screwdriver to bend down tab)
 - Compatible with TOOLLESS CLIP with snap-in locking pin
 - Compatible with WBUHD hold down clip when tray crosswire is aligned over top of hanger
 - Slots and holes for optional hardware attachment
- Corrosion resistant pre-galvanized zinc finish (other finishes available upon request)
- Center hole for up to 1/2" rod
- Hole on each end for up to 3/8" rod
- Threaded rod protector available (SB301-1/2 x 8)



Center Hung



Trapeze

See page - 2 for finish information

KwikWire™ Clamps & Wire Rope

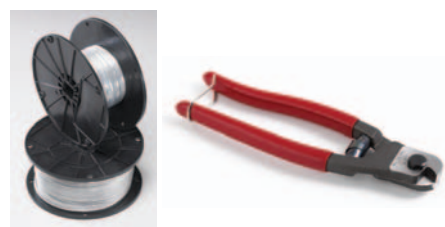


- KwikWire system replaces jack chain or ATR to support lighting, ductwork, and Flextray.
- Can be quickly installed around beams - No drilling required.
- Ideal for sloped ceilings - can hang objects at up to 60° angles.
- Simple height adjustments are made by releasing locking tab, no tools required.
- Spools of wire can be cut to length in field, reducing waste and up front planning.

Part Number	Clamp Description For Use With Rope Diameter	Qty./Box
BKC100	1/32", 1/16" & 3/32"	100
BKC200	3/32", 1/8" & 3/16"	50



Part Number	Rope Diameter - Working Load	Qty./Spool
BKW063 (1)	1/16" - 96 lbs.	500 ft.
BKW094 (1)	3/32" - 184 lbs.	500 ft.
BKW125 (1)	1/8" - 340 lbs.	500 ft.
BKW188 (2)	3/16" - 840 lbs.	250 ft.
BKCC	Wire Rope Cutter	1



Wire Rope Construction



(1) 7 x 7



(2) 7 x 19

KwikWire™ Clamp Working Loads*

Clamp Part No.	Wire Rope Dia.	Lbs. Safety Factor 5
BKC100	1/32"	0-22
BKC100	1/16"	0-75
BKC100	3/32"	25-150
BKC200	3/32"	25-150
BKC200	1/8"	25-250
BKC200	3/16"	50-640

* Working loads shown are for hanging vertically. For suspending at 15°, 30°, 45° or 60° angles from vertical, use the following percentage of the working loads from the chart:

15° = 96%
 30° = 86%
 45° = 70%
 60° = 50%

KwikWire™ Cable Assemblies



- New KwikWire “Y” Cable Assemblies will simplify the installation of light fixtures and cable tray.
- “Y” Cables enable a single suspension point to provide two securement points.
- “Y” legs are 18” in length.
- “Y” Cable Assembly Kits include two (2) 10’-0” long cable assemblies and two (2) KwikWire clamps.
- Add-on cable assemblies can be field installed on KwikWire systems.



Part Number	Description	Qty./Box
BKYC-094	Carabiner	20
BKYC-094-120K	Carabiner	10



KwikWire™ Starter Kit

- Starter Kit includes everything you need to get the job done.
- Kits are packaged in a 5-gallon bucket for easy transportation. The lid includes a built-in cable counter to simplify measuring and cutting the wire rope to length.
- Starter Kit includes KwikWire clamps, a spool of wire rope, and a cable cutter.



Part Number	Kit Includes - Working Load	Qty./Box
BKS10063	BKC100 (100 pcs.), Cable Cutter 1/16"Ø Wire Rope (500 ft.)	1
BKS10094	BKC100 (100 pcs.), Cable Cutter 3/32"Ø Wire Rope (500 ft.)	1
BKS15094	BKC150 (100 pcs.), Cable Cutter 3/32"Ø Wire Rope (500 ft.)	1
BKS15125	BKC150 (100 pcs.), Cable Cutter 1/8"Ø Wire Rope (500 ft.)	1
BKS20125	BKC200 (50 pcs.), Cable Cutter 1/8"Ø Wire Rope (500 ft.)	1
BKS20188	BKC200 (50 pcs.), Cable Cutter 3/16"Ø Wire Rope (250 ft.)	1



KwikPak™ Wire Rope & Clamps

KwikPak™ makes handling KwikWire™ a breeze!

- Refill your starter kit with a B-Line KwikPak™.
- KwikPaks include KwikWire clamps and a spool of wire rope.
- KwikPaks are shipped in a specially designed dispenser box to ease field cutting of wire.



Part Number	Kit Includes - Working Load	Qty./Box
BKP10063	BKC100 (100 pcs.), Cable Cutter 1/16"Ø Wire Rope (500 ft.)	1
BKP10094	BKC100 (100 pcs.), Cable Cutter 3/32"Ø Wire Rope (500 ft.)	1
BKP15094	BKC150 (100 pcs.), Cable Cutter 3/32"Ø Wire Rope (500 ft.)	1
BKP15125	BKC150 (100 pcs.), Cable Cutter 1/8"Ø Wire Rope (500 ft.)	1
BKP20125	BKC200 (50 pcs.), Cable Cutter 1/8"Ø Wire Rope (500 ft.)	1
BKP20188	BKC200 (50 pcs.), Cable Cutter 3/16"Ø Wire Rope (250 ft.)	1

Flextray™ - Wall Support Methods

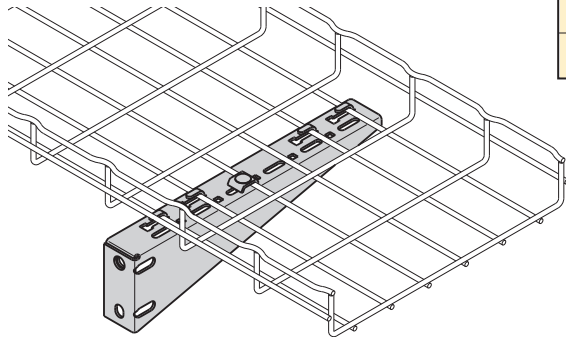


Wall Supports

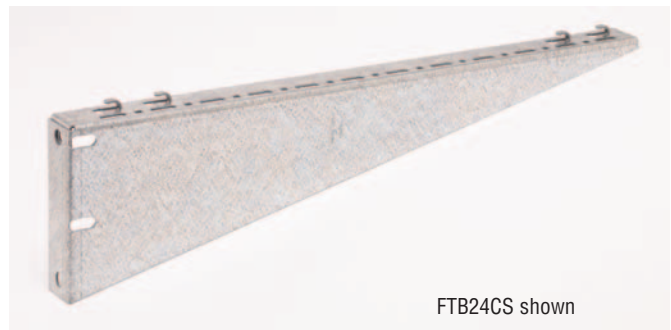


Shelf Brackets

- Heavy-duty support bracket
- For use with 6" (150mm) to 24" (600mm) wide trays
- Built-in tab for hold down
- Optional hardware sold separately
- Finishes __: **GLV**, HDG, SS6



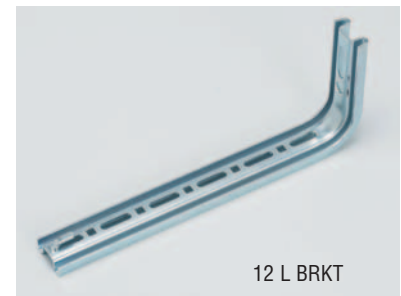
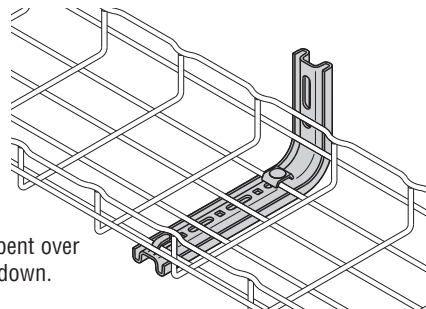
Part Number	Use With Tray Width	Qty./Box	Wt./Box	
			lbs.	kg
FTB06CS __	6" (150mm)	1	0.5	0.22
FTB08CS __	8" (200mm)	1	0.6	0.27
FTB12CS __	12" (300mm)	1	1.2	0.54
FTB16CS __	16" (400mm)	1	1.7	0.77
FTB18CS __	18" (450mm)	1	1.9	0.86
FTB20CS __	20" (500mm)	1	2.6	1.18
FTB24CS __	24" (600mm)	1	3.2	1.45



L Brackets

- Installs tray to wall cleanly
- Built-in tab for hold down (not available in stainless steel)
- For use with 4" (100mm) to 24" (600mm) wide trays
- Use with pedestal clamp in raised floor applications
- Hardware sold separately
- Finishes __: **EG**, HD, BLE, 316S

Part Number	Use With Tray Width	Qty./Box	Wt./Box	
			lbs.	kg
4 L BRKT __	4" (150mm)	1	0.6	0.27
8 L BRKT __	6" (150mm) & 8" (200mm)	1	0.8	0.36
12 L BRKT __	12" (300mm)	1	1.3	0.59
16 L BRKT __	16" (400mm)	1	1.4	0.63
20 L BRKT __	18" & 24" (450 & 500mm)	1	2.0	0.91
24 L BRKT __	24" (600mm)	1	2.3	1.04

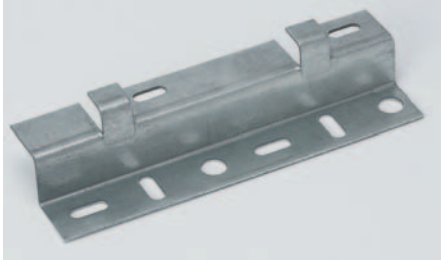


See page - 2 for finish information

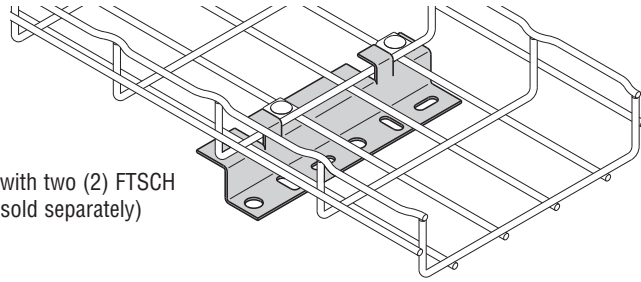
Flextray™ - Wall Support Methods

Z Brackets

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
Z BRKT__	Z Bracket	1	0.6	0.27



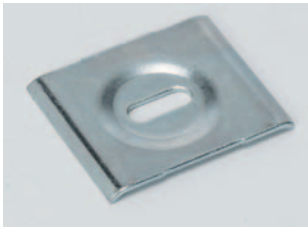
- Used for horizontal and/or vertical mounting
- 8" (200mm) wide bracket for use with 4" (100mm) to 32" (800mm) wide trays
- Can be used to offset trays from floor
- Can be used to terminate tray run at wall
- Multiple brackets can be used for wider tray widths
- Finishes __: **GS**, BLE



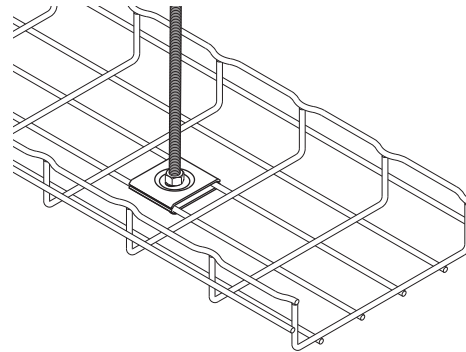
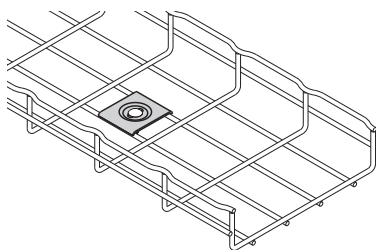
Use with two (2) FTSCH
(sold separately)

Hold Down Plate

Part Number	Slot Size	Qty./Box	Wt./Box	
			lbs.	kg
SUPT WASHER__	.28" x .70"	50	4.7	2.13
FTA6HD__	.40" x .70"	50	3.5	1.59



- Easy way to mount 4" (100mm) wide tray for raceway run.
- Use 1/4" screws to attach SUPT WASHER to your specific wall/stud application (hardware sold separately).
- FTA6HD can be used in pairs to create a center-hung support using 3/8" rod.
- To protect cables use threaded rod protector (page 61).
- To complete 3/8" center hanger assembly use:
 - 2 - FTA6HD
 - 2 - HN 3/8"-16 hex nuts
- Finish: **ZN**, SS6

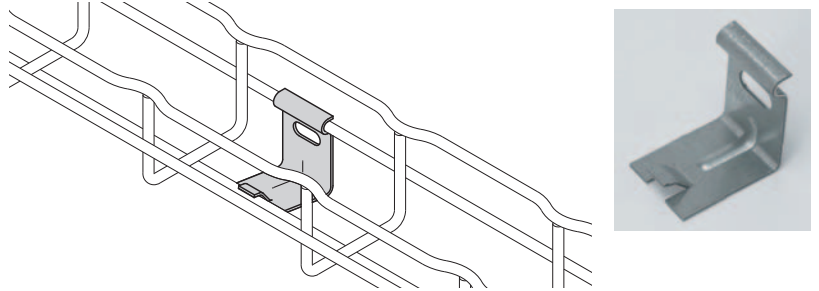


See page 44 for finish information

Attachment Clips

- Wall attachment for 2" (50mm) wide tray only (FT2X2X10)
- Low-profile appearance
- Built-in tab to hold down tray
- Can also be used with 2" (50mm) Center Hanger (see page 60)
- Hardware sold separately
- Finishes __: **GS**, BLE

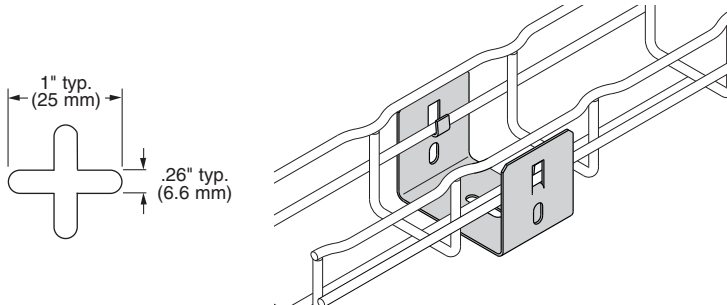
Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
ATTACHMENT CLP__	Attachment Clip Support for FT2x2x10	50	3.4	1.54



Mounting Bracket

- Designed to support FT2X2X10 Flextray
- Click tabs for Flextray attachment
- Use 1/4" hardware and washer (not included) to mount bracket
- Finishes __: **SS6**

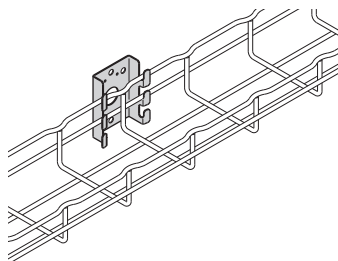
Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
FTB2UB__	Light Duty Wall/Rack Bracket	10	2.1	0.95



Wall Supports

- Use to attach 2" (50mm) or 4" (100mm) trays to walls, struts or cabinets
- Use for raceway mounting
- Mount to metal framing for vertical support
- Tabs are built in for tray hold down
- Mount to side rail for electrical box connection
- Finishes __: **GLV**

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
FTA050CC__	Wall Support Bracket	1	0.8	0.36



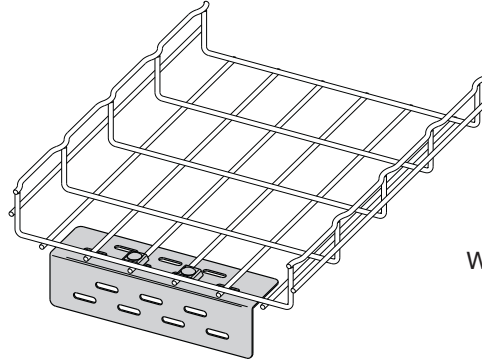
See page - 2 for finish information

Flextray™ - Wall Support Methods

Wall Termination Kit

Part Number	Length	Qty./Box	Wt./Box	
			lbs.	kg
FTA9WTK__	9"	1	1.3	0.59

- Kit includes all hardware necessary to support Flextray when terminated at a wall
- Mount slotted angle to wall with up to 3/8" hardware (not included)
- Finishes __: **ZN**, FB, SS6

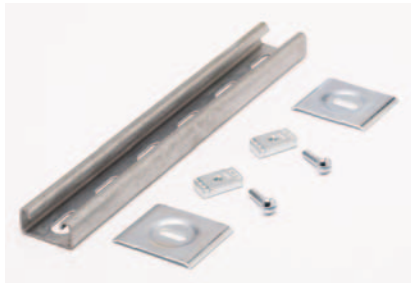


Wall Termination Kit includes:
 1 - Angle with Slots
 2 - FTSCH

Wall Mount Kit

Part Number	Length	Qty./Box	Wt./Box	
			lbs.	kg
WB48WMK__	8"	1	0.76	0.35
WB1224WMK__	12"	1	1.22	0.55

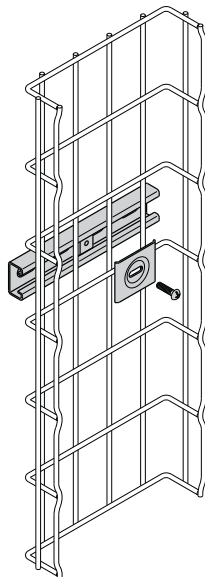
- Kit includes all components necessary to mount Flextray to a wall horizontally or vertically
- Mount strut to wall with up to 1/2" hardware (not included)
- Finish: Channel - **GLV**
 Hardware - **ZN**
 Available in SS6



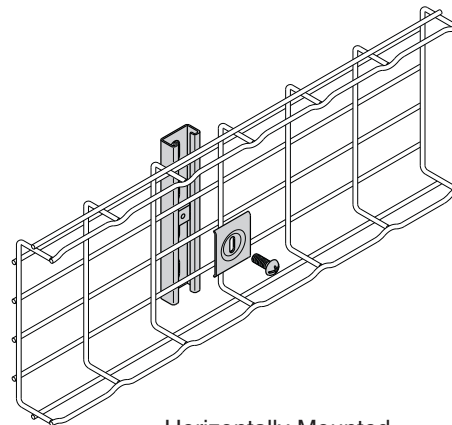
WB1224WMK shown

Wall Mount Kit includes:

WB48WMK	WB1224WMK	
1	1	B54SH Strut
1	2	SUPT WASHER Hold Downs
1	2	1/4"-20 x 1" Slotted Head Screw
1	2	N224WO Channel Nut



Vertically Mounted



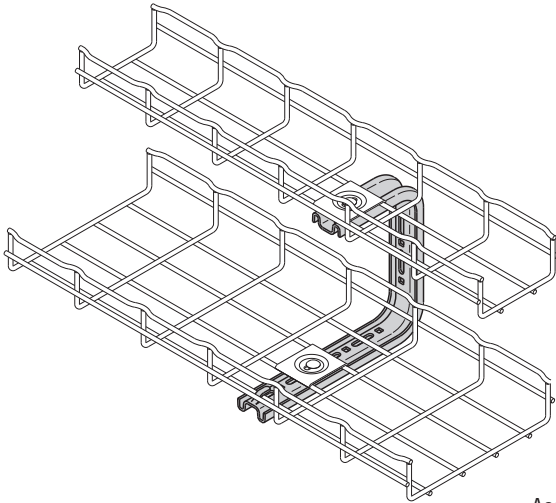
Horizontally Mounted

See page - 2 for finish information

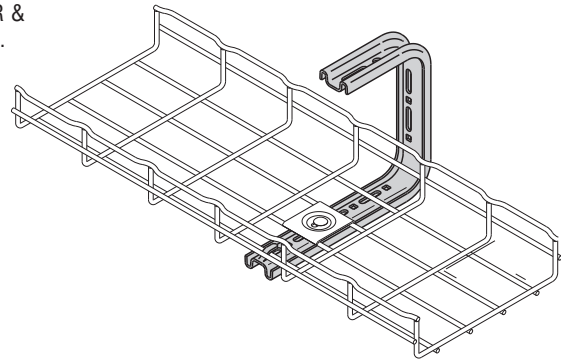
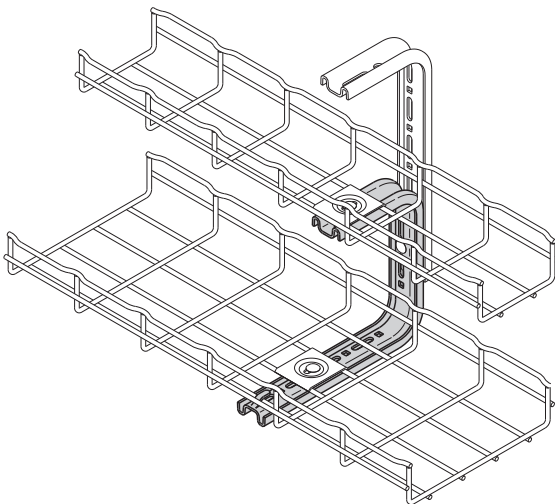
C Brackets

- Tab can be used for hold down (stainless steel will not have these tabs)
- For use with 4" (100mm) to 12" (300mm) wide trays
- C Bracket attaches to hard ceiling types
- All brackets are 7⁷/₈" (200mm) tall
- Cables can be side loaded
- L Brackets (page 27) and C Brackets can be combined for layered tray runs
- Finishes __: **EG**, BLE, HD

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
4 C BRKT__	4" (100mm) C Bracket	1	1.2	0.54
8 C BRKT__	8" (200mm) C Bracket	1	1.4	0.63
12 C BRKT__	12" (300mm) C Bracket	1	1.9	0.86



Assemble with
SUPT WASHER &
FTHDWE 1/4.



See page - 2 for finish information

Flextray™ - F.A.S.T. Underfloor System

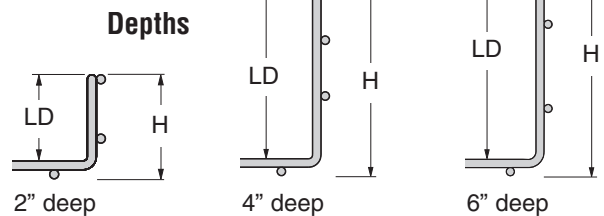
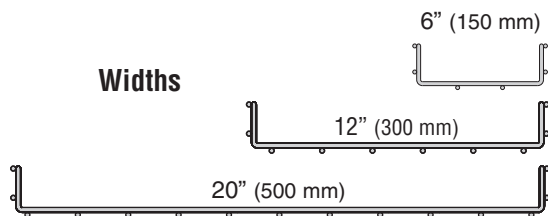
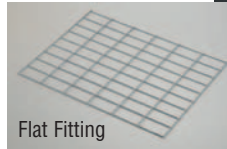
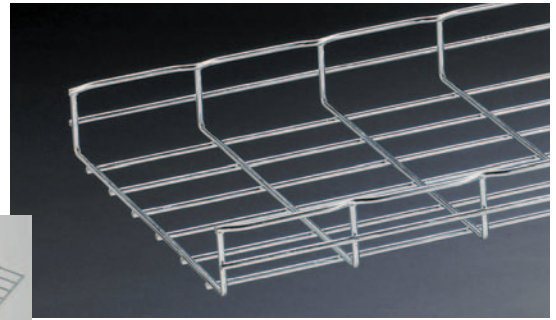
The F.A.S.T. System is an innovative and flexible way to support and manage cables in raised floor applications. This Foldable, Adjustable, Stackable, Tool-less System uses Flextray, stands, and accessories to provide a variety of options for your project and the fastest installation time on the market. Best of all, it does not attach to the raised floor structure and can be installed either before or after floor is in place.



F.A.S.T. System Flextray

- Rounded ends on all wires
- UL Classified (see technical data for details)
- Depths: 2", 4", & 6" nominal
- Lengths: 24", 48", & 118"
- Use flat fitting (WBUFLT) for turns
- Wire Diameter: 0.191" (4.9mm)
- Standard finishes: **GLV**

Consult customer service for other available finishes

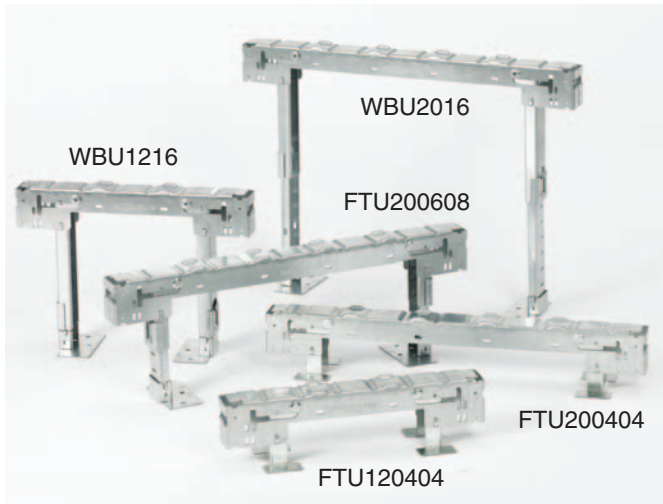


	Part Number	Width		Length		LD		H		Wt. Per Pc.	
		in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg
2" (50mm) deep	FTU2X6X2	6	150	23.9	603	1.63	41	2.02	51	2.03	0.92
	FTU2X6X4	6	150	47.5	1206	1.63	41	2.02	51	3.95	1.79
	FTU2X6X10	6	150	118.4	3008	1.63	41	2.02	51	9.72	4.41
	FTU2X12X2	12	300	23.9	603	1.63	41	2.02	51	2.99	1.36
	FTU2X12X4	12	300	47.5	1206	1.63	41	2.02	51	5.82	2.64
	FTU2X12X10	12	300	118.4	3008	1.63	41	2.02	51	14.32	6.50
	FTU2X20X2	20	500	23.9	603	1.63	41	2.02	51	4.28	1.94
	FTU2X20X4	20	500	47.5	1206	1.63	41	2.02	51	8.33	3.78
	FTU2X20X10	20	500	118.4	3008	1.63	41	2.02	51	20.45	9.28
4" (100mm) deep	FTU4X6X2	6	150	23.9	603	4.38	111	4.77	121	2.67	1.21
	FTU4X6X4	6	150	47.5	1206	4.38	111	4.77	121	5.20	2.36
	FTU4X6X10	6	150	118.4	3008	4.38	111	4.77	121	12.79	5.80
	FTU4X12X2	12	300	23.9	603	4.38	111	4.77	121	3.64	1.65
	FTU4X12X4	12	300	47.5	1206	4.38	111	4.77	121	7.08	3.21
	FTU4X12X10	12	300	118.4	3008	4.38	111	4.77	121	17.39	7.89
	FTU4X20X2	20	500	23.9	603	4.38	111	4.77	121	4.93	2.24
	FTU4X20X4	20	500	47.5	1206	4.38	111	4.77	121	9.58	4.35
	FTU4X20X10	20	500	118.4	3008	4.38	111	4.77	121	23.52	10.67
6" (150mm) deep	FTU6X6X2	6	150	23.9	603	6.38	162	6.77	172	3.32	1.51
	FTU6X6X4	6	150	47.5	1206	6.38	162	6.77	172	6.45	2.93
	FTU6X6X10	6	150	118.4	3008	6.38	162	6.77	172	15.85	7.19
	FTU6X12X2	12	300	23.9	603	6.38	162	6.77	172	4.28	1.94
	FTU6X12X4	12	300	47.5	1206	6.38	162	6.77	172	8.33	3.78
	FTU6X12X10	12	300	118.4	3008	6.38	162	6.77	172	20.45	9.28
	FTU6X20X2	20	500	23.9	603	6.38	162	6.77	172	5.57	2.53
	FTU6X20X4	20	500	47.5	1206	6.38	162	6.77	172	10.83	4.91
	FTU6X20X10	20	500	118.4	3008	6.38	162	6.77	172	26.59	12.06
Flats	WBUFLT	20	500	24	604	-	-	-	-	2.96	1.34
	WBUFLT-12	12	250	24	604	-	-	-	-	1.50	0.68
	WBUFLT-06	6	150	24	604	-	-	-	-	1.00	0.45

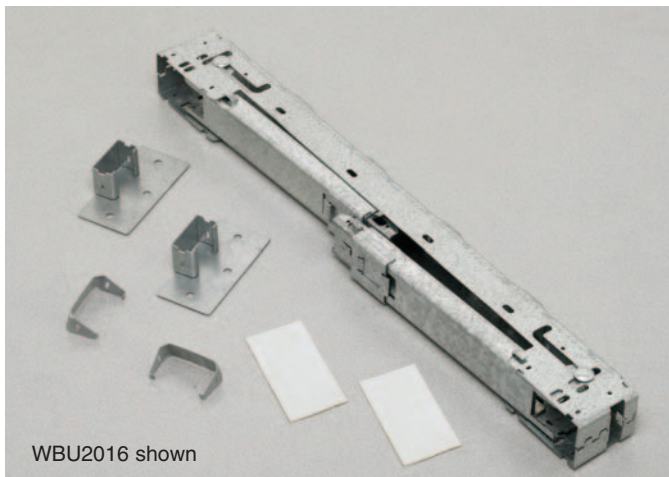
See page - 2 for finish information

Flextray™ - F.A.S.T. Underfloor System

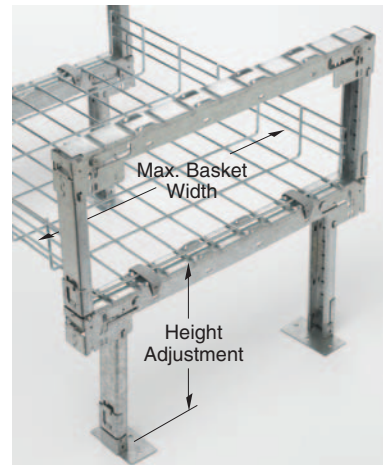
Stands



- No tools required for installation
- Formed top surface free of protrusions or sharp edges
- Up to 6" height adjustment
- Inside and outside leg positioning
- Folded and boxed for ease in shipping
- Patent Pending
- Stand part number includes:
 - one (1) stand
 - two (2) feet
 - two (2) adhesive pads
 - two (2) hold down clips
- Standard finish: Pre-Galvanized



WBW2016 shown



WBW2016 stands shown in double tier application.
Feet and adhesive pads not required for second tier assembly.

Part Number	Max. Basket Width		Height Adjustment		Stands Per Box	Wt. Per Box	
	in.	mm	in.	mm		lbs.	kg
FTU120404	12	300	4	101	2	1.82	0.82
FTU120608	12	300	6-8	152-203	2	2.79	1.26
WBW1216	12	300	10-16	254-406	2	7.44	3.37
WBW1224 *	12	300	18-24	457-609	2	9.06	4.11
WBW1231 *	12	300	25-31	635-787	2	10.52	4.77
FTU200404	20	500	4	101	2	2.34	1.06
FTU200608	20	500	6-8	152-203	2	3.36	1.52
WBW2016	20	500	10-16	254-406	2	8.56	3.88
WBW2024	20	500	18-24	457-609	2	10.20	4.62
WBW2031 *	20	500	25-31	635-787	2	11.64	5.28

* Legs are packed separately in box and not inserted in stand.

See page - 2 for finish information

Cantilever Kits & Accessories



- No tools required for installation
- Simple design for tiered applications
- Available in kits or individual parts
- Adjustable shelf height
- Formed top surface has no sharp edges
- Can be installed independent of raised floor
- Standard finish: Pre-Galvanized



Adjustability of shelf brackets

WBUCK812 Double Tier Cantilever Kit Shown with WBU2016 Stand



WBUCK12 - Single Tier Cantilever Kit Includes

- (1) WBUCB12
- (1) WBUL16
- (1) WBUFCF
- (2) WBUHD



WBUCK812 - Double Tier Cantilever Kit Includes

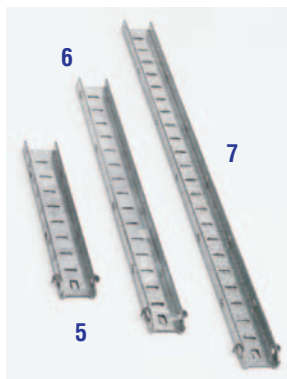
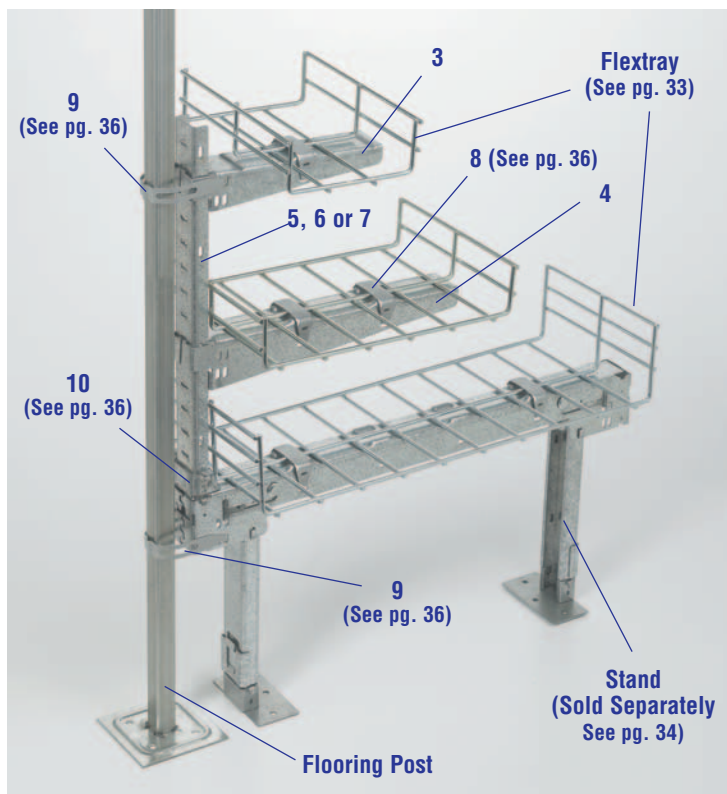
- (1) WBUCB8
- (1) WBUCB12
- (1) WBUL24
- (1) WBUFCF
- (3) WBUHD



WBUCB8



WBUCB12



Part Number	Item #	Description	Max Height †		Box Qty.	Wt. Per Box	
			in.	mm		lbs.	kg
WBUCK12 *	1 ^Δ	Cantilever Kit - Single Tier with 12" Bracket	7.30	185	10	15.62	7.08
WBUCK812	2 ^Δ	Cantilever Kit - Double Tier with 8" & 12" Brackets	15.25	387	10	25.40	11.52
WBUCB8	3	8" Cantilever Bracket for 6" Flextray	-	-	10	5.51	2.50
WBUCB12	4	12" Cantilever Bracket for up to 12" Flextray	-	-	10	9.16	4.15
WBUL16	5	Short Vertical Support	7.30	185	10	4.37	1.98
WBUL24	6	Medium Vertical Support	15.25	387	10	8.45	3.83
WBUL31	7	Tall Vertical Support	22.25	565	10	12.07	5.47

* For use with 2" and 4" deep Flextray on the lower level.

† Height - from top of stand

Δ Stand not included

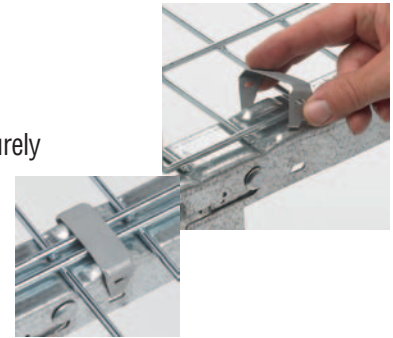
See page - 2 for finish information

Flextray™ - F.A.S.T. Underfloor System

Hold Down Clip



- Spring steel clip to attach Flextray to stands
- No tools required for installation
- Holds both continuous and spliced wire sections securely
- Works with stands and cantilever brackets



Part Number	Item #	Description	Box Qty.	Wt. Per Box	
				lbs.	kg
WBUHD	8	Basket Clip	50	1.10	0.50

Pedestal Clip



- Optional spring steel clip to give added rigidity to system
- Works with stands and cantilever brackets

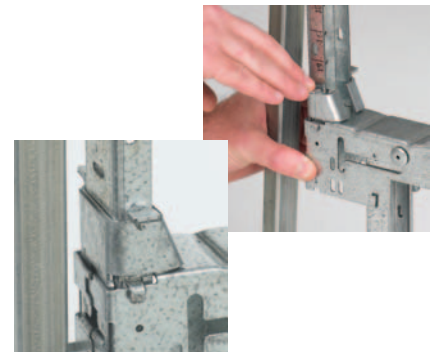


Part Number	Item #	Description	Box Qty.	Wt. Per Box	
				lbs.	kg
WBUPC	9	Pedestal Clip	50	1.65	0.75

Cantilever Foot

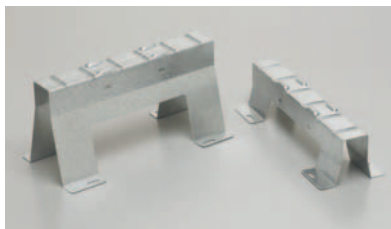


- Secures vertical support into stand top
- Only required when stand legs are in the inner position

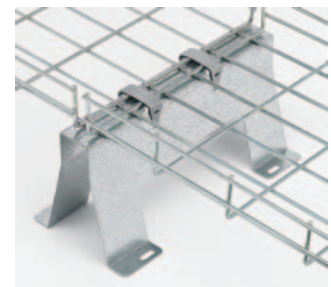


Part Number	Item #	Description	Box Qty.	Wt. Per Box	
				lbs.	kg
WBUCF	10	Cantilever Foot	50	8.65	3.92

Under Floor Stand



- Heights of 3", 4", 5" or 6"
- Leg cutout allows for airflow
- No tools required to mount Flextray to stand
- Use WBUHD hold down clips to secure basket
- Stand width is 12"
- Fasten to floor for maximum stability
- Floor mounting slot size: .313" (7.9mm) x .813" (20.6mm) for 1/4" hardware

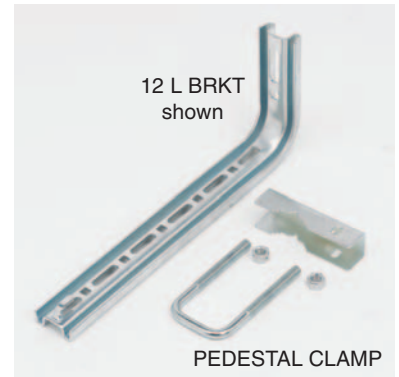


Part Number	Overall Height		Wt. Per Each	
	in.	mm	lbs.	kg
WBU1203	3	76	1.32	0.60
WBU1204	4	101	1.60	0.72
WBU1205	5	127	1.88	0.85
WBU1206	6	152	2.17	0.98

See page - 2 for finish information

L Bracket & Toolless Clip

- For use when access to ground floor is limited
- Use with round post sizes 0.9" (25mm) through 1.2" (30mm)
- Use with square posts
- Order clamps and brackets separately
- Built-in tab for hold down
- Tool-less Clip (plenum-rated material) - Snap-in locking pin securely holds basket to bracket



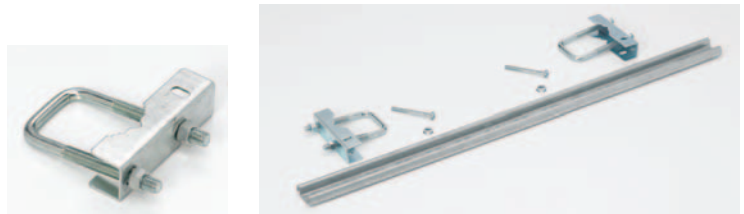
Part Number	Description	Qty.	Wt. Per Box	
			lbs.	kg
TOOLLESS CLIP	Tool-less Hold-Down Clip	50/Box	1.00	0.45

Brackets (Zinc Plated)

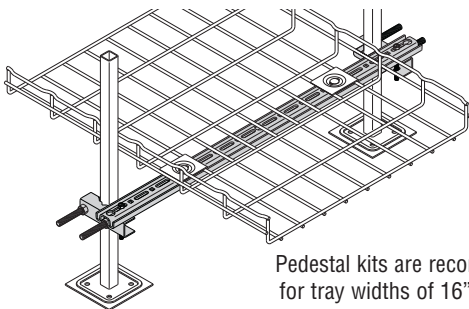
Part Number	System Width		Length		Box Qty.	Wt. Per Box	
	in.	mm	in.	mm		lbs.	kg
8 L BRKT	6-8	150-200	8	200	1	0.80	0.36
12 L BRKT	12	300	12	300	1	1.30	0.59

- Clamps to existing raised-access floor stanchion
- Use L BRKT (shown above) or full pedestal kit to support trays under the raised access floor (sold separately)
- For tray widths 2" (50mm) to 20" (500mm)
- *Pedestal Clamp Kit includes two (2) pedestal clamps, 28" (711mm) profile section, bolts & nuts
- Kits include hardware
- Finishes __: **EG**

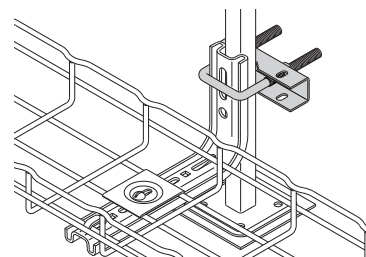
Pedestal Clamp & Kit



Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
PEDESTAL CLAMP__	Pedestal Clamp	1	0.6	0.27
PEDESTAL KIT__	Pedestal Clamp Kit	1*	3.3	1.49

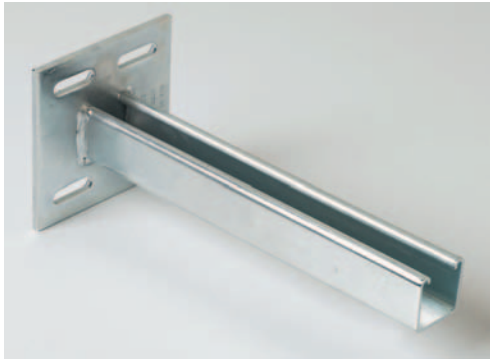


Pedestal kits are recommended for tray widths of 16" (400mm) or greater

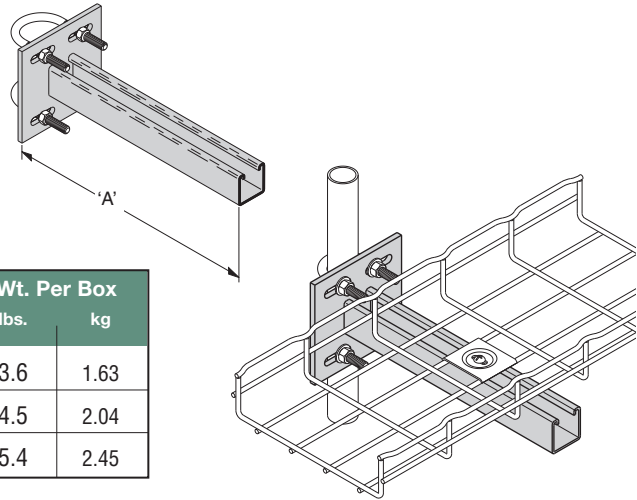


See page - 2 for finish information

Under Floor Support Bracket



- Under Floor Support Bracket provides rugged support for Flextray System from access floor post.
- To complete the installation, the following hardware must be ordered separately.
 - (2) - B501 U-Bolts
 - (1) - SUPT WASHER Hold Down
 - (1) - 1/4"-20 x 1" Slotted Head Screw
 - (1) - N224WO Channel Nut
- Finish: **ZN**

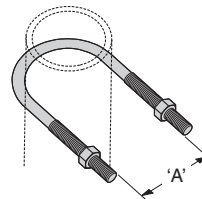


Part Number	'A'		Thread		Box Quantity	Wt. Per Box	
	in.	mm	in.	mm		lbs.	kg
B409UF-12	12"	300	12"	300	1	3.6	1.63
B409UF-18	18"	450	18"	450	1	4.5	2.04
B409UF-21	21"	533	21"	533	1	5.4	2.45

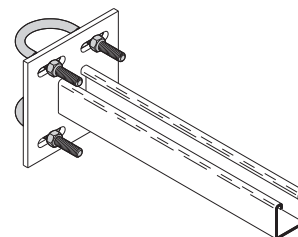
U-Bolts



- Designed for attachment of Under Floor Support Brackets to access floor post. Each U-Bolt includes two (2) hex nuts.
- Finish: **ZN**



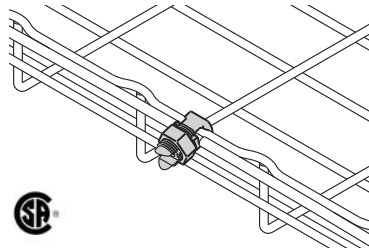
Part Number	'A'		Thread Size	Box Quantity	Wt. Per Box	
	in.	mm			lbs.	kg
B501-1	1 3/8"	30	5/16"-18	50	7.0	3.17
B501-1 1/2	2"	50	5/16"-18	50	8.0	3.63
B501-2	2 7/16"	62	3/8"-16	20	5.4	2.45
B501-2 1/2	2 15/16"	75	3/8"-16	25	8.0	3.63



See page - 2 for finish information

Flextray™ - F.A.S.T. Underfloor System

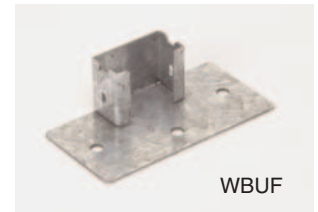
- Attaches up to #1 ground wire to each tray section when separate ground wire is required
- Used for UL grounding compliance.
- When using color powder coated finish or paint, coating must be removed at the points of contact.
- Finish: Copper Plated



Ground Bolt



Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
GROUND BOLT	Ground Bolt	1	0.11	0.05



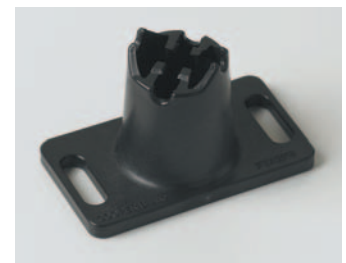
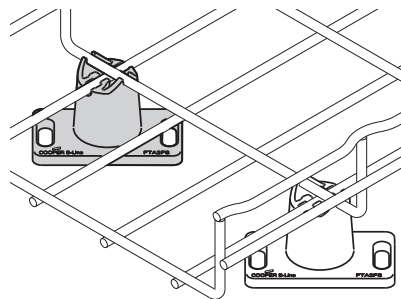
Adhesive & Feet

- WBUTAPE - Double-sided adhesive pads for temporary positioning of floor stands
Pad Size: 2" (50mm) x 4" (100mm)
- WBUFA - Adhesive to secure stand to floor

Part Number	Description	Box Qty.	Wt. Per Box	
			lbs.	kg
WBUF	Stand Foot	10	2.36	1.07
WBUTAPE	Double-Sided Tape	50	2.50	1.13
WBUFA	Floor Adhesive	1 Gallon	10.78	4.89

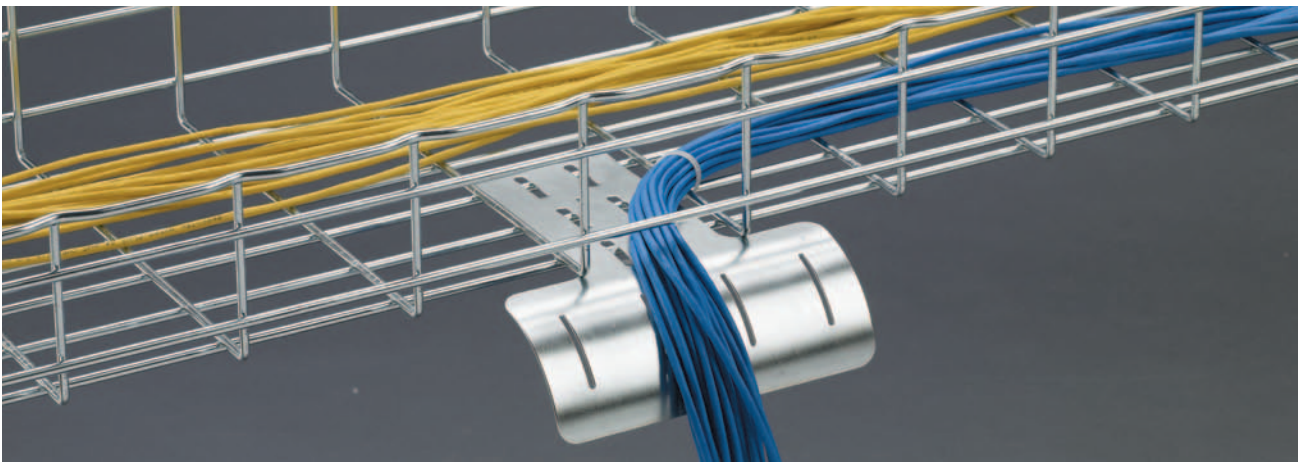
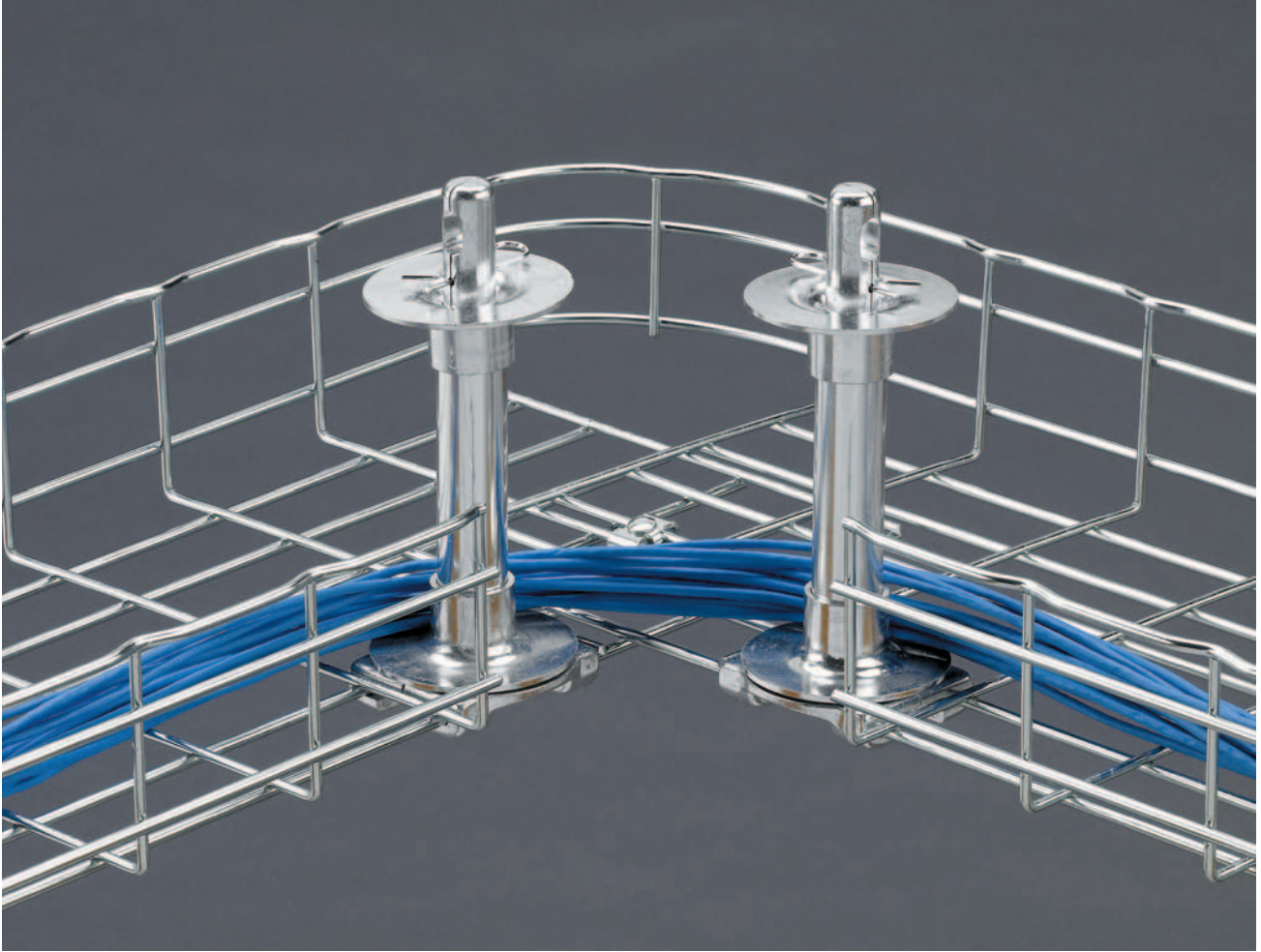
Floor Stand

- Non-metallic snap lock floor stand is designed for use under access floors.
- Floor stand elevates Flextray System 1⁵/₈" (41.3mm) above the floor.
- To attach floor stand, use Liquid Nails™ or anchors.
- Elevation increments of 1³/₈" (35mm) can be obtained by stacking floor stands.
- Sized for 1/4" hardware (order separately).
- Material: Black Plenum-rated Plastic



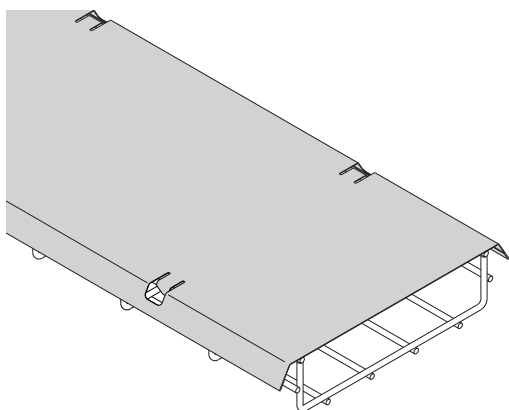
Part Number	Wt. Per Pc.		Box Quantity
	lbs.	kg	
FTA2FS	0.44	0.20	10

See page - 2 for finish information

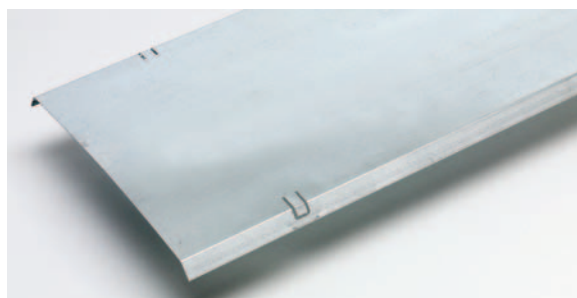


Covers

- Protects cable from debris and dust
- Adds security to cable installation
- Easy bend-over tabs secure cover to trays
- Available for 2" (50mm) to 24" (600mm) wide trays
- Comes in 118" (2997mm) length
- Finishes __: **GS**, BLE, 304S, 316S



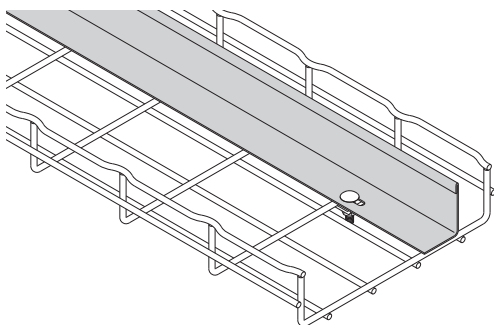
Part Number	Use With Tray Width	Qty./Box	Wt./Box	
			lbs.	kg
2 IN COVER __	2" (50mm)	1	3.8	1.72
4 IN COVER __	4" (100mm)	1	5.7	2.58
6 IN COVER __	6" (150mm)	1	6.7	3.04
8 IN COVER __	8" (200mm)	1	8.7	3.94
12 IN COVER __	12" (300mm)	1	11.6	5.26
16 IN COVER __	16" (400mm)	1	15.6	7.07
18 IN COVER __	18" (450mm)	1	17.0	7.71
20 IN COVER __	20" (500mm)	1	18.5	8.39
24 IN COVER __	24" (600mm)	1	22.0	9.98



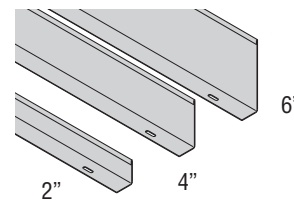
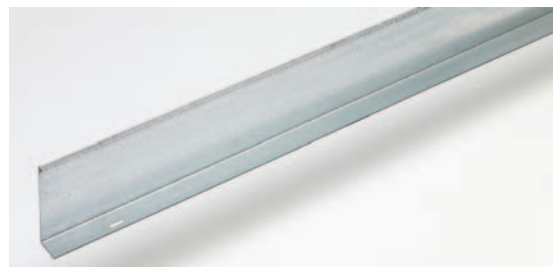
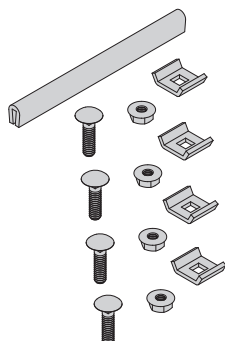
Dividers

- Allows cable separation within a single tray
- Hemmed/rounded edge provides cable jacket safety
- Hardware included
- Field miter for bends and turns
- Dual slots every 24" (609mm) for field cutting
- Available in 2" (50mm), 4" (100mm) and 6" (150mm) heights
- Comes in 118.125" (3000mm) length
- Finishes __: **GS**, BLE, 304S, 316S

Part Number	Use With Tray Depth	Qty./Box	Wt./Box	
			lbs.	kg
2 IN DIVIDER __	2" (50mm) Deep	1	3.5	1.59
4 IN DIVIDER __	4" (100mm) Deep	1	9.6	4.35
6 IN DIVIDER __	6" (150mm) Deep	1	14.5	6.58



Dividers include hardware shown below

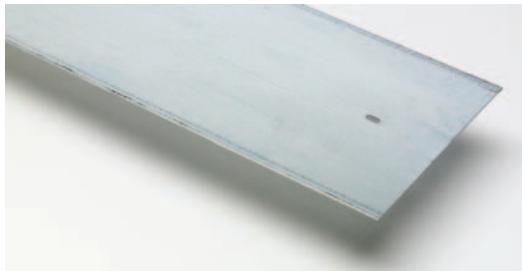


See page - 2 for finish information

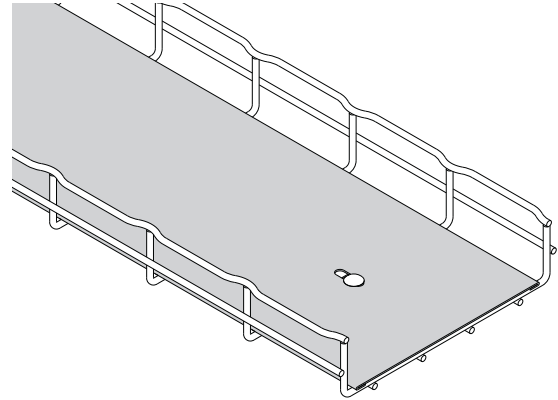
Solid Bottom Inserts

Part Number	Use With Tray Width	Qty./Box	Wt./Box	
			lbs.	kg
INSERT 4X118__	4" (100mm)	1	6.8	3.08
INSERT 6X118__	6" (150mm)	1	9.8	4.44
INSERT 8X118__	8" (200mm)	1	13.3	6.03
INSERT 12X118__	12" (300mm)	1	21.6	9.80
INSERT 16X118__	16" (400mm)	1	26.4	11.97
INSERT 18X118__	18" (450mm)	1	32.4	14.69
INSERT 20X118__	20" (500mm)	1	32.9	14.92
INSERT 24X118__	24" (600mm)	1	39.3	17.82

Attach with
FTHDWE 1/4" &
Top Washer



- Continuous support for sensitive cables
- Security of cable in high-traffic areas
- Hardware included
- Available for 2" (50mm) to 24" (600mm) wide trays
- Comes in 118" (2997mm) length
- Finishes __: **GS**, BLE, 304S, 316S



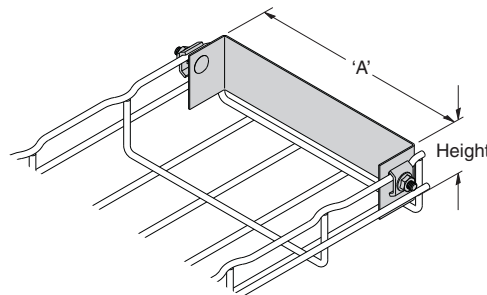
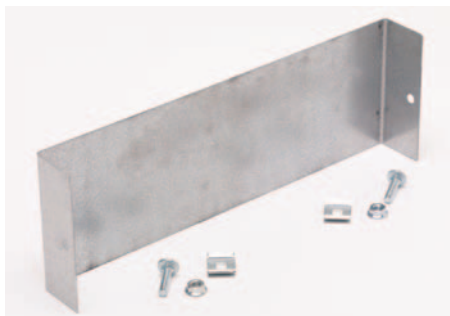
Blind Ends

Part Number	'A'		Height		Box Quantity
	in.	mm	in.	mm	
FT BE 2X2	2"	50	2"	50	1
FT BE (*)X4	4"	100	(*)	(*)	1
FT BE (*)X6	6"	150	(*)	(*)	1
FT BE (**X8	8"	200	(*)	(*)	1
FT BE (**X12	12"	300	(**)	(**)	1
FT BE (**X16	16"	400	(**)	(**)	1
FT BE (**X18	18"	450	(**)	(**)	1
FT BE (**X20	20"	500	(**)	(**)	1
FT BE (**X24	24"	600	(**)	(**)	1

- Forms a closure for a dead-end Flextray
- Hardware included
- Finish: **GLV**, SS6

(*) Insert: 2 = 2" (50 mm), 4 = 4" (100 mm) for height

(**) Insert: 2 = 2" (50 mm), 4 = 4" (100 mm),
6 = 6" (150 mm) for height

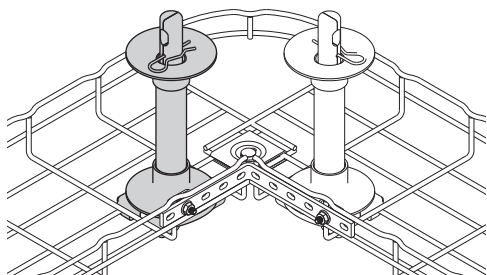


See page - 2 for finish information

Cable Roller

- Protects and maintains recommended cable radii for Cat 5, Cat 5E, Cat 6, Cat 6A, Fiber, etc.
- Height of roller can be adjusted to tray depth
- Installs in seconds with no tools
- Reduces cable installation time
- Prevents migration of cables
- For use with 4" (100mm) to 32" (800mm) tray widths
- Finish: Cast Aluminum

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
CABLE ROLLER	Cable Roller	1	1.0	0.45

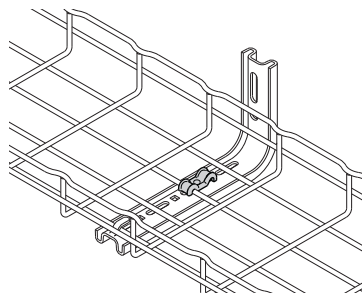


Quick, snap-together design

Toolless Clip

- Securely holds tray to support
- Snap-in locking pin
- No tools or fastening required
- Fastest hold-down method available
- For use with the following:
 - FTB_CS (see pg. 27)
 - L BRKT (see pg. 27)
 - C BRKT (see pg. 31)
- Finish: Plenum rated resin (black)

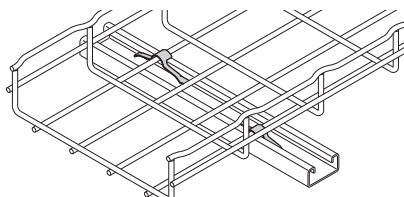
Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
TOOLESS CLIP	Toolless Hold-Down Clip	50	1.0	0.45



Strut Mounting Clip

- Use to secure Flextray to horizontal strut support
- Designed for use as shown in drawing (no load rating)
- Finish: Black Zinc Phosphate

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
BW4	Strut Mounting Clip	100	0.9	0.41



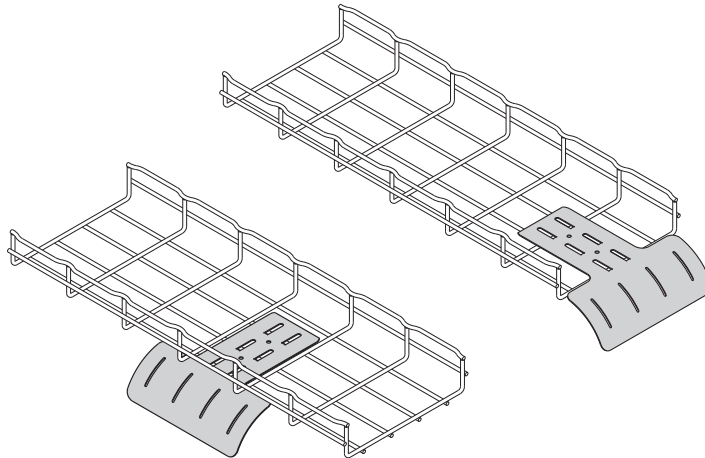
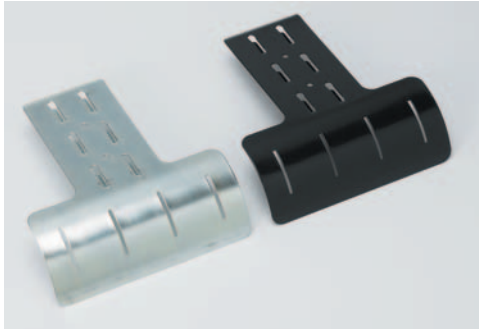
See page - 2 for finish information

Flextray™ - Accessories

Drop Out Fitting

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
DROP OUT__	Drop Out Fitting	1	0.5	0.22

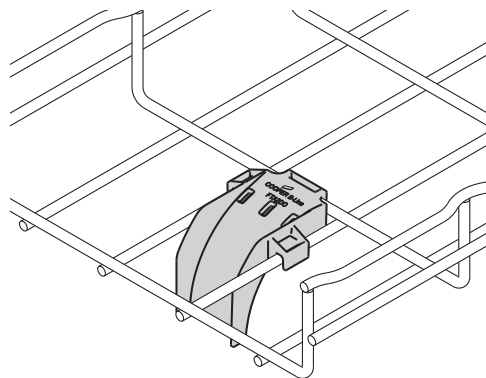
- Keeps cable radius secure at drop point
- For use with 4" (100mm) to 32" (800mm) wide trays
- Attaches to tray without hardware
- Drop outs can be attached at bottom, side or ends of tray
- Hold down tabs on bottom of drop out to secure tray (tabs not available on stainless steel drop out)
- Finishes __: **EG**, BLE



Cable Drop Out

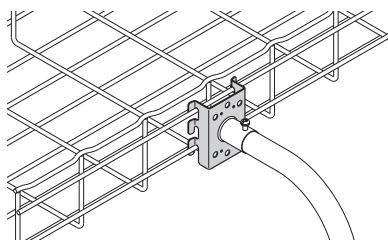
Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
FTA2DO	Cable Drop Out	10	0.17	0.08

- Non-metallic 2" (50mm) radius Cable Drop-Out snap locks into mesh bottom and protects cables from sharp bend
- Material: Black Plenum-rated Plastic



Conduit Connector

- Conduit connector is designed to connect conduit to the side or bottom of Flextray
- Conduit bushing will remain outside of tray to keep cable pathway clear
- Bend tabs to secure connector to tray
- No hardware included
- Finishes __: **GLV**

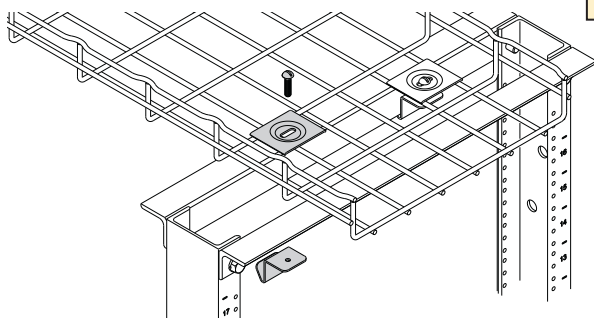


Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
FTA050CC __	1/2" (15mm) Conduit Clip	4	0.8	0.36
FTA075CC __	3/4" (20mm) Conduit Clip	4	1.0	0.45
FTA100CC __	1" (25mm) Conduit Clip	4	1.9	0.86
FTA125CC __	1 1/4" (32mm) Conduit Clip	4	2.6	1.18



Rack Clamp

- Securely holds tray down to rack
- Installs without drilling
- Black-painted finish to match rack
- Finish __: **BLE**

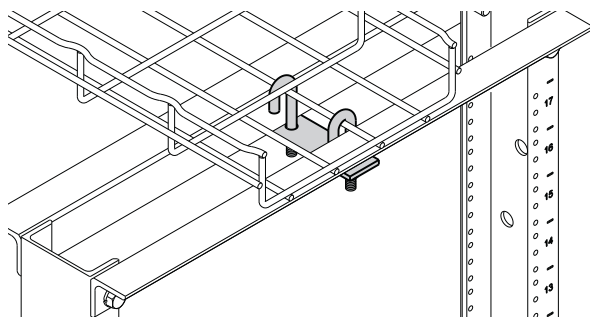


Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
RACK CLAMP __	Rack Clamp	4	4.7	2.13



Adaptor Kit

- Adaptor kit includes all hardware necessary to connect Flextray system to top of relay rack at right angle or parallel position
- Finish __: **YZN (Yellow Zinc Chromate)**



- Adaptor Kit includes:
- (1) - Mounting Plate
 - (2) - 5/16"-18 x 2" "J"-Bolts
 - (2) - HN 5/16"-18 Hex Nuts
 - (2) - LW 5/16" Lock Washers

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
SB2204 __	Adaptor Kit	1	0.37	0.17



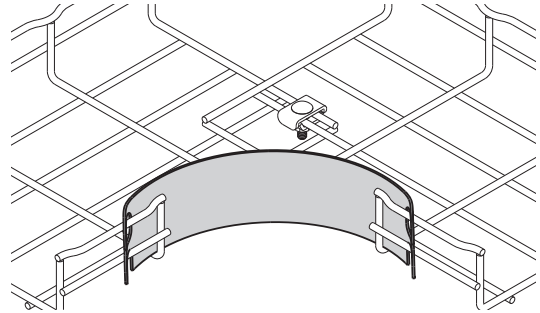
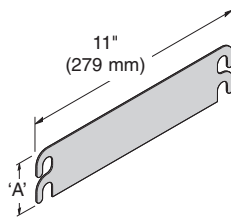
See page - 2 for finish information

Flextray™ - Accessories

Radius Shield

Part Number	Description		Qty./Box	Wt./Box	
	in.	mm		lbs.	kg
FTA2RS	2.5	63	20	7.2	3.2
FTA4RS	4.3	110	20	12.3	5.5
FTA6RS	5.9	150	20	21.6	9.8

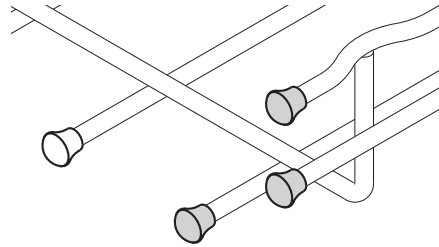
- Provides a smooth inside radius surface.
- No tools or fasteners needed to install.
- Sizes for 2", 4" & 6" deep Flextray; 90° horizontal bends, tees, and crosses.
- Installs in seconds. Simply hold in place and bend back tabs.
- Slick surface to reduce cable friction.
- Material: Black Polycarbonate



Rubber Cap

Part Number	Box Quantity	Wt. Per 100	
		lbs.	kg
B719EB	100	0.20	0.10

- Install on wire ends if required. Fits all wire diameters



Touch-Up Paint

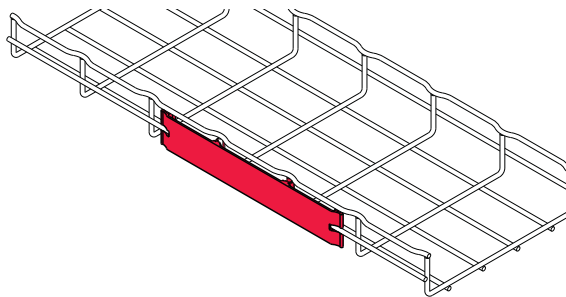
Part Number	Color	Box Quantity	Wt. Per Pc.	
			lbs.	kg
SB420ATG	Gray Lacquer	1	0.9	0.41
SB420AFB	Flat Black Lacquer	1	0.9	0.41
SB420ACW	Computer White Lacquer	1	0.9	0.41
B999	Silver Zinc-Rich Paint	1	0.9	0.41

- Size: 12 ounce aerosol can
- Cannot ship air freight

See page - 2 for finish information

Label Clip

- Clips easily into trays
- Use for identifying your cable pathways
- Can be used on all tray sizes
- Will not fit on side of 1 1/2" deep Flextray
- Finish: Non-plenum-rated resins

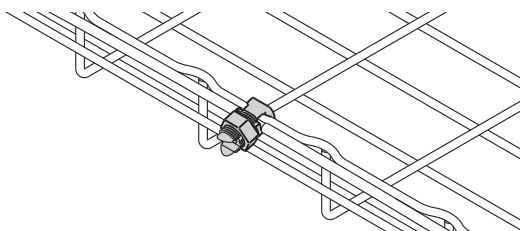


Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
LABEL CLIP	10 1/2" (267mm) Long	10	0.6	0.27



Ground Bolt

- Attaches up to #1 ground wire to each tray section when separate ground wire is required
- Used for UL grounding compliance.
- When using color powder coated finish or paint, coating must be removed at the points of contact.
- Finish: Copper Plated

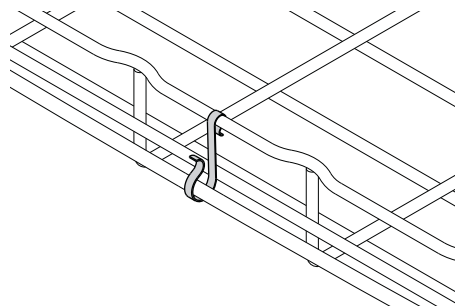


Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
GROUND BOLT	Ground Bolt	1	0.11	0.05



Ground Wire Supports

- Supports ground wire along side of tray
- Can be used on all trays
- Finish __: Zinc Plated



Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
GROUND SUPT GL	Ground Wire Support	100	0.6	0.27



See page - 2 for finish information

Flextray™ - Accessories

- Complete source of hardware for ceiling connections
- Available in stock
- Strut can be purchased in pre-cut lengths and various colors
- All hardware is zinc plated

Threaded Rod



Part Number	Size	Qty.	Wt./Qty.	
			lbs.	kg
ATR1/4x72	1/4" x 72" (1828mm)	1	0.7	0.31
ATR1/4x120	1/4" x 120" (3048mm)	1	1.2	0.54
ATR1/4x144	1/4" x 144" (3657mm)	1	1.4	0.63
ATR3/8x72	3/8" x 72" (1828mm)	1	1.7	0.77
ATR3/8x120	3/8" x 120" (3048mm)	1	2.9	1.31
ATR3/8x144	3/8" x 144" (3657mm)	1	3.5	1.58
ATR1/2x72	1/2" x 72" (1828mm)	1	3.2	1.45
ATR1/2x120	1/2" x 120" (3048mm)	1	5.4	2.45
ATR1/2x144	1/2" x 144" (3657mm)	1	6.5	2.95

Lock Washers



Part Number	Size	Qty.	Wt./Qty.	
			lbs.	kg
1/4LW	1/4"	200	0.6	0.27
3/8LW	3/8"	200	1.6	0.72
1/2LW	1/2"	200	2.0	0.91

Flat Washers



Part Number	Size	Qty.	Wt./Qty.	
			lbs.	kg
1/4FW	1/4"	200	1.2	0.54
3/8FW	3/8"	200	3.0	1.36
1/2FW	1/2"	200	6.6	2.99

Rod Couplings



Part Number	Size	Qty.	Wt./Qty.	
			lbs.	kg
B655-1/4	1/4"-20	50	2.0	0.91
B655-3/8	3/8"-16	50	5.5	2.49
B655-1/2	1/2"-13	50	6.0	2.72

Square Washers



Part Number	Hole Size	Qty.	Wt./Qty.	
			lbs.	kg
B201	7/16	50	6.0	2.72
B202	9/16	50	7.0	3.17

Hex Nuts



Part Number	Size	Qty.	Wt./Qty.	
			lbs.	kg
1/4HN	1/4"-20	100	0.6	0.27
3/8HN	3/8"-16	100	1.6	0.72
1/2HN	1/2"-13	100	4.3	1.95

Beam Clamps



Part Number	Size	Qty.	Wt./Qty.	
			lbs.	kg
B3036L-3/8	3/8"-16	100	60.0	27.2
B3036L-1/2	1/2"-13	100	140.0	63.5

See page - 2 for finish information

Beam Clamps



Part Number	Size	Qty.	Wt./Qty.	
			lbs.	kg
B444-1/4	1/4"-20	100	160	72.5
B444-3/8	3/8"-16	100	430	195.0
B444-1/2	1/2"-13	100	430	195.0

U-Bolt Clamps



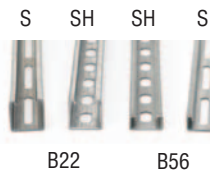
Part Number	Size	Qty.	Wt./Qty.	
			lbs.	kg
B441-22	3/8"-16 x 3 3/8" long	100	160	72.5

Spring Nuts



Part Number	Thread Size	Qty.	Wt./Qty.	
			lbs.	kg
N224	1/4"-20	100	6.5	2.95
N228	3/8"-16	100	9.3	4.22
N225	1/2"-13	100	11.3	5.12

Bolted Framing



Part Number	Channel Size	Qty.	Wt./Qty.	
			lbs.	kg
B22SGALV120	1 5/8" x 120" - 12 ga.	1	6.0	2.72
B22SHGALV120	1 5/8" x 120" - 12 ga.	1	6.0	2.72
B56SGALV120	1 3/16" x 120" - 15 ga.	1	7.0	3.17
B56SHGALV120	1 3/16" x 120" - 15 ga.	1	6.0	2.72

Concrete Rapid Rod Hanger



Part Number	Rod Size	Shank Size	Qty.	Wt./Qty.	
				lbs.	kg
ARC-37-150	3/8"	1/4" x 1 1/2"	100	3.4	1.54

Wood Rapid Rod Hanger



Part Number	Rod Size	Shank Size	Qty.	Wt./Qty.	
				lbs.	kg
ARW-37-200	3/8"	1/4" x 2"	100	3.4	1.54
ARW-37-200SW	3/8"	1/4" x 2"	100	3.4	1.54

SW = Side Mount

Steel Rapid Rod Hanger



Part Number	Rod Size	Shank Size	Qty.	Wt./Qty.	
				lbs.	kg
ARS-37-150	3/8"	1/4" x 1 1/2"	100	3.4	1.54
ARS-37-150SW	3/8"	1/4" x 1"	100	3.4	1.54

SW = Side Mount

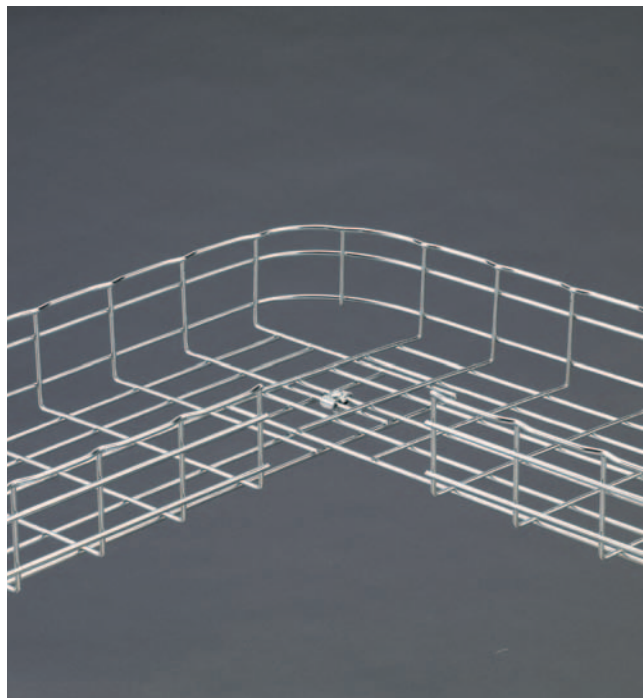
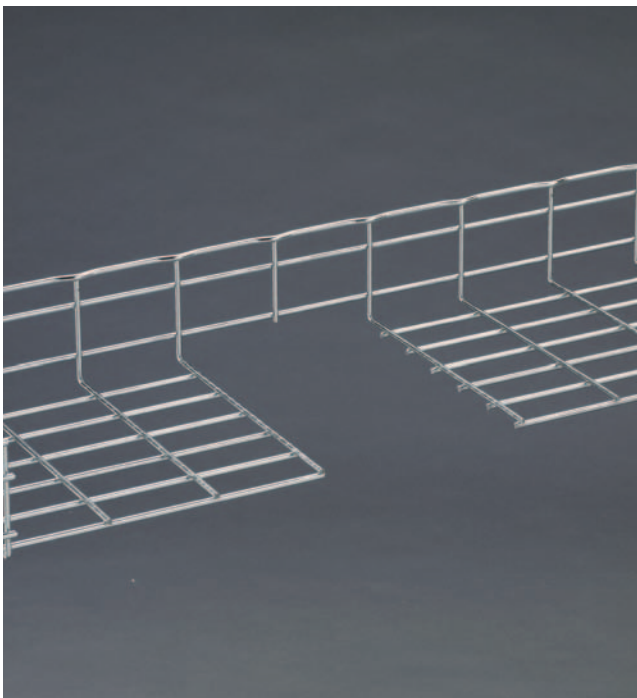
Sockets for Rapid Rod Hangers

Part Number	Hole Size	Qty.	Wt./Qty.	
			lbs.	kg
7187	Universal Steel & Wood Socket	1	4.5	2.04
7197	3/8" Concrete Socket	1	4.5	2.04

See page - 2 for finish information

Flextray™ - Installation

Installation



Flextray Cutters



Patented

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
CLEANSHEAR	Cleanshear™ Cutting Tool	1	4.3	1.95

- Exclusive, patented Cleanshear cuts tray fast
- No sharp edges
- Designed specifically for cutting Flextray
- Safely cut and bend Flextray into any configuration



1 Face tray up. Slide cutter next to vertical wire and cut.



2 Turn tray to the side with open side facing you. Repeat step 1 to cut wire.



3 Finish cutting all side wires.



4 Turn tray open-side down and cut wires from bottom of tray.



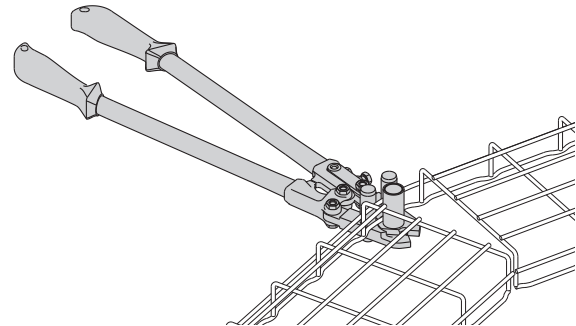
5 Finish cutting by moving to other side of tray to cut remaining wires,

Flextray™ - Installation

Flextray Bender

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
CLEANSHEAR BEND	Cleanshear Cutting Tool With Bender Attachment	1	5.4	2.45

- Cleanshear™ Bender has our exclusive bending attachment
- Makes bending larger trays easy
- Recommended for bending tray widths of 16" (400mm) or greater

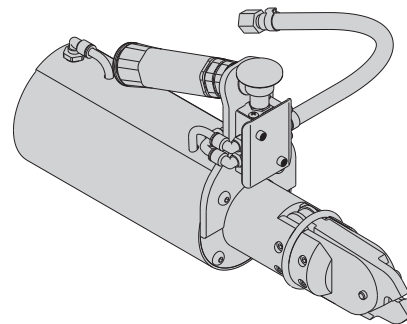


Patented

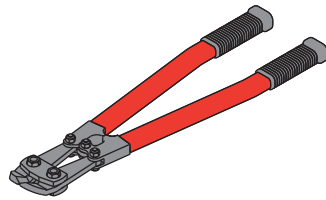
Airshear Cutter

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
AIRSHEAR	Pneumatic Cleanshear Cutting Tool	1	9.0	4.08

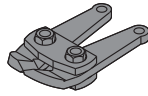
- Fastest wire mesh cutter available
- 57% time savings over regular Cleanshear
- Airshear is available when you have a large project to install. Call us for details.



Patented



WB30BC
Angular Bolt Cutter

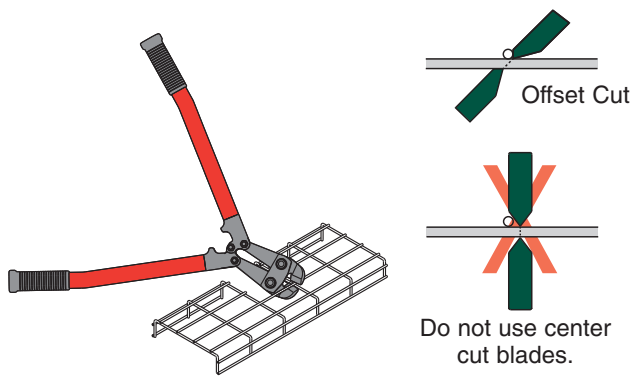


WB30RB
Replacement Blade

Angular Bolt Cutter

Part Number	Description	Qty./Box	Wt./Box	
			lbs.	kg
WB30BC	Bolt Cutter	1	6.8	3.1
WB30RB	Replacement Blade	1	1.3	0.6

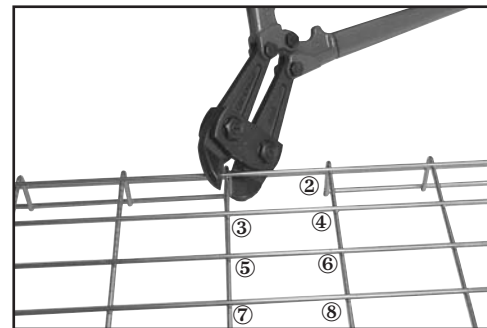
Completely adaptable, Cooper B-Line's Flextray is designed to accommodate jobsite changes. Cut wires with Cooper B-Line's Angular Bolt Cutter, bend to create a bend, tee, or reducer.



For the best results, use a WB30BC Angular Blade Offset Bolt Cutter with 24" (600 mm) long handles. The Offset Blade Cutter produces a clean cut. Position bolt cutter blades near the cross wire and perpendicular to wire to be cut (see illustration above). Proper cut will make the assembly faster, easier and safer while minimizing grinding.

Cut and remove each wire as illustrated below. Follow cutting pattern and blade positioning. Placing Flextray open side down provides the optimum cutting angle.

Cutting Order



Part Number	Length		Wt. Per Cutter		Box Quantity
	in.	mm	lbs.	kg	
WB50WC	12 ³ / ₄ "	325	3.0	1.3	1

Part Number	Description	Box Quantity
WB50RB	Replacement Blade	1
WB50BA	Replacement Battery	1

The Greenlee cable wire cutter makes flush cuts without burrs. Will cut .191" diameter wire in 2 seconds. Cutting head rotates 330° for ease of positioning and the tool automatically retracts when cut is complete. Comes with 2 batteries, charger, and carrying case. Approximately 250 cuts per charge.

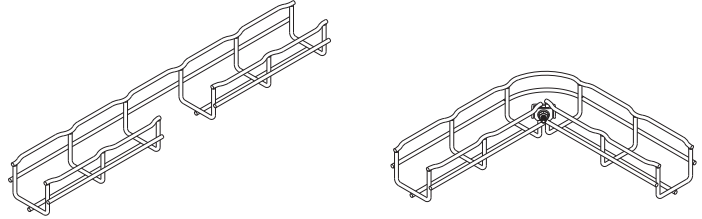
Flextray™ - Installation

90° Horizontal Bends (Short Radius)

- Make your own field cut horizontal bends using Clearshear™ to make safe, smooth cuts
- Can be made from any tray width and depth with any available finish
- SUPT WASHER & FTHDWE 1/4 hardware may be used on bottom of tray instead of WASHER SPL KIT where desired

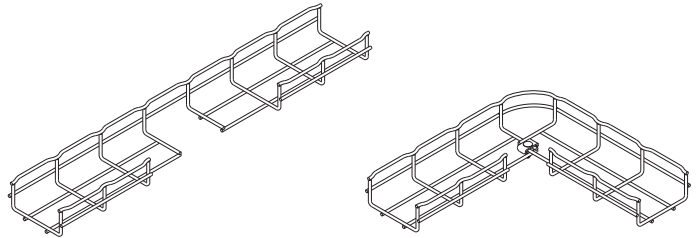
2" (50mm) Tray Width

Flextray Depth	Required Hardware Description	Quantity
2" (50mm)	WASHER SPL KIT	1



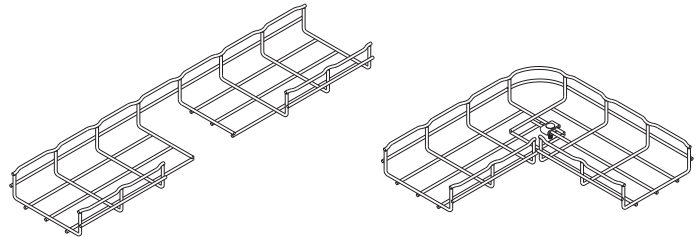
4" (100mm) Tray Width

Flextray Depth	Required Hardware Description	Quantity
1 1/2" (38mm)	WASHER SPL KIT	1
2" (50mm)	WASHER SPL KIT	1
4" (100mm)	WASHER SPL KIT	1



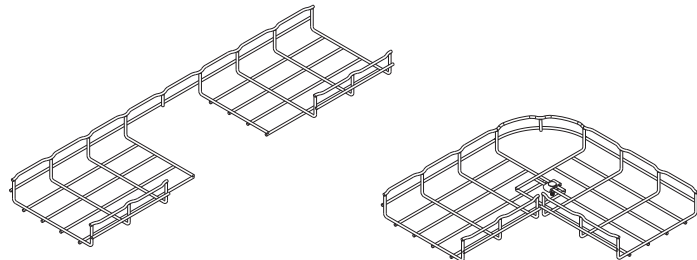
6" (150mm) Tray Width

Flextray Depth	Required Hardware Description	Quantity
1 1/2" (38mm)	WASHER SPL KIT	1
2" (50mm)	WASHER SPL KIT	1
4" (100mm)	WASHER SPL KIT	1



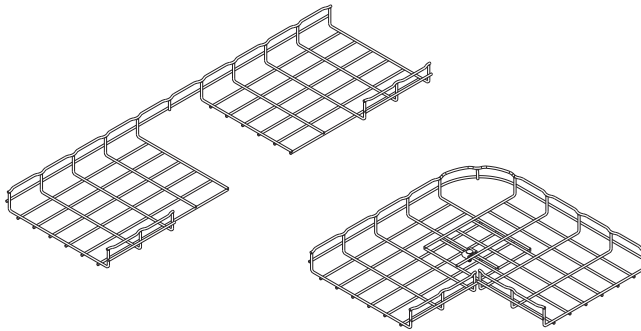
8" (200mm) Tray Width

Flextray Depth	Required Hardware Description	Quantity
1 1/2" (38mm)	WASHER SPL KIT	1
2" (50mm)	WASHER SPL KIT	1
4" (100mm)	WASHER SPL KIT	1
6" (150mm)	WASHER SPL KIT	1



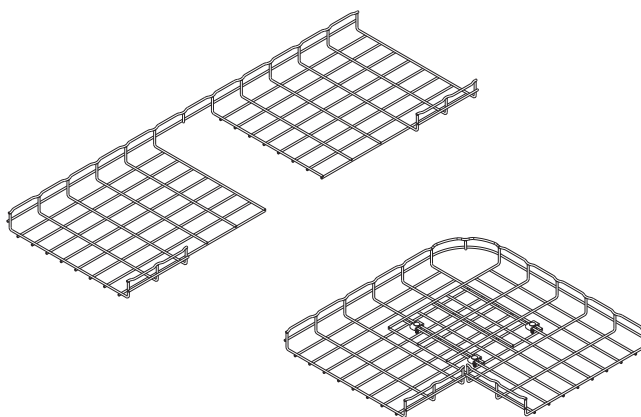
90° Horizontal Bends (Short Radius)

- Make your own field cut horizontal bends using Clearshear™ to make safe, smooth cuts
- Can be made from any tray width and depth with any available finish
- SUPT WASHER & FTTHDWE 1/4 hardware may be used on bottom of tray instead of WASHER SPL KIT where desired



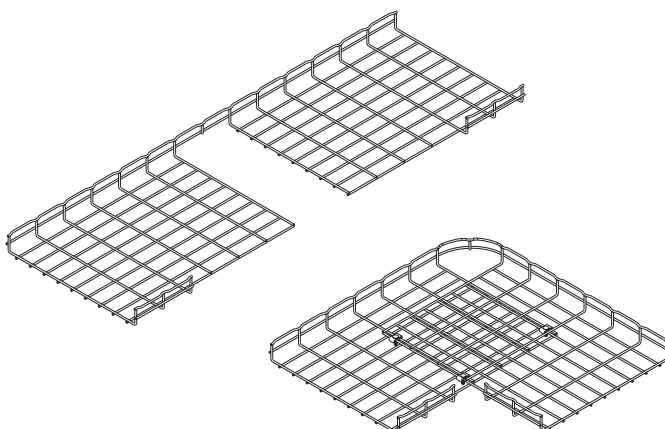
12" (300mm) Tray Width

Flextray Depth	Required Hardware Description	Quantity
1 1/2" (38mm)	WASHER SPL KIT	1
2" (50mm)	WASHER SPL KIT	1
4" (100mm)	WASHER SPL KIT	1
6" (150mm)	WASHER SPL KIT	1



16" (400mm) Tray Width

Flextray Depth	Required Hardware Description	Quantity
2" (50mm)	WASHER SPL KIT	3
4" (100mm)	WASHER SPL KIT	3
6" (150mm)	WASHER SPL KIT	3



18" (450mm) Tray Width

Flextray Depth	Required Hardware Description	Quantity
2" (50mm)	WASHER SPL KIT	3
4" (100mm)	WASHER SPL KIT	3
6" (150mm)	WASHER SPL KIT	3

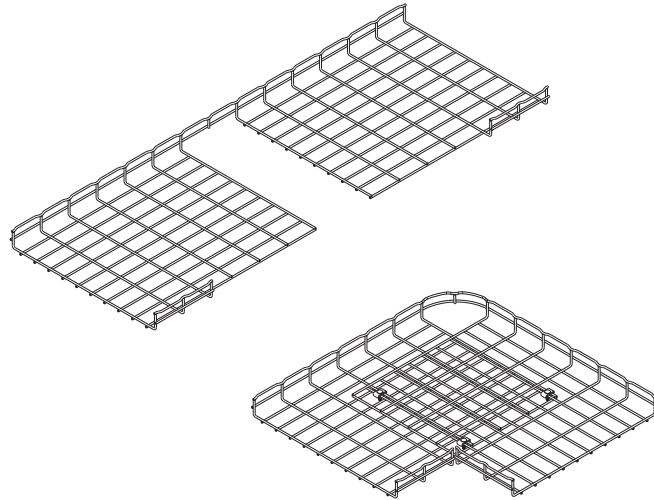
Flextray™ - Installation

90° Horizontal Bends (Short Radius)

- Make your own field cut horizontal bends using Clearshear™ to make safe, smooth cuts
- Can be made from any tray width and depth with any available finish
- SUPT WASHER & FTHDWE 1/4 hardware may be used on bottom of tray instead of WASHER SPL KIT where desired

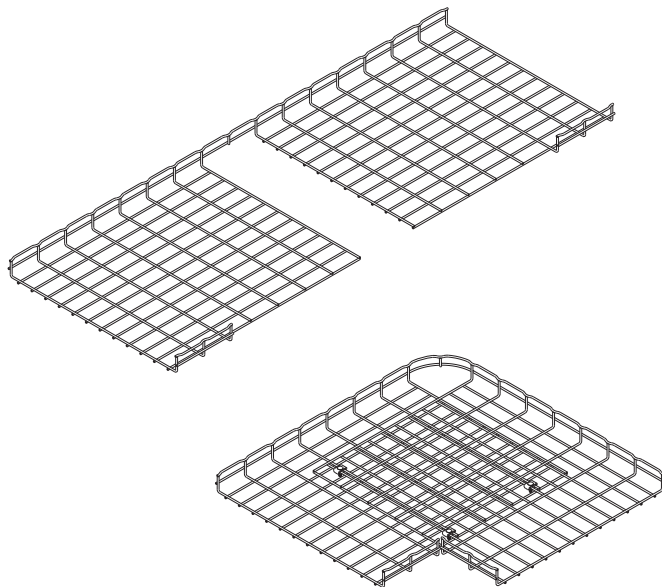
20" (500mm) Tray Width

Flextray Depth	Required Hardware Description	Quantity
2" (50mm)	WASHER SPL KIT	3
4" (100mm)	WASHER SPL KIT	3
6" (150mm)	WASHER SPL KIT	3



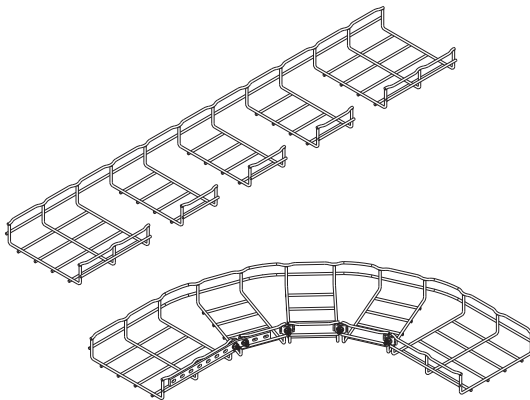
24" (600mm) Tray Width

Flextray Depth	Required Hardware Description	Quantity
2" (50mm)	WASHER SPL KIT	3
4" (100mm)	WASHER SPL KIT	3
6" (150mm)	WASHER SPL KIT	3



90° Horizontal Bends (Long Radius)

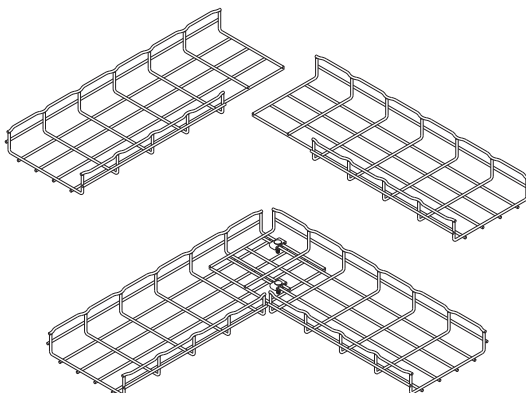
- Make your own field cut horizontal sweeps using Clearshear™ to make safe, smooth cuts
 - Can be made from any tray width and depth with any available finish
 - Cut as many Segments as required to control sweep radius (use chart for recommendations)
 - One (1) WASHER SPL KIT is required to connect each cut segment minus one, this segment uses one (1) SPLICE BAR, two (2) FTHDWE 1/4 and two (2) BTM WASHER
- Illustration shown below is for a 8" (200mm) width
 - 1.5" deep Flextray has only one (1) side wire
 - 2" deep Flextray has two (2) side wires - shown
 - 4" deep Flextray has three (3) side wires
 - 6" deep Flextray has four (4) side wires



Flextray Width	Segments To Be Removed	Component Qty.		
		WASHER SPL KIT	FTHDWE 1/4 & BTM WASHER	SPLICE BAR
4" (100mm)	2	1	2	1
6" (150mm)	3	2	2	1
8" (200mm)	4	3	2	1
12" (300mm)	6	5	2	1
16" (400mm)	7	6	2	1
18" (450mm)	8	7	2	1
20" (500mm)	10	9	2	1
24" (600mm)	11	10	2	1
30" (750mm)	13	12	2	1
32" (800mm)	13	12	2	1

90° Horizontal Bend From (2) Straight Sections

- Cut required number of wire side sections listed in chart per the illustration below (Illustration is for a 8" (200mm) width)
- 1.5" deep Flextray has only one (1) side wire
- 2" deep Flextray has two (2) side wires - shown
- 4" deep Flextray has three (3) side wires
- 6" deep Flextray has four (4) side wires

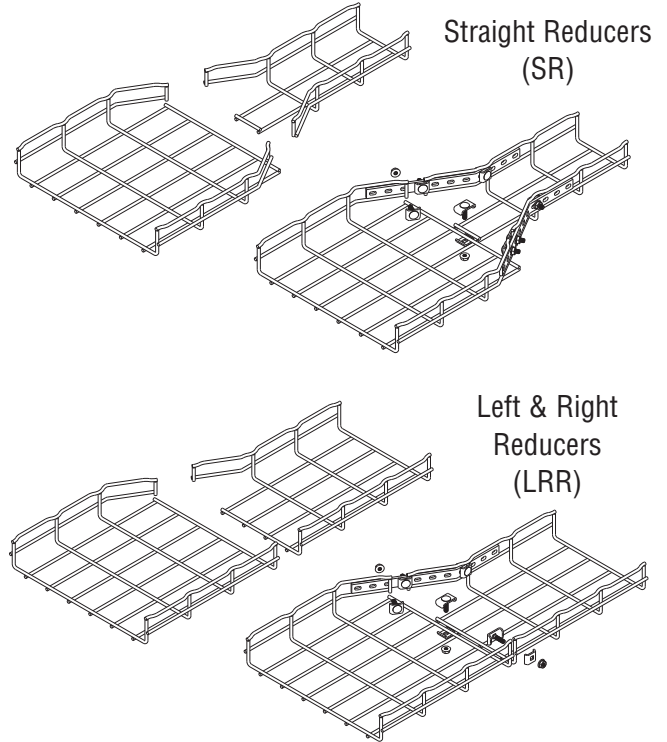


Flextray Width	Side Sections To Be Removed	WASHER SPL KIT Qty.
4" (100mm)	1	2
6" (150mm)	2	2
8" (200mm)	2	2
12" (300mm)	3	2
16" (400mm)	4	3
18" (450mm)	5	3
20" (500mm)	5	3
24" (600mm)	6	4
30" (750mm)	8	4
32" (800mm)	8	4

Flextray™ - Installation

Reducers

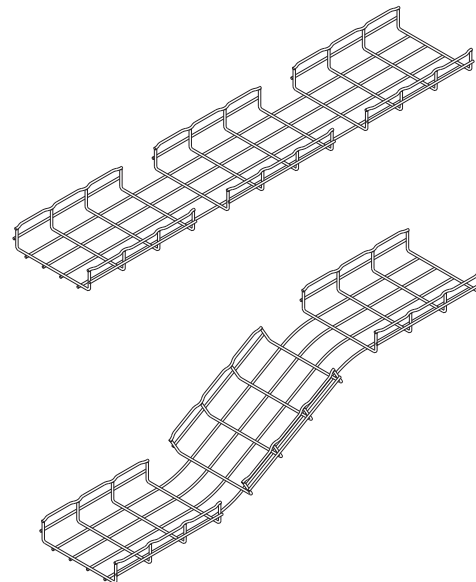
Large Flextray Width	WASHER SPL KIT		Component Qty. FTHDWE 1/4 & BTM WASHER		SPLICE BAR	
	(SR)	(LRR)	(SR)	(LRR)	(SR)	(LRR)
4" (100mm)	-	1	-	2	-	1
6" (150mm)	-	2	-	2	-	1
8" (200mm)	1	2	4	2	2	1
12" (300mm)	2	3	4	2	2	1
16" (400mm)	2	3	4	2	2	1
18" (450mm)	2	3	4	2	2	1
20" (500mm)	3	3	4	2	2	1
24" (600mm)	3	3	4	2	2	1
30" (750mm)	3	3	4	2	2	1
32" (800mm)	3	3	4	2	2	1



- 1.5" deep Flextray has only one (1) side wire
- 2" deep Flextray has two (2) side wires - shown
- 4" deep Flextray has three (3) side wires
- 6" deep Flextray has four (4) side wires

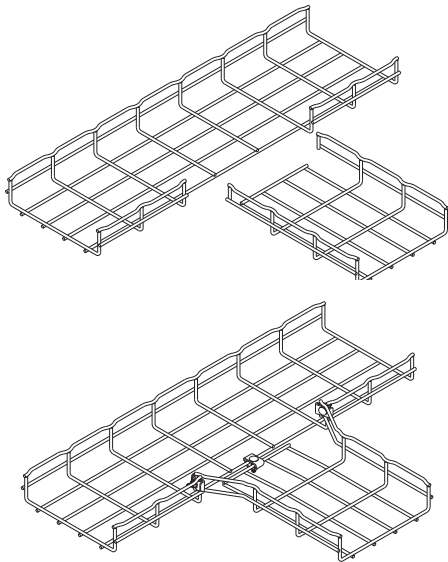
Vertical Inside & Outside Bends

- Cut wire section as shown and bend to desired angle
- 1.5" deep Flextray has only one (1) side wire
- 2" deep Flextray has two (2) side wires - shown
- 4" deep Flextray has three (3) side wires
- 6" deep Flextray has four (4) side wires



Horizontal Tees (and crosses)

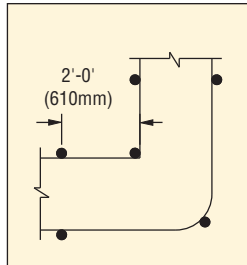
- Cut wire side sections as shown in the illustration below (Illustration is for a 8" (200mm) width)
- 1.5" deep Flextray has only one (1) side wire
- 2" deep Flextray has two (2) side wires - shown
- 4" deep Flextray has three (3) side wires
- 6" deep Flextray has four (4) side wires
- For crosses, duplicate process on opposite side



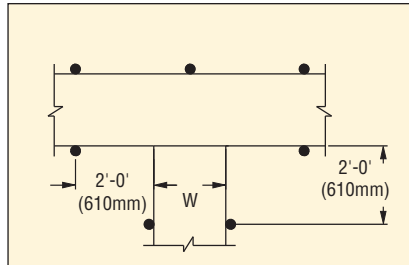
Flextray Width	WASHER SPL KIT Qty.
2" (50mm)	2
4" (100mm)	2
6" (150mm)	3
8" (200mm)	3
12" (300mm)	4
16" (400mm)	4
18" (450mm)	4
20" (500mm)	4
24" (600mm)	4
30" (750mm)	5
32" (800mm)	5

Recommended Support Locations For Fabricated Tray Fittings

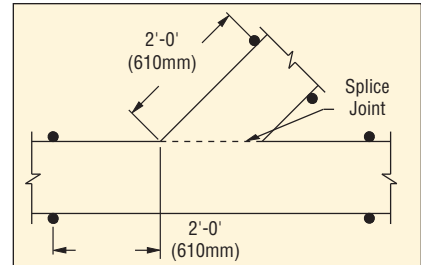
The following are recommended support diagrams to serve as guidelines for installing wire basket cable support systems in the field. The information is intended to provide the installer some practical assistance when estimating the amounts of supports and to help in identifying support locations for various field conditions for the installer. It does not, however, cover every situation that may arise when installing the product. It may be possible to install narrow trays with lighter loads and fewer supports. Wider trays that may require heavier loading, trays with long radii, or those with multiple side wires cut may require additional support to avoid unwanted deflection.



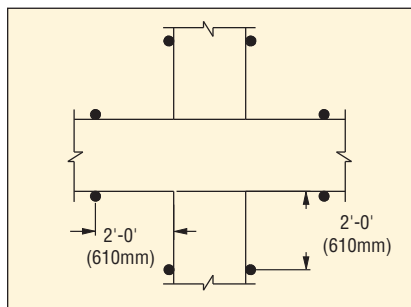
Horizontal Elbow Support
Inside corner supports are not required on 90° short radius bends.



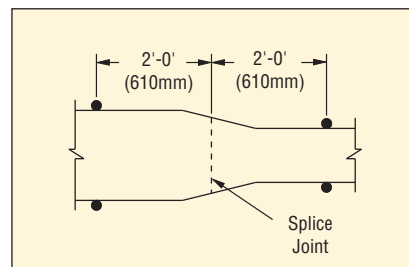
Horizontal Tee Support
On 24" wide items, one support may be placed at the mid-point of the back span as illustrated.



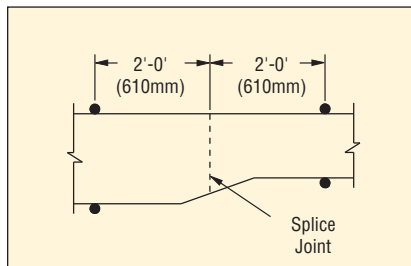
Horizontal Wye Support
On 24" wide items, recommended distance is 1 ft. 6 in. (457mm) from splice connection.



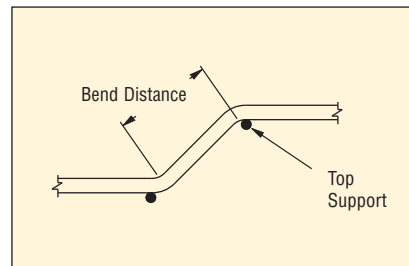
Horizontal Cross Support
On 24" wide items, recommended distance is 1 ft. 6 in. (457mm) from splice connection.



Straight Reducer Support
Place reducer supports within 2 ft. (610mm) of each splice connection.



Left/Right Reducer Support
Place reducer supports within 2 ft. (610mm) of each splice connection.



Vertical Elbows
Support vertical elbows at top support location. Bend distances of 4 ft. (1219mm) and over should be supported at each end as illustrated.

SECTION 16114 - WIRE BASKET CABLE SUPPORT SYSTEM

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Work Included in This Section: Materials, equipment, fabrication, installation and tests in conformity with applicable codes and authorities having jurisdiction for the following:
 - 1. Wire mesh cable tray support systems
- B. Related Work in Other Sections:
 - 1. Conduit and wiring - BASIC MATERIALS AND METHODS Section.

1.02 INCORPORATED DOCUMENTS

- A. Documents affecting work of this Section include, but are not limited to, Conditions of the Contract and Sections in Division 01 of these Specifications.
- B. Professionally recognized published specifications, standards, tests or recommended methods of trade, industry or governmental organizations apply to work in this Section where cited below but not limited to:
 - 1. ANSI/NFPA 70 - National Electrical Code.
 - 2. ASTM B 633 - Specification for Electrodeposited Coatings of Zinc on Iron and Steel.
 - 3. ASTM A 653 - Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot Dip Process.
 - 4. ASTM A 123 - Specification for Zinc (Hot Galvanized) Coatings on Iron and Steel.
 - 5. ASTM A 510 - Specification for General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel.
 - 6. NEMA VE 1-2002 - Metal Cable Tray Systems.
 - 7. NEMA VE 2-2002 - Cable Tray Installation Guidelines.
 - 8. ASTM A 641 - Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire
 - 9. ASTM A 580 - Standard Specification for Stainless Steel Wire
 - 10. ASTM D 769 - Standard Specification for Black Oxide Coatings

1.03 QUALITY ASSURANCE

- A. All equipment and accessories to be the product of a manufacturer regularly engaged in its manufacture.
- B. Supply all equipment and accessories new and free from defects.
- C. Supply all equipment and accessories in compliance with the applicable standards listed in Article 1.02 of this Section and with all applicable national, state and local codes.
- D. All items of a given type shall be the products of the same manufacturer.
- E. NEC Compliance: Comply with NEC, as applicable to construction and installation of cable tray and cable channel systems (Article 318, NEC).
- F. NFPA Compliance Comply with NFPA 70B, "Recommended Practice for Electrical Equipment Maintenance" pertaining to installation of cable tray systems.

1.04 SUBMITTALS

- A. Submittals shall be complete, bound under cover and indicating project title, specification section and/or drawings references. Contractor shall review submittals for conformance with Contract Documents, make necessary revisions and submit to Architect, indicating the following:
 - 1. Manufacturer's name, brand name and catalog sheet(s) reference of all equipment and materials specified under this Section.
 - 2. Submit drawings of wire mesh cable tray and accessories including connector assemblies, clamp assemblies, brackets, splice plates, splice bars, grounding clamps and hold down plates showing accurately scaled components.
 - 3. Submit manufacturer's data on wire mesh cable tray support system including, but not limited to, types, materials, finishes and inside depths.
 - 4. The drawings, which constitute a part of these specifications, indicate the general route of the wire mesh cable tray support systems. Data presented on these drawings is as accurate as preliminary surveys and planning can determine until final equipment selection is made. Accuracy is not guaranteed and field verification of all dimensions, routing, etc., is required.
 - 5. Specifications and drawings are for assistance and guidance, but exact routing, locations, distances and levels will be governed by actual field conditions. Contractor is directed to make field surveys as part of his work prior to submitting system layout drawings.

1.05 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Ship equipment in its original packages to prevent damaging or entrance of foreign matter. All handling performed in accordance with manufacturer's recommendations. Provide protective coverings during construction.
- B. Replace at no expense to Owner, equipment or material damaged during storage or installation as directed by the Architect.
- C. Deliver wire mesh cable tray support systems and components carefully to avoid breakage, bending and scoring finishes. Do not install damaged equipment.
- D. Store wire mesh cable tray and accessories in original cartons and in clean dry space; protect from weather and construction traffic.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Subject to compliance with these specifications, wire mesh cable tray support systems to be installed shall be as manufactured by Cooper B-Line, Inc. [or engineer-approved equal].

2.02 WIRE MESH CABLE TRAY SECTIONS AND COMPONENTS

- A. Provide wire mesh cable tray of types and sizes indicated; with connector assemblies, clamp assemblies, connector plates, splice plates and splice bars. Construct units with rounded edges and smooth surfaces; in compliance with applicable standards; and with the following additional construction features.
- B. Materials and Finishes: Material and finish specifications for [Carbon Steel Wire] [Pre-Galvanized Steel Wire] [Stainless Steel Wire] are as follows:
 - 1. Electro-Plated Zinc Galvanizing: Straight sections shall be made from steel meeting the minimum mechanical properties of ASTM A 510, Grade 1008 and shall be electro-plated zinc in accordance with ASTM B633, Type III, SC-1.
 - 2. Stainless Steel: Straight sections and accessories shall be made from AISI Type [304L] [316L] Stainless Steel meeting the minimum mechanical properties of ASTM A 580.
 - 3. Black Powder Coat: Straight sections shall be powder coated black with an average paint thickness of 1.2mils (30microns) to 3.0mils (75microns).
 - 4. Pre-Galvanized Zinc: Straight section shall be made from pre-galvanized steel meeting the minimum mechanical properties of ASTM A 641.
 - 5. Hot Dipped Galvanizing: Straight sections shall be made from steel meeting the minimum mechanical properties of ASTM A 510, Grade 1008 and shall be hot dipped galvanized after fabrication in accordance with ASTM A 123.
 - 6. Black Oxide: Certain support accessories and miscellaneous hardware shall be manufactured with a black oxide finish in accordance with ASTM D 769.

2.03 TYPE OF WIRE MESH CABLE TRAY SUPPORT SYSTEM

- A. All straight section longitudinal wires shall be constructed with a continuous top wire safety edge. Safety edge must be kinked and T-welded on all tray sizes.
- B. Wire mesh cable tray shall be made of high strength steel wires and formed into a standard 2 inch by 4 inch wire mesh pattern with intersecting wires welded together. All mesh sections must have at least one bottom longitudinal wire along entire length of straight section.
- C. Wire mesh cable tray sizes shall conform to the following nominal criteria:
 - 1. Straight sections shall be furnished in standard 118 inch lengths
 - 2. Wire diameter shall be 0.196" (5mm) minimum on all mesh sections (minimum size of 4.5mm on stainless steel)
 - 3. Wire mesh cable tray shall have a 1 inch usable loading depth by [4][6][8][12] inches wide.
 - 4. Wire mesh cable tray shall have a 2 inch usable loading depth by [2][4][6][8][12][16][18][20][24][30][32] inches wide.
 - 5. Wire mesh cable tray shall have a 4 inch usable loading depth by [4][6][8][12][16][18][20][24][30] inches wide.
 - 6. Wire mesh cable tray shall have a 6 inch usable loading depth by [8][12][16][18][20][24] inches wide.
- D. All fittings shall be field formed, from straight sections, in accordance with manufacturer's instructions.
- E. In order for system to be approved as an Equipment Ground Conductor (EGC), all splicing assemblies shall be UL/CSA approved as an EGC. When using powder coated wire mesh cable tray as an EGC, the paint must be completely removed at all contact points of splice/ground bolt attachment.
- F. Wire mesh cable tray supports shall be center support hangers, trapeze hangers or wall brackets as manufactured by Cooper B-Line, Inc. [or engineer approved equal].
- G. Trapeze hangers or center support hangers shall be supported by 1/4 inch or 3/8 inch diameter rods.
- H. Special accessories shall be furnished as required to protect, support and install a wire mesh cable tray support system.

PART 3 - EXECUTION

3.01 INSTALLATION OF WIRE MESH CABLE TRAY

- A. Install wire mesh cable tray as indicated; in accordance with recognized industry practices (NEMA VE-2 2000), to ensure that the cable tray equipment complies with requirements of NEC, and applicable portions of NFPA 70B and NECA's "Standards of Installation" pertaining to general electrical installation practices.
- B. Coordinate wire mesh cable tray with other electrical work as necessary to properly interface installation of wire mesh cable tray runway with other work.
- C. Provide sufficient space encompassing wire mesh cable tray to permit access for installing and maintaining cables.

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