Steel cable tray
Straight lengths – Tray bottom

01 Ladder
02 Ventilated
03 Solid trough



01

02

03

Ladder, ventilated and solid trough

Ladder
Formed side rails are welded to 1⅝ in. wide rungs to provide maximum rigidity and strength. Rung design includes exclusive Ty-Rap cable tie slots on 1 in. centers.

Ventilated
A fabricated structure consisting of integral or separate longitudinal rails and a bottom having openings sufficient for the passage of air and utilizing 75% or less of the plane area of the surface to support cables.

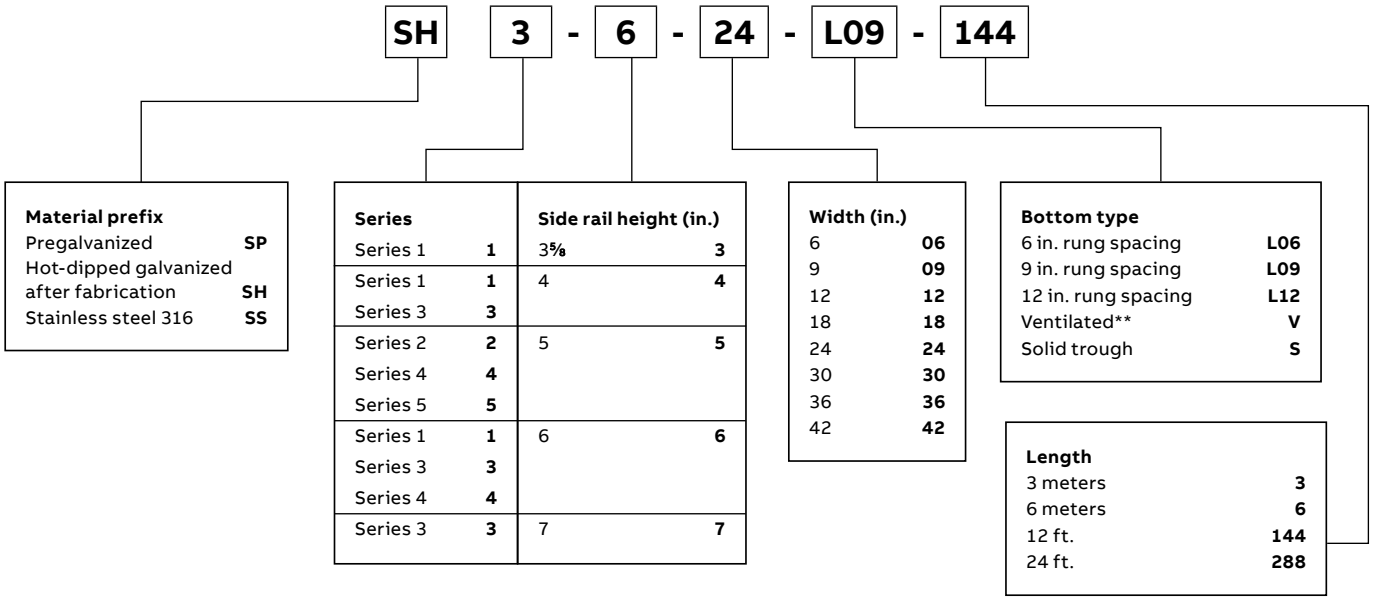
The maximum open spacings between cable support surfaces of transverse elements do not exceed 102 mm (4 in.) in the direction parallel to the tray side rails (rung to rung).

Solid trough
Solid sheet welded to steel side rails below rungs. This design offers added cable protection.

Straight section number selection

How to create part numbers
ABB has created a numbering system based on the order of selection criteria. For example, the first selection issue is the environment to which the cable tray will be subjected. This selection will lead to the best material for your application. For complete details on the cable tray selection process, see page A9 in the technical section.

Methods
1. Select the material best suited to your environment. Refer to technical section page A9.
2. Determine the tray series using the NEMA/CSA load/span designations page A16, and sizing cable tray page A23.
3. Select nominal depth and width of tray based on cable loading. See sizing cable tray page A23.
4. Select the bottom type based on cables and spacing requirements.
5. The last number is the length of the cable tray in meters or inches.



* Series 1-3 and 1-4 are not available in 6 meter or 288 in. lengths.

** For load ratings of CSA Class C/NEMA 8C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages A174 to A207 of this catalogue.

Steel straight lengths

3⅝ in. straight sections/series 1-3 – Ladder, ventilated and solid trough



Technical specifications
All calculations and data are based on 42 in. wide cable trays with rungs spaced 12 inches center to center with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

3⅝ in. straight sections/series 1-3 – Ladder, ventilated and solid trough

		Support span (feet)			
Series		**6**	**8**	**10**	**12**
SP1-3 SH1-3 SS1-3	Load (lb)/ft.)	200	113	72	50
	Deflection (in.)	0.242	0.430	0.672	0.967
	Deflection factor	0.0012	0.0038	0.0093	0.0193

Straight section number selection

SH **1** **3** **24** **L09** - **3**

Material prefix
- Pregalvanized **SP**
- Hot-dipped galvanized after fabrication **SH**
- Stainless steel 316 **SS**

Series
- Series 1 **1**

Side rail height (in.)
- 3⅝ **3**

Width (in.)
- 6 **06**
- 9 **09**
- 12 **12**
- 18 **18**
- 24 **24**
- 30 **30**
- 36 **36**
- 42 **42**

Bottom type
- 6 in. rung spacing **L06**
- 9 in. rung spacing **L09**
- 12 in. rung spacing **L12**
- Ventilated * **V**
- Solid trough **S**

Length
- 3 meters **3**
- 12 ft. **144**

* For load CSA class C3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages A174 to A207 of this catalogue.

For fittings, consult pages A48 to A98.

Dimensions

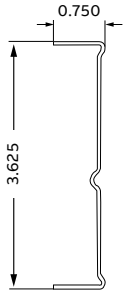


	SP1-3, SH1-3, SS1-3
W (in.)	Wi (in.)
6	4.5
9	7.5
12	10.5
18	16.5
24	22.5
30	28.5
36	34.5
42	40.5

Technical specifications

Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor



Series	Side rail design factors 1 pair	Classifications			
		NEMA	CSA	UL	ABS
SP1-3 SH1-3 SS1-3	Ix = 0.80 in.^{4} Sx = 0.44 in.^{3} Area = 0.49 in.^{2}	12A	C/3m	UL cross sectional area : 0.40 in.^{2}	Stainless steel only

Steel straight lengths

4 in. straight sections/series 1-4, 3-4 – Ladder, ventilated and solid trough



Technical specifications
All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

4 in. straight sections/series 1-4, 3-4 – Ladder, ventilated and solid trough

		Support span (feet)							
Series		**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
SP1-4 SH1-4 SS1-4	Load (lb)/ft.)	420	236	151	105	–	–	–	–
	Deflection (in.)	0.207	0.368	0.574	0.827	–	–	–	–
	Deflection factor	0.0005	0.0016	0.0038	0.0079	–	–	–	–
SP3-4 SH3-4 SS3-4	Load (lb)/ft.)	556	313	200	139	102	78	62	50
	Deflection (in.)	0.243	0.432	0.674	0.971	1.322	1.727	2.185	2.698
	Deflection factor	0.0004	0.0014	0.0034	0.0070	0.0130	0.0221	0.0354	0.0540

Straight section number selection

SH **3** **4** **24** **L09** **144**

Material prefix	
Pregalvanized	**SP**
Hot-dipped galvanized after fabrication	**SH**
Stainless steel 316	**SS**

Series	
Series 1	**1**
Series 3	**3**

Side rail height (in.)	
4	**4**

Width (in.)	
6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

Bottom type	
6 in. rung spacing	**L06**
9 in. rung spacing	**L09**
12 in. rung spacing	**L12**
Ventilated **	**V**
Solid trough	**S**

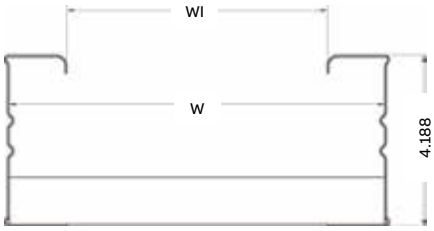
Length*	
3 meters	**3**
6 meters	**6**
12 ft.	**144**
24 ft.	**288**

* Series 1-4 not available in 6 meter or 288 in. lengths.

** For load CSA class C3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages A174 to A207 of this catalogue.

For fittings, consult pages A48 to A98.

Dimensions

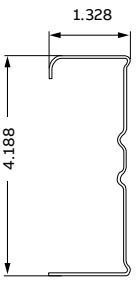


	SP1-4, SH1-4, SS1-4, SP3-4, SH3-4, SS3-4
W (in.)	Wi (in.)
6	3.34
9	6.34
12	9.34
18	15.34
24	21.34
30	27.34
36	33.34
42	39.34

Technical specifications

Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor



Series	Side rail design factors 1 pair	Classifications			
		NEMA	CSA	UL	ABS
SP1-4 SH1-4 SS1-4	Ix = 1.97 in.^{4} Sx = 0.79 in.^{3} Area = 0.68 in.^{2}	12C	D/3m	UL cross sectional area: 0.70 in.^{2}	Stainless steel only
SP3-4 SH3-4 SS3-4	Ix = 2.22 in.^{4} Sx = 1.02 in.^{3} Area = 1.08 in.^{2}	20A	D/6m	UL cross sectional area: 0.70 in.^{2}	Stainless steel only

Steel straight lengths

5 in. straight sections/series 2-5, 4-5, 5-5 – Ladder, ventilated and solid trough



Technical specifications
All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

5 in. straight sections/series 2-5, 4-5, 5-5 – Ladder, ventilated and solid trough

		Support span (feet)							
Series		**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
SP2-5 SH2-5 SS2-5	Load (lb)/ft.)	556	313	200	139	102	78	62	50
	Deflection (in.)	0.187	0.332	0.519	0.747	1.017	1.329	1.682	2.076
	Deflection factor	0.0001	0.0011	0.0026	0.0054	0.0100	0.0170	0.0272	0.0415
SP4-5 SH4-5 SS4-5	Load (lb)/ft.)	833	469	300	208	153	117	93	75
	Deflection (in.)	0.216	0.384	0.600	0.864	1.176	1.536	1.944	2.400
	Deflection factor	0.0003	0.0008	0.0020	0.0041	0.0077	0.0131	0.0211	0.0320
SP5-5 SH5-5 SS5-5	Load (lb)/ft.)	–	625	400	278	204	156	123	100
	Deflection (in.)	–	0.414	0.647	0.932	1.269	1.657	2.097	2.589
	Deflection factor	–	0.0007	0.0016	0.0034	0.0062	0.0106	0.0170	0.0259

Straight section number selection

SH **2** **5** **24** **L09** **144**

Material prefix
Pregalvanized **SP**
Hot-dipped galvanized after fabrication **SH**
Stainless steel 316 **SS**

Series
Series 2 **2**
Series 4 **4**
Series 5 **5**

Side rail height (in.)
5 **5**

Width (in.)
6 **06**
9 **09**
12 **12**
18 **18**
24 **24**
30 **30**
36 **36**
42 **42**

Bottom type
6 in. rung spacing **L06**
9 in. rung spacing **L09**
12 in. rung spacing **L12**
Ventilated **V**
Solid trough **S**

Length
3 meters **3**
6 meters **6**
12 ft. **144**
24 ft. **288**

For fittings, consult pages A48 to A98.

Dimensions

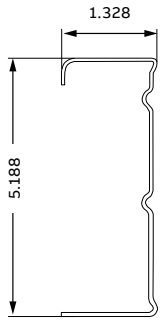


SP2-5, SH2-5, SS2-5, SP4-5, SH4-5, SS4-5, SP5-5, SH5-5, SS5-5	
W (in.)	Wi (in.)
6	3.34
9	6.34
12	9.34
18	15.34
24	21.34
30	27.34
36	33.34
42	39.34

Technical specifications

Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor



Series	Side rail design factors 1 pair	Classifications			
		NEMA	CSA	UL	ABS
SP2-5 SH2-5 SS2-5	Ix = 2.89 in.^{4} Sx = 1.09 in.^{3} Area = 0.78 in.^{2}	20A	D/6m	UL cross sectional area: 0.70 in.^{2}	Stainless steel only
SP4-5 SH4-5 SS4-5	Ix = 3.75 in.^{4} Sx = 1.40 in.^{3} Area = 1.02 in.^{2}	20B	E/6m	UL cross sectional area: 1.00 in.^{2}	Stainless steel only
SP5-5 SH5-5 SS5-5	Ix = 4.64 in.^{4} Sx = 1.73 in.^{3} Area = 1.24 in.^{2}	20C	Exceeds E/6m	UL cross sectional area: 1.00 in.^{2}	Stainless steel only

Steel straight lengths

6 in. straight sections/series 1-6, 3-6, 4-6 – Ladder, ventilated and solid trough



Technical specifications
All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

6 in. straight sections/series 1-6, 3-6, 4-6 – Ladder, ventilated and solid trough

		Support span (feet)							
Series		**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
SP1-6 SH1-6 SS1-6	Load (lb)/ft.)	556	313	200	139	102	78	62	50
	Deflection (in.)	0.122	0.216	0.338	0.486	0.662	0.865	1.095	1.351
	Deflection factor	0.0002	0.0007	0.0017	0.0035	0.0065	0.0111	0.0177	0.0270
SP3-6 SH3-6 SS3-6	Load (lb)/ft.)	833	469	300	208	153	117	93	75
	Deflection (in.)	0.151	0.268	0.419	0.603	0.821	1.072	1.357	1.675
	Deflection factor	0.0002	0.0006	0.0014	0.0029	0.0054	0.0091	0.0147	0.0223
SP4-6 SH4-6 SS4-6	Load (lb)/ft.)	–	728	466	324	238	182	144	117
	Deflection (in.)	–	0.312	0.487	0.702	0.955	1.247	1.579	1.949
	Deflection factor	–	0.0004	0.0010	0.0022	0.0040	0.0069	0.0110	0.0167

Straight section number selection

SH **3** **6** **24** **L12** - **6**

Material prefix
Pregalvanized **SP**
Hot-dipped galvanized after fabrication **SH**
Stainless steel 316 **SS**

Series
Series 1 **1**
Series 3 **3**
Series 4 **4**

Side rail height (in.)
6 **6**

Width (in.)
6 **06**
9 **09**
12 **12**
18 **18**
24 **24**
30 **30**
36 **36**
42 **42**

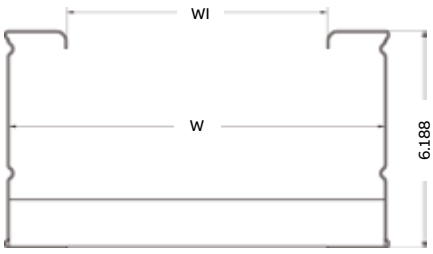
Bottom type
6 in. rung spacing **L06**
9 in. rung spacing **L09**
12 in. rung spacing **L12**
Ventilated** **V**
Solid trough **S**

Length
3 meters **3**
6 meters **6**
12 ft. **144**
24 ft. **288**

** For load ratings of CSA class C/NEMA 8C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages A174 to A207 of this catalogue.

For fittings, consult pages A48 to A98.

Dimensions

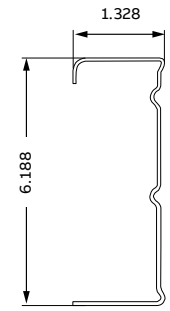


SP1-6, SH1-6, SS1-6, SP3-6, SH3-6, SS3-6, SP4-6, SH4-6, SS4-6	
W (in.)	Wi (in.)
6	3.34
9	6.34
12	9.34
18	15.34
24	21.34
30	27.34
36	33.34
42	39.34

Technical specifications

Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor



Series	Side rail design factors 1 pair	Classifications			
		NEMA	CSA	UL	ABS
SP1-6 SH1-6 SS1-6	Ix = 4.44 in.^{4} Sx = 1.39 in.^{3} Area = 0.87 in.^{2}	20A	D/6m	UL cross sectional area: 0.70 in.^{2}	Stainless steel only
SP3-6 SH3-6 SS3-6	Ix = 5.37 in.^{4} Sx = 1.7 in.^{3} Area = 1.23 in.^{2}	20B	E/6m	UL cross sectional area: 1.00 in.^{2}	Stainless steel only
SP4-6 SH4-6 SS4-6	Ix = 7.17 in.^{4} Sx = 2.25 in.^{3} Area = 1.47 in.^{2}	20C	Exceeds E/6m	UL cross sectional area: 1.00 in.^{2}	Stainless steel only

Steel straight lengths

7 in. straight sections/series 3-7 – Ladder, ventilated and solid trough



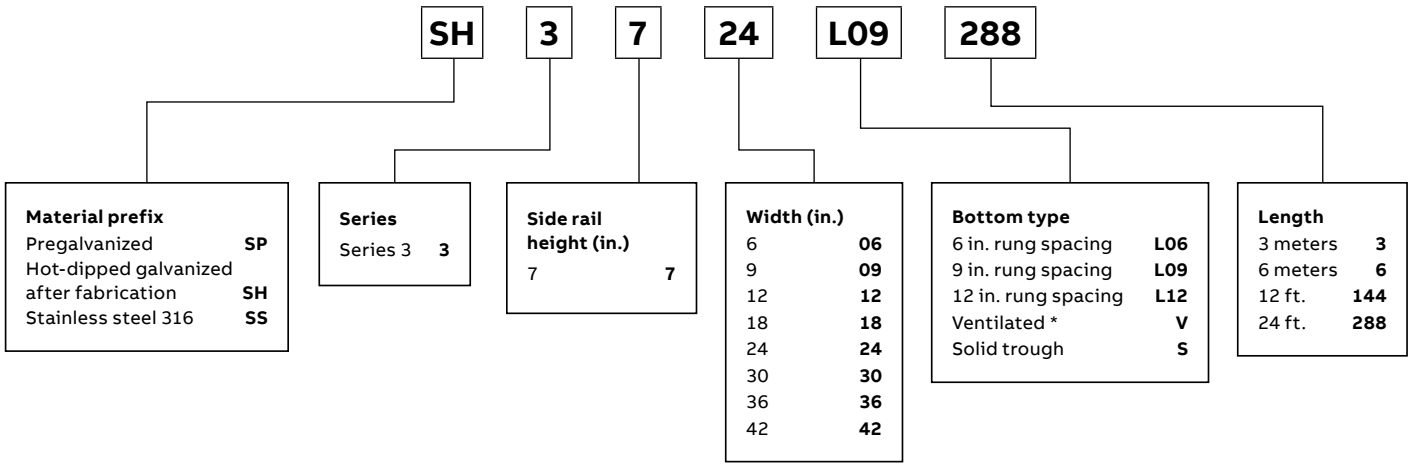
Technical specifications
All calculations and data are based on 42 in. wide cable trays with rungs spaced on 12 in. centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

6 in. straight sections/series 1-6, 3-6, 4-6 – Ladder, ventilated and solid trough

		Support span (feet)							
Series		**6**	**8**	**10**	**12**	**14**	**16**	**18**	**20**
SP3-7 SH3-7 SS3-7	Load (lb)/ft.)	–	750	480	333	245	188	148	120
	Deflection (in.)	–	0.221	0.346	0.498	0.678	0.885	1.120	1.383
	Deflection Factor	–	0.0003	0.0007	0.0015	0.0028	0.0047	0.0076	0.0115

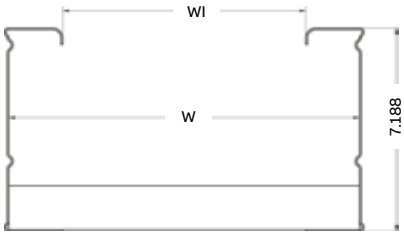
Straight section number selection



* For load ratings of CSA class C/NEMA 12C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages A174 to A207 of this catalogue.

For fittings consult, pages A48 to A98.

Dimensions

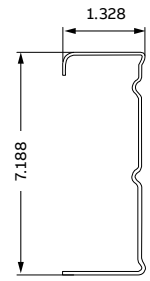


	SP3-7, SH3-7, SS3-7
W (in.)	Wi (in.)
6	3.34
9	6.34
12	9.34
18	15.34
24	21.34
30	27.34
36	33.34
42	39.34

Technical specifications

Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor



		Classifications			
Series	Side rail design factors 1 pair	NEMA	CSA	UL	ABS
SP3-7 SH3-7 SS3-7	Ix = 10.41 in.^{4} Sx = 2.82 in.^{3} Area = 1.54 in.^{2}	Exceeds 20C	Exceeds E/6m	UL cross sectional area: 1.50 in.^{2}	Stainless steel only

Steel fittings

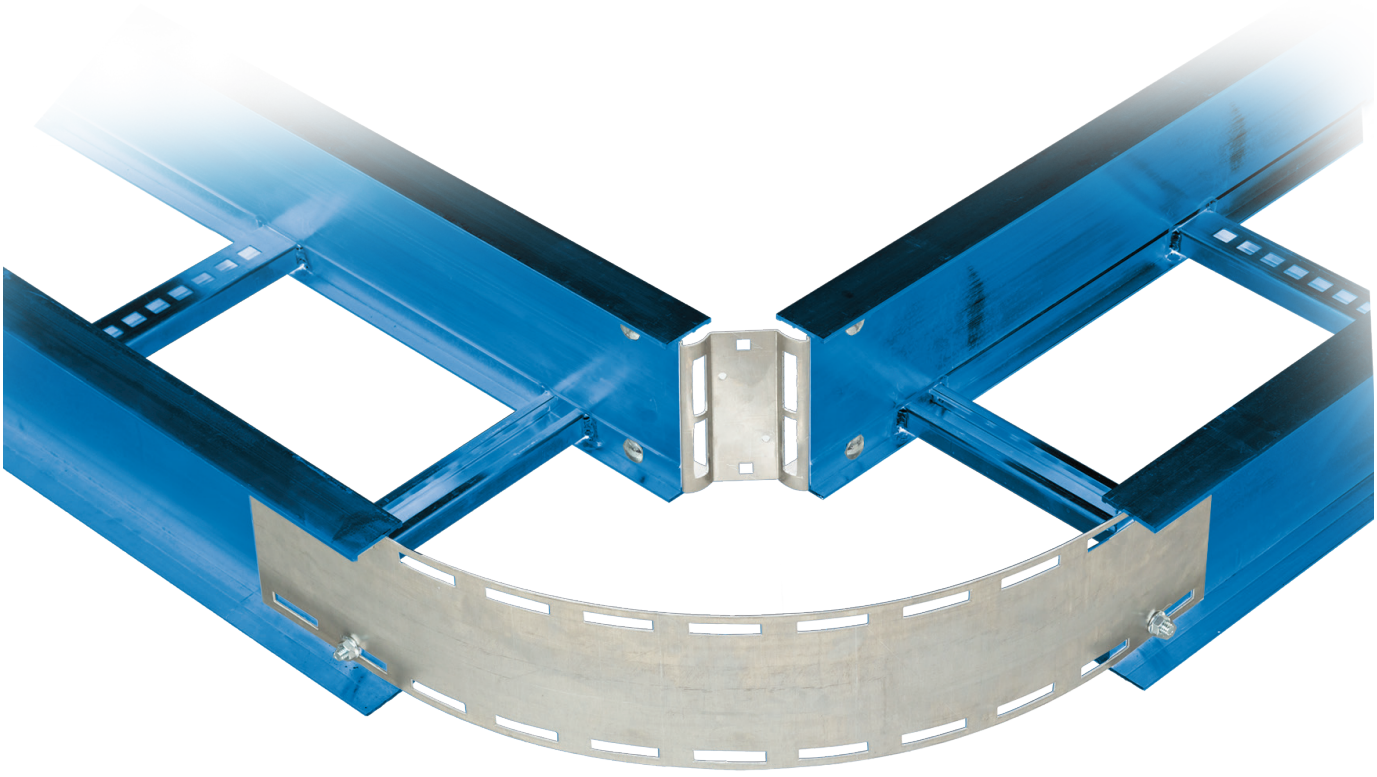
Introducing our new flexible coupler

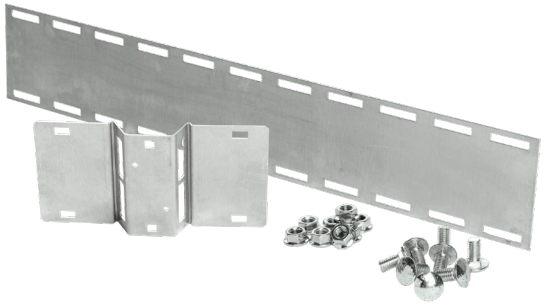
Exterior strap provides accurate radius to meet your cable tray design requirements.
The flexible coupler provides easy installation without measuring and cutting cable tray side rails. Once installed, the coupler allows for electrical continuity, therefore eliminating the requirement for a bonding jumper.

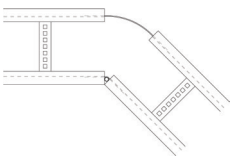
- Formed ribs provide better cable protection
- Fast and easy installation
- Meets the electrical continuity requirement of NEMA VE1 and CSA C22.2 No. 126.1

Features and benefits

- Reduces installation time
- No need for a bonding jumper
- Flexible and economical alternative to regular AU/AH fitting









Steel fittings

Flexible coupler



Steel – Flexible coupler

Cat. no.	Material	Side rail height (in.)	Tray width (in.)
(Prefix)-(*)06HBP	SPW, SHW, SSW	3 to 7	06
(Prefix)-(*)09HBP	SPW, SHW, SSW	3 to 7	09
(Prefix)-(*)12HBP	SPW, SHW, SSW	3 to 7	12
(Prefix)-(*)18HBP	SPW, SHW, SSW	3 to 7	18
(Prefix)-(*)24HBP	SPW, SHW, SSW	3 to 7	24
(Prefix)-(*)30HBP	SPW, SHW, SSW	3 to 7	30
(Prefix)-(*)36HBP	SPW, SHW, SSW	3 to 7	36

*Insert side rail height

Optional rung information (provides additional cable support)

Cat. no.	Material	Tray width (in.)
(Prefix)-R06HBP	SPW, SHW, SSW	06
(Prefix)-R09HBP	SPW, SHW, SSW	09
(Prefix)-R12HBP	SPW, SHW, SSW	12
(Prefix)-R18HBP	SPW, SHW, SSW	18
(Prefix)-R24HBP	SPW, SHW, SSW	24
(Prefix)-R30HBP	SPW, SHW, SSW	30
(Prefix)-R36HBP	SPW, SHW, SSW	36

Load rating with optional rung

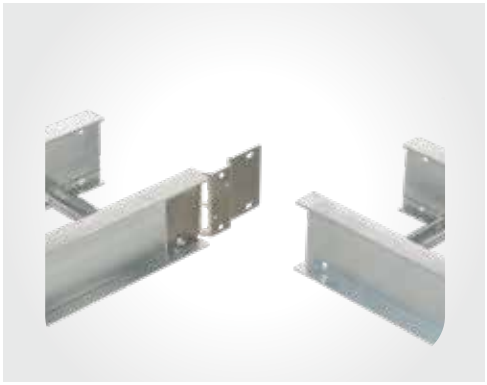
				Side rail height
Tray width	3 in. (76 mm)		4 and 5 in. (102 and 127 mm)	6 and 7 in. (152 and 178 mm)
36 in. (914 mm)	50 lb/ft. (74 kg/m)	Al: 75 lb/ft. (112 kg/m)	Steel: 50 lb/ft. (74 kg/m)	100 lb/ft. (149 kg/m)
30 in. (762 mm)	75 lb/ft. (112 kg/m)		100 lb/ft. (149 kg/m)	100 lb/ft. (149 kg/m)
6 to 24 in. (152 to 610 mm)	100 lb/ft. (149 kg/m)		100 lb/ft. (149 kg/m)	100 lb/ft. (149 kg/m)

01 Fasten flexible coupler to tray.

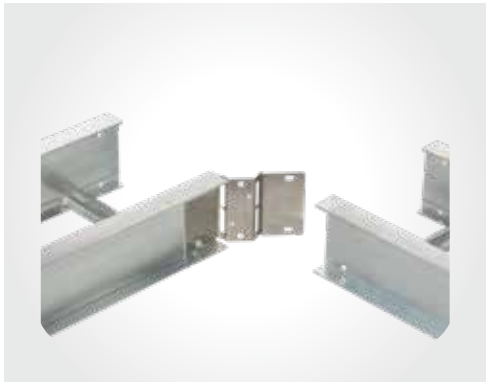
02 Bend.

03 Fasten to the other length of cable tray.

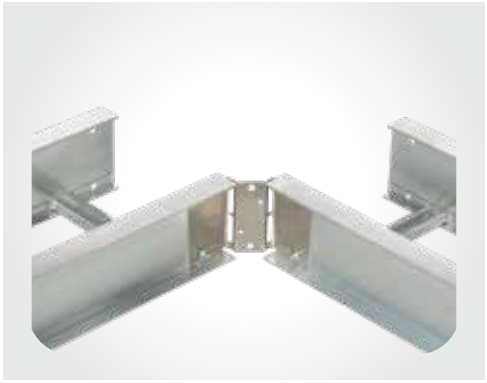
04 Fasten the strap.



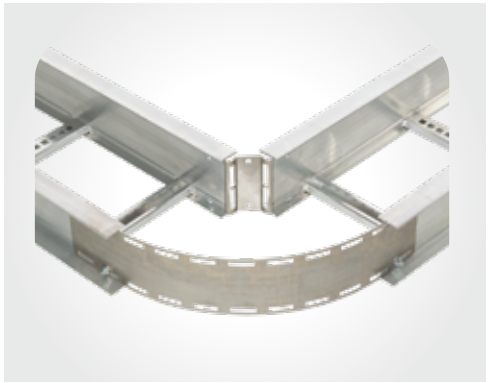
01



02

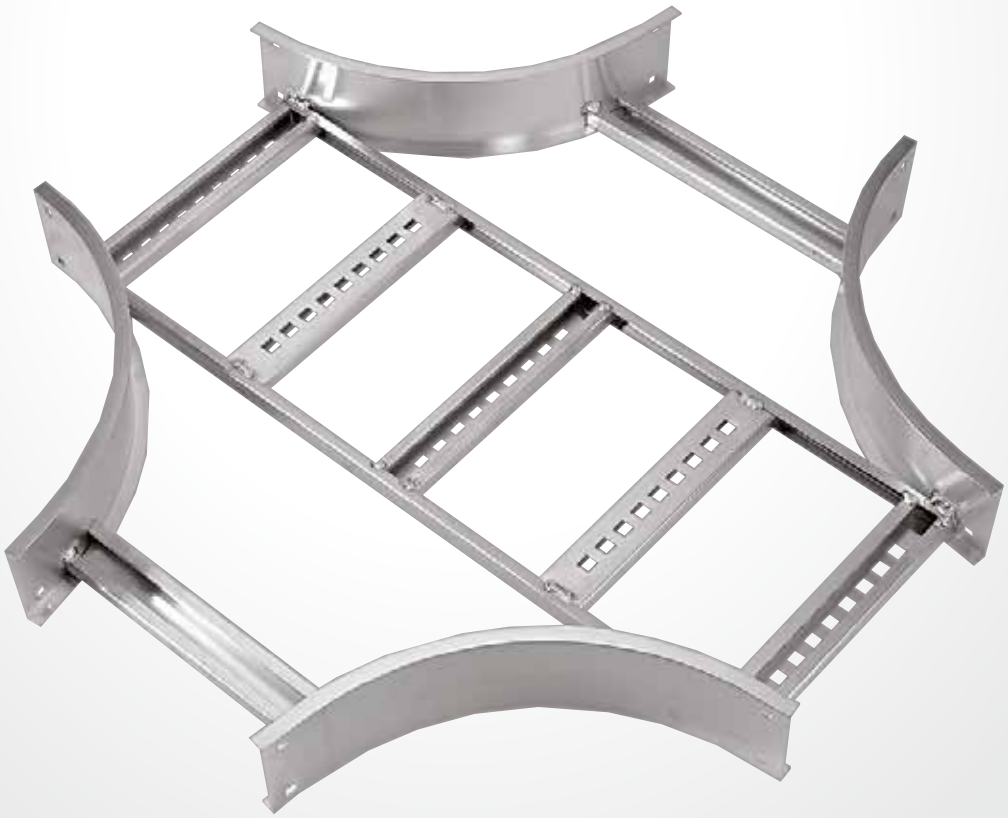


03



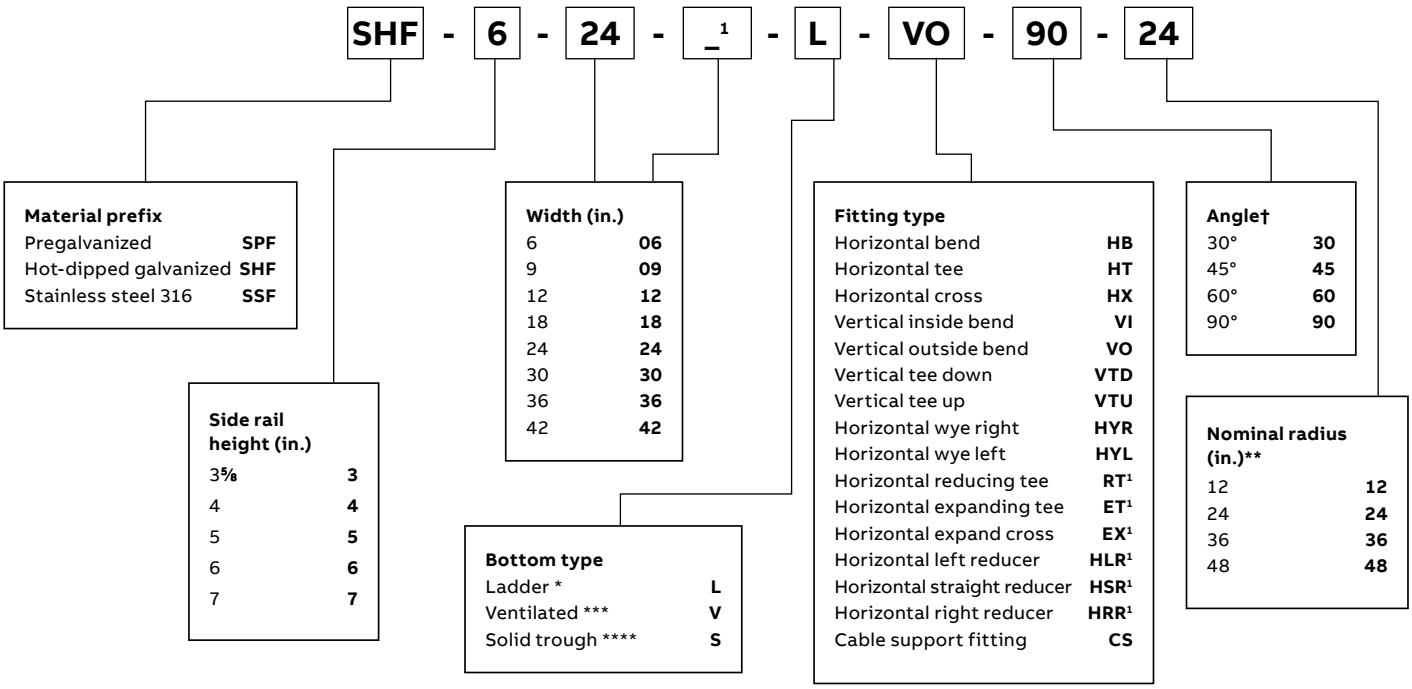
04





Steel fittings

Fittings number selection



[1] A second width is required.

—

† For HB, VI, VO fitting types only.

—

* Manufactured with 9 in. rung spacing measured at the center line of fitting.

—

** Radius is not required for the following fitting types: HYR, HYL, HLR, HRR, HSR.

—

*** Manufactured with 4 in. edge-to-edge rung spacing measured at the center line of fitting.

—

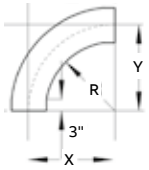
**** Manufactured with flat sheet inserted under rungs with 9 in. rung spacing measured at the center line of fitting.

Steel fittings

90°/60° Horizontal bend fittings

90° Horizontal bend

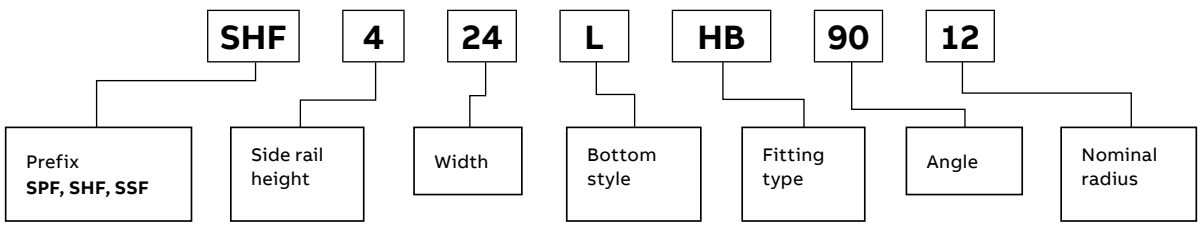




Nominal			Dimensions (in.)	
Radius (in.)	Width (in.)	Cat. no.	X	Y
12	6	Prefix(†)-06-(*)-HB90-12	15	15
12	9	Prefix(†)-09-(*)-HB90-12	16½	16½
12	12	Prefix(†)-12-(*)-HB90-12	18	18
12	18	Prefix(†)-18-(*)-HB90-12	21	21
12	24	Prefix(†)-24-(*)-HB90-12	24	24
12	30	Prefix(†)-30-(*)-HB90-12	27	27
12	36	Prefix(†)-36-(*)-HB90-12	30	30
12	42	Prefix(†)-42-(*)-HB90-12	33	33
24	6	Prefix(†)-06-(*)-HB90-24	27	27
24	9	Prefix(†)-09-(*)-HB90-24	28½	28½
24	12	Prefix(†)-12-(*)-HB90-24	30	30
24	18	Prefix(†)-18-(*)-HB90-24	33	33
24	24	Prefix(†)-24-(*)-HB90-24	36	36
24	30	Prefix(†)-30-(*)-HB90-24	39	39
24	36	Prefix(†)-36-(*)-HB90-24	42	42
24	42	Prefix(†)-42-(*)-HB90-24	45	45
36	6	Prefix(†)-06-(*)-HB90-36	39	39
36	9	Prefix(†)-09-(*)-HB90-36	40½	40½
36	12	Prefix(†)-12-(*)-HB90-36	42	42
36	18	Prefix(†)-18-(*)-HB90-36	45	45
36	24	Prefix(†)-24-(*)-HB90-36	48	48
36	30	Prefix(†)-30-(*)-HB90-36	51	51
36	36	Prefix(†)-36-(*)-HB90-36	54	54
36	42	Prefix(†)-42-(*)-HB90-36	57	57
48	6	Prefix(†)-06-(*)-HB90-48	51	51
48	9	Prefix(†)-09-(*)-HB90-48	52½	52½
48	12	Prefix(†)-12-(*)-HB90-48	54	54
48	18	Prefix(†)-18-(*)-HB90-48	57	57
48	24	Prefix(†)-24-(*)-HB90-48	60	60
48	30	Prefix(†)-30-(*)-HB90-48	63	63
48	36	Prefix(†)-36-(*)-HB90-48	66	66
48	42	Prefix(†)-42-(*)-HB90-48	69	69

(†) Insert side rail height (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.

Part numbering system



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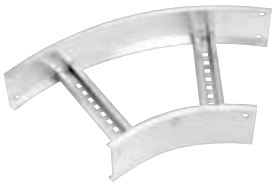
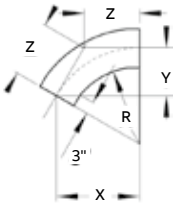
60° Horizontal bend





Nominal			Dimensions (in.)		
Radius (in.)	Width (in.)	Cat. no.	X	Y	Z
12	6	Prefix(†)-06-(*)-HB60-12	14 7/8	8 5/8	9 15/16
12	9	Prefix(†)-09-(*)-HB60-12	16 3/16	9 3/8	10 13/16
12	12	Prefix(†)-12-(*)-HB60-12	17 1/2	10 1/8	11 11/16
12	18	Prefix(†)-18-(*)-HB60-12	20 1/16	11 5/8	13 3/8
12	24	Prefix(†)-24-(*)-HB60-12	22 11/16	13 1/8	15 1/8
12	30	Prefix(†)-30-(*)-HB60-12	25 5/16	14 5/8	16 7/8
12	36	Prefix(†)-36-(*)-HB60-12	27 7/8	16 1/8	18 9/16
12	42	Prefix(†)-42-(*)-HB60-12	30 1/2	17 5/8	20 5/16
24	6	Prefix(†)-06-(*)-HB60-24	25 5/16	14 5/8	16 7/8
24	9	Prefix(†)-09-(*)-HB60-24	26 9/16	15 3/8	17 3/4
24	12	Prefix(†)-12-(*)-HB60-24	27 7/8	16 1/8	18 9/16
24	18	Prefix(†)-18-(*)-HB60-24	30 1/2	17 5/8	20 5/16
24	24	Prefix(†)-24-(*)-HB60-24	33 1/16	19 1/8	22 1/16
24	30	Prefix(†)-30-(*)-HB60-24	35 11/16	20 5/8	23 13/16
24	36	Prefix(†)-36-(*)-HB60-24	38 1/4	22 1/8	25 1/2
24	42	Prefix(†)-42-(*)-HB60-24	40 7/8	23 5/8	27 1/4
36	6	Prefix(†)-06-(*)-HB60-36	35 11/16	20 5/8	23 13/16
36	9	Prefix(†)-09-(*)-HB60-36	37	21 3/8	24 5/8
36	12	Prefix(†)-12-(*)-HB60-36	38 1/4	22 1/8	25 1/2
36	18	Prefix(†)-18-(*)-HB60-36	40 7/8	23 5/8	27 3/8
36	24	Prefix(†)-24-(*)-HB60-36	43 1/2	25 1/8	29
36	30	Prefix(†)-30-(*)-HB60-36	46 1/16	26 5/8	30 11/16
36	36	Prefix(†)-36-(*)-HB60-36	48 11/16	28 1/8	32 7/16
36	42	Prefix(†)-42-(*)-HB60-36	51 1/4	29 5/8	34 3/16
48	6	Prefix(†)-06-(*)-HB60-48	46 1/16	26 5/8	30 11/16
48	9	Prefix(†)-09-(*)-HB60-48	47 3/8	27 3/8	31 9/16
48	12	Prefix(†)-12-(*)-HB60-48	48 11/16	28 1/8	32 7/16
48	18	Prefix(†)-18-(*)-HB60-48	51 1/16	29 5/8	34 3/16
48	24	Prefix(†)-24-(*)-HB60-48	53 7/8	31 1/8	35 15/16
48	30	Prefix(†)-30-(*)-HB60-48	56 7/16	32 5/8	37 5/8
48	36	Prefix(†)-36-(*)-HB60-48	59 1/16	34 1/8	39 3/8
48	42	Prefix(†)-42-(*)-HB60-48	61 11/16	35 5/8	41 1/8

(†) Insert side rail height (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.

Selection guide

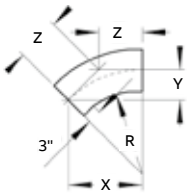
- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 06, 09, 12, 18, 24, 30, 36, 42 in.
- Angle: 90°, 60°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3, 4, 5, 6, 7 in.

Steel fittings

45°/30° Horizontal bend fittings

45° Horizontal bend

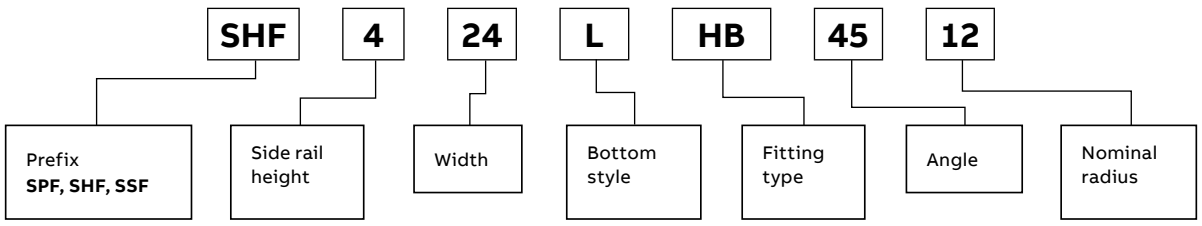




Nominal			Dimensions (in.)		
Radius (in.)	Width (in.)	Cat. no.	X	Y	Z
12	6	Prefix(†)-06-(*)-HB45-12	13⅝	5⅝	8
12	9	Prefix(†)-09-(*)-HB45-12	14 11/16	6 1/16	8 9/16
12	12	Prefix(†)-12-(*)-HB45-12	15¾	6½	9 3/16
12	18	Prefix(†)-18-(*)-HB45-12	17⅞	7⅜	10 7/16
12	24	Prefix(†)-24-(*)-HB45-12	20	8¼	11 11/16
12	30	Prefix(†)-30-(*)-HB45-12	22 1/16	9⅛	12 15/16
12	36	Prefix(†)-36-(*)-HB45-12	24 3/16	10	14 3/16
12	42	Prefix(†)-42-(*)-HB45-12	26 5/16	10 15/16	15 7/16
24	6	Prefix(†)-06-(*)-HB45-24	22 1/16	9⅛	12 15/16
24	9	Prefix(†)-09-(*)-HB45-24	23⅛	9 9/16	13 9/16
24	12	Prefix(†)-12-(*)-HB45-24	24 3/16	10	14 3/16
24	18	Prefix(†)-18-(*)-HB45-24	26 5/16	10 15/16	15 7/16
24	24	Prefix(†)-24-(*)-HB45-24	28 7/16	11 13/16	16 11/16
24	30	Prefix(†)-30-(*)-HB45-24	30 9/16	12 11/16	17 15/16
24	36	Prefix(†)-36-(*)-HB45-24	32 11/16	13 9/16	19⅛
24	42	Prefix(†)-42-(*)-HB45-24	34 13/16	14⅞	20⅜
36	6	Prefix(†)-06-(*)-HB45-36	30 9/16	12 11/16	17 15/16
36	9	Prefix(†)-09-(*)-HB45-36	31⅝	13⅛	18 9/16
36	12	Prefix(†)-12-(*)-HB45-36	32 11/16	13 9/16	19⅛
36	18	Prefix(†)-18-(*)-HB45-36	34 13/16	14 7/16	20⅜
36	24	Prefix(†)-24-(*)-HB45-36	36 15/16	15 5/16	21⅝
36	30	Prefix(†)-30-(*)-HB45-36	39 1/16	16 3/16	22⅞
36	36	Prefix(†)-36-(*)-HB45-36	41 3/16	17 1/16	24⅛
36	42	Prefix(†)-42-(*)-HB45-36	43 5/16	17 15/16	25⅜
48	6	Prefix(†)-06-(*)-HB45-48	39 1/16	16 3/16	22⅞
48	9	Prefix(†)-09-(*)-HB45-48	40⅛	16⅜	23½
48	12	Prefix(†)-12-(*)-HB45-48	41 3/16	17 1/16	24⅛
48	18	Prefix(†)-18-(*)-HB45-48	43 5/16	17 15/16	25⅜
48	24	Prefix(†)-24-(*)-HB45-48	45 7/16	18 13/16	26⅝
48	30	Prefix(†)-30-(*)-HB45-48	47 9/16	19 11/16	27⅞
48	36	Prefix(†)-36-(*)-HB45-48	49 11/16	20 9/16	29⅛
48	42	Prefix(†)-42-(*)-HB45-48	51 13/16	21 7/16	30 5/16

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.

Part numbering system



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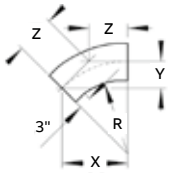
30° Horizontal bend



Nominal			Dimensions (in.)		
Radius (in.)	Width (in.)	Cat. no.	X	Y	Z
12	6	Prefix(†)-06-(*)-HB30-12	11⅝	3⅛	6³⁄₁₆
12	9	Prefix(†)-09-(*)-HB30-12	12⅜	3⁵⁄₁₆	6⅝
12	12	Prefix(†)-12-(*)-HB30-12	13½	3½	7
12	18	Prefix(†)-18-(*)-HB30-12	14⅝	3¹⁵⁄₁₆	7¹³⁄₁₆
12	24	Prefix(†)-24-(*)-HB30-12	16⅛	4⅝	8⅝
12	30	Prefix(†)-30-(*)-HB30-12	17⅝	4¹¹⁄₁₆	9⁷⁄₁₆
12	36	Prefix(†)-36-(*)-HB30-12	19⅛	5⅛	10¼
12	42	Prefix(†)-42-(*)-HB30-12	20⅝	5½	11¹⁄₁₆
24	6	Prefix(†)-06-(*)-HB30-24	17⅝	4¹¹⁄₁₆	9⁷⁄₁₆
24	9	Prefix(†)-09-(*)-HB30-24	18⅜	4¹⁵⁄₁₆	9¹³⁄₁₆
24	12	Prefix(†)-12-(*)-HB30-24	19⅛	5³⁄₁₆	10⁴⁄₁₆
24	18	Prefix(†)-18-(*)-HB30-24	20⅝	5⁹⁄₁₆	11¹⁄₁₆
24	24	Prefix(†)-24-(*)-HB30-24	22⅛	5¹⁵⁄₁₆	11¹³⁄₁₆
24	30	Prefix(†)-30-(*)-HB30-24	23⅝	6⅝₁₆	12¹⁰⁄₁₆
24	36	Prefix(†)-36-(*)-HB30-24	25⅛	6¹²⁄₁₆	13⁷⁄₁₆
24	42	Prefix(†)-42-(*)-HB30-24	26⅝	7⅛	14¼
36	6	Prefix(†)-06-(*)-HB30-36	23⅝	6⅝₁₆	12⅝
36	9	Prefix(†)-09-(*)-HB30-36	24⅜	6½	13¹⁄₁₆
36	12	Prefix(†)-12-(*)-HB30-36	25⅛	6¾	13⁷⁄₁₆
36	18	Prefix(†)-18-(*)-HB30-36	26⅝	7¼	14¼
36	24	Prefix(†)-24-(*)-HB30-36	28⅛	7½	15¹⁄₁₆
36	30	Prefix(†)-30-(*)-HB30-36	29⅝	7¹⁵⁄₁₆	15⅞
36	36	Prefix(†)-36-(*)-HB30-36	31⅛	8⅝₁₆	16¹¹⁄₁₆
36	42	Prefix(†)-42-(*)-HB30-36	32⅝	8¾	17½
48	6	Prefix(†)-06-(*)-HB30-48	29⅝	7¹⁵⁄₁₆	15⅞
48	9	Prefix(†)-09-(*)-HB30-48	30⅜	8⅛	16¼
48	12	Prefix(†)-12-(*)-HB30-48	31⅛	8⅝₁₆	16¹¹⁄₁₆
48	18	Prefix(†)-18-(*)-HB30-48	32⅝	8¾	17½
48	24	Prefix(†)-24-(*)-HB30-48	34⅛	9⅛	18¼
48	30	Prefix(†)-30-(*)-HB30-48	35⅝	9⁹⁄₁₆	19¹⁄₁₆
48	36	Prefix(†)-36-(*)-HB30-48	37⅛	9¹⁵⁄₁₆	19⅞
48	42	Prefix(†)-42-(*)-HB30-48	38⅝	10⁵⁄₁₆	20¹¹⁄₁₆



(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.

Selection guide

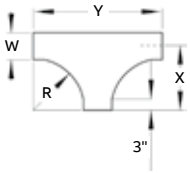
- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 45°, 30°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Steel fittings

Horizontal tee and cross fittings

Horizontal tee

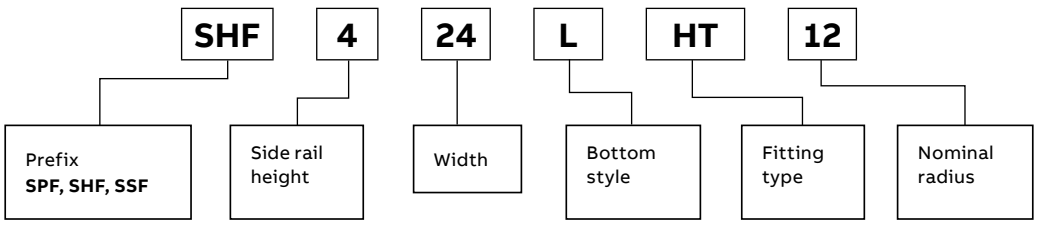




Nominal			Dimensions (in.)	
Radius (in.)	Width (in.)	Cat. no.	X	Y
12	6	Prefix(†)-06-(*)-HT12	15	30
12	9	Prefix(†)-09-(*)-HT12	16½	33
12	12	Prefix(†)-12-(*)-HT12	18	36
12	18	Prefix(†)-18-(*)-HT12	21	42
12	24	Prefix(†)-24-(*)-HT12	24	48
12	30	Prefix(†)-30-(*)-HT12	27	54
12	36	Prefix(†)-36-(*)-HT12	30	60
12	42	Prefix(†)-42-(*)-HT12	33	66
24	6	Prefix(†)-06-(*)-HT24	27	54
24	9	Prefix(†)-09-(*)-HT24	28½	57
24	12	Prefix(†)-12-(*)-HT24	30	60
24	18	Prefix(†)-18-(*)-HT24	33	66
24	24	Prefix(†)-24-(*)-HT24	36	72
24	30	Prefix(†)-30-(*)-HT24	39	78
24	36	Prefix(†)-36-(*)-HT24	42	84
24	42	Prefix(†)-42-(*)-HT24	45	90
36	6	Prefix(†)-06-(*)-HT36	39	78
36	9	Prefix(†)-09-(*)-HT36	40½	81
36	12	Prefix(†)-12-(*)-HT36	42	84
36	18	Prefix(†)-18-(*)-HT36	45	90
36	24	Prefix(†)-24-(*)-HT36	48	96
36	30	Prefix(†)-30-(*)-HT36	51	102
36	36	Prefix(†)-36-(*)-HT36	54	108
36	42	Prefix(†)-42-(*)-HT36	57	114
48	6	Prefix(†)-06-(*)-HT48	51	102
48	9	Prefix(†)-09-(*)-HT48	52½	105
48	12	Prefix(†)-12-(*)-HT48	54	108
48	18	Prefix(†)-18-(*)-HT48	57	114
48	24	Prefix(†)-24-(*)-HT48	60	120
48	30	Prefix(†)-30-(*)-HT48	63	126
48	36	Prefix(†)-36-(*)-HT48	66	132
48	42	Prefix(†)-42-(*)-HT48	69	138

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Tees include 2 pairs / crosses include 3 pairs of splice plates with hardware.
¥ Shipped with SPW-3/8HXHWK hardware kit.

Part numbering system



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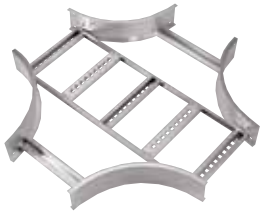
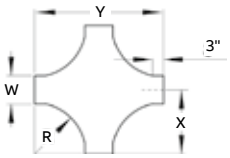
Horizontal cross





Nominal			Dimensions (in.)	
Radius (in.)	Width (in.)	Cat. no.	X	Y
12	6	Prefix(†)-06-(*)-HX12	15	30
12	9	Prefix(†)-09-(*)-HX12	16½	33
12	12	Prefix(†)-12-(*)-HX12	18	36
12	18	Prefix(†)-18-(*)-HX12	21	42
12	24	Prefix(†)-24-(*)-HX12	24	48
12	30	Prefix(†)-30-(*)-HX12	27	54
12	36	Prefix(†)-36-(*)-HX12	30	60
12	42	Prefix(†)-42-(*)-HX12	33	66
24	6	Prefix(†)-06-(*)-HX24	27	54
24	9	Prefix(†)-09-(*)-HX24	28½	57
24	12	Prefix(†)-12-(*)-HX24	30	60
24	18	Prefix(†)-18-(*)-HX24	33	66
24	24	Prefix(†)-24-(*)-HX24	36	72
24	30	Prefix(†)-30-(*)-HX24	39	78
24	36	Prefix(†)-36-(*)-HX24	42	84
24	42	Prefix(†)-42-(*)-HX24	45	90
36	6	Prefix(†)-06-(*)-HX36	39	78
36	9	Prefix(†)-09-(*)-HX36	40½	81
36	12	Prefix(†)-12-(*)-HX36	42	84
36	18	Prefix(†)-18-(*)-HX36	45	90
36	24	Prefix(†)-24-(*)-HX36	48	96
36	30¥	Prefix(†)-30-(*)-HX36	51	102
36	36¥	Prefix(†)-36-(*)-HX36	54	108
36	42¥	Prefix(†)-42-(*)-HX36	57	114
48	6	Prefix(†)-06-(*)-HX48	51	102
48	9	Prefix(†)-09-(*)-HX48	52½	105
48	12	Prefix(†)-12-(*)-HX48	54	108
48	18	Prefix(†)-18-(*)-HX48	57	114
48	24	Prefix(†)-24-(*)-HX48	60	120
48	30	Prefix(†)-30-(*)-HX48	63	126
48	36	Prefix(†)-36-(*)-HX48	66	132
48	42	Prefix(†)-42-(*)-HX48	69	138

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Tees include 2 pairs / crosses include 3 pairs of splice plates with hardware.
¥ Shipped with SPW-3/8HXHWK hardware kit.

Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

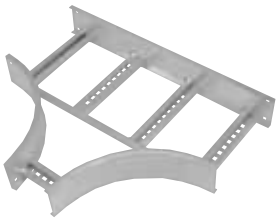
Steel fittings

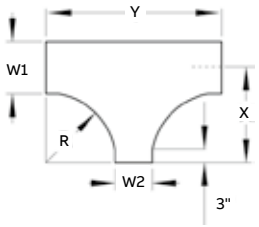
Horizontal reducing tee fittings

Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Tray widths W1: 42, 36, 30, 24, 18, 12, 9 in.
- Tray widths W2: 36, 30, 24, 18, 12, 9, 6 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Horizontal reducing tee

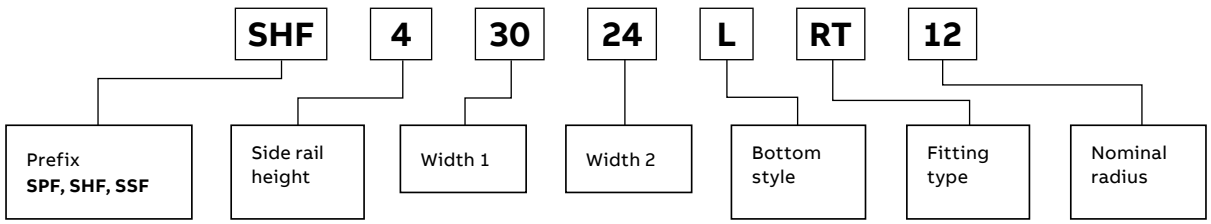




Widths (in.)			Dimensions (in.)							
			(+) 12 in. Nominal radius		(+) 24 in. Nominal radius		(+) 36 in. Nominal radius		(+) 48 in. Nominal radius	
W1	W2	Cat. no.	X	Y	X	Y	X	Y	X	Y
42	36	Prefix(†)-4236-(*)-RT(+)	33	60	45	84	57	108	69	132
42	30	Prefix(†)-4230-(*)-RT(+)	33	54	45	78	57	102	69	126
42	24	Prefix(†)-4224-(*)-RT(+)	33	48	45	72	57	96	69	120
42	18	Prefix(†)-4218-(*)-RT(+)	33	42	45	66	57	90	69	114
42	12	Prefix(†)-4212-(*)-RT(+)	33	36	45	60	57	84	69	108
42	9	Prefix(†)-4209-(*)-RT(+)	33	33	45	57	57	81	69	105
42	6	Prefix(†)-4206-(*)-RT(+)	33	30	45	54	57	78	69	102
36	30	Prefix(†)-3630-(*)-RT(+)	30	54	42	78	54	102	66	126
36	24	Prefix(†)-3624-(*)-RT(+)	30	48	42	72	54	96	66	120
36	18	Prefix(†)-3618-(*)-RT(+)	30	42	42	66	54	90	66	114
36	12	Prefix(†)-3612-(*)-RT(+)	30	36	42	60	54	84	66	108
36	9	Prefix(†)-3609-(*)-RT(+)	30	33	42	57	54	81	66	105
36	6	Prefix(†)-3606-(*)-RT(+)	30	30	42	54	54	78	66	102
30	24	Prefix(†)-3024-(*)-RT(+)	27	48	39	72	51	96	63	120
30	18	Prefix(†)-3018-(*)-RT(+)	27	42	39	66	51	90	63	114
30	12	Prefix(†)-3012-(*)-RT(+)	27	36	39	60	51	84	63	108
30	9	Prefix(†)-3009-(*)-RT(+)	27	33	39	57	51	81	63	105
30	6	Prefix(†)-3006-(*)-RT(+)	27	30	39	54	51	78	63	102
24	18	Prefix(†)-2418-(*)-RT(+)	24	42	36	66	48	90	60	114
24	12	Prefix(†)-2412-(*)-RT(+)	24	36	36	60	48	84	60	108
24	9	Prefix(†)-2409-(*)-RT(+)	24	33	36	57	48	81	60	105
24	6	Prefix(†)-2406-(*)-RT(+)	24	30	36	54	48	78	60	102
18	12	Prefix(†)-1812-(*)-RT(+)	21	36	33	60	45	84	57	108
18	9	Prefix(†)-1809-(*)-RT(+)	21	33	33	57	45	81	57	105
18	6	Prefix(†)-1806-(*)-RT(+)	21	30	33	54	45	78	57	102
12	9	Prefix(†)-1209-(*)-RT(+)	18	33	30	57	42	81	54	105
12	6	Prefix(†)-1206-(*)-RT(+)	18	30	30	54	42	78	54	102
9	6	Prefix(†)-0906-(*)-RT(+)	16½	30	28½	54	40½	78	52½	102

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. (+) Insert radius (12 in.–48 in.). Includes 2 pairs of splice plates with hardware.

Part numbering system



Steel fittings

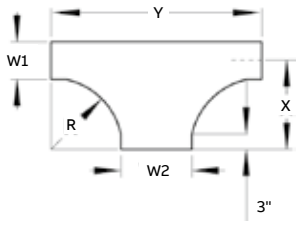
Horizontal expanding tee fittings

Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
  Tray widths W1: 36, 30, 24, 18, 12, 9, 6 in.
- Tray widths W2: 42, 36, 30, 24, 18, 12, 9 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Horizontal expanding tee

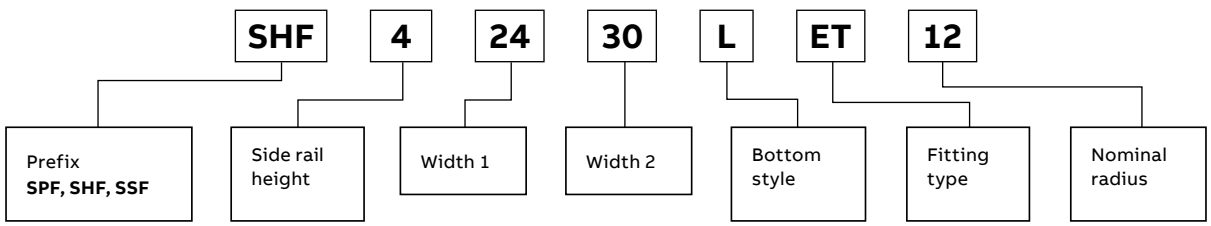




Widths (in.)			Dimensions (in.)							
			(+) 12 in. Nominal radius		(+) 24 in. Nominal radius		(+) 36 in. Nominal radius		(+) 48 in. Nominal radius	
W1	W2	Cat. no.	X	Y	X	Y	X	Y	X	Y
36	42	Prefix(†)-3642-(*)-ET(+)	30	66	42	90	54	114	66	138
30	36	Prefix(†)-3036-(*)-ET(+)	27	60	39	84	51	108	63	132
30	42	Prefix(†)-3042-(*)-ET(+)	27	66	39	90	51	114	63	138
24	30	Prefix(†)-2430-(*)-ET(+)	24	54	36	78	48	102	60	126
24	36	Prefix(†)-2436-(*)-ET(+)	24	60	36	84	48	108	60	132
24	42	Prefix(†)-2442-(*)-ET(+)	24	66	36	90	48	114	60	138
18	24	Prefix(†)-1824-(*)-ET(+)	21	48	33	72	45	96	57	120
18	30	Prefix(†)-1830-(*)-ET(+)	21	54	33	78	45	102	57	126
18	36	Prefix(†)-1836-(*)-ET(+)	21	60	33	84	45	108	57	132
18	42	Prefix(†)-1842-(*)-ET(+)	21	66	33	90	45	114	57	138
12	18	Prefix(†)-1218-(*)-ET(+)	18	42	30	66	42	90	54	114
12	24	Prefix(†)-1224-(*)-ET(+)	18	48	30	72	42	96	54	120
12	30	Prefix(†)-1230-(*)-ET(+)	18	54	30	78	42	102	54	126
12	36	Prefix(†)-1236-(*)-ET(+)	18	60	30	84	42	108	54	132
12	42	Prefix(†)-1242-(*)-ET(+)	18	66	30	90	42	114	54	138
9	12	Prefix(†)-0912-(*)-ET(+)	16½	36	28½	60	40½	84	52½	108
9	18	Prefix(†)-0918-(*)-ET(+)	16½	42	28½	66	40½	90	52½	114
9	24	Prefix(†)-0924-(*)-ET(+)	16½	48	28½	72	40½	96	52½	120
9	30	Prefix(†)-0930-(*)-ET(+)	16½	54	28½	78	40½	102	52½	126
9	36	Prefix(†)-0936-(*)-ET(+)	16½	60	28½	84	40½	108	52½	132
9	42	Prefix(†)-0942-(*)-ET(+)	16½	66	28½	90	40½	114	52½	138
6	9	Prefix(†)-0609-(*)-ET(+)	15	33	27	57	39	81	51	105
6	12	Prefix(†)-0612-(*)-ET(+)	15	36	27	60	39	84	51	108
6	18	Prefix(†)-0618-(*)-ET(+)	15	42	27	66	39	90	51	114
6	24	Prefix(†)-0624-(*)-ET(+)	15	48	27	72	39	96	51	120
6	30	Prefix(†)-0630-(*)-ET(+)	15	54	27	78	39	102	51	126
6	36	Prefix(†)-0636-(*)-ET(+)	15	60	27	84	39	108	51	132
6	42	Prefix(†)-0636-(*)-ET(+)	15	66	27	90	39	114	51	138

(†) Insert side rail height. (*) Insert bottom style (+) Insert radius (12 in.–48 in.) to complete cat. no. Includes 2 pairs of splice plates with hardware.

Part numbering system



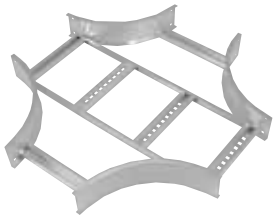
Steel fittings

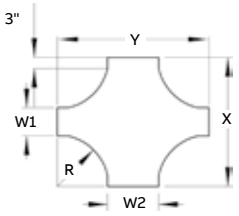
Horizontal expanding cross fittings

Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Tray widths W1: 36, 30, 24, 18, 12, 9, 6 in.
- Tray widths W2: 42, 36, 30, 24, 18, 12, 9 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Horizontal expanding cross

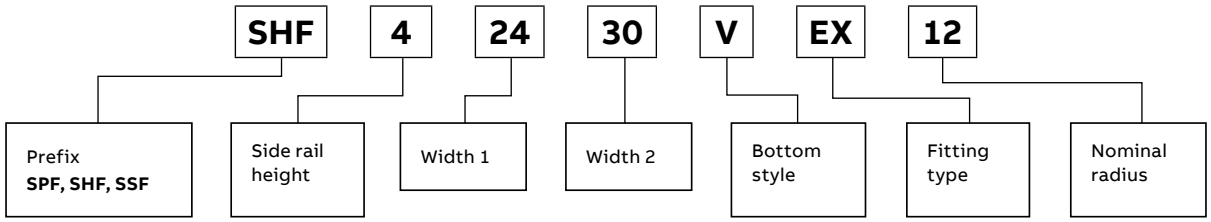




Widths (in.)			Dimensions (in.)							
			(+) 12 in. Nominal radius		(+) 24 in. Nominal radius		(+) 36 in. Nominal radius		(+) 48 in. Nominal radius	
W1	W2	Cat. no.	X	Y	X	Y	X	Y	X	Y
36	42	Prefix(†)-3642-(*)-EX(+)	60	66	84	90	108	114	132	138
30	36	Prefix(†)-3036-(*)-EX(+)	54	60	78	84	102	108	126	132
30	42	Prefix(†)-3042-(*)-EX(+)	54	66	78	90	102	114	126	138
24	30	Prefix(†)-2430-(*)-EX(+)	48	54	72	78	96	102	120	126
24	36	Prefix(†)-2436-(*)-EX(+)	48	60	72	84	96	108	120	132
24	42	Prefix(†)-2442-(*)-EX(+)	48	66	72	90	96	114	120	138
18	24	Prefix(†)-1824-(*)-EX(+)	42	48	66	72	90	96	114	120
18	30	Prefix(†)-1830-(*)-EX(+)	42	54	66	78	90	102	114	126
18	36	Prefix(†)-1836-(*)-EX(+)	42	60	66	84	90	108	114	132
18	42	Prefix(†)-1842-(*)-EX(+)	42	66	66	90	90	114	114	138
12	18	Prefix(†)-1218-(*)-EX(+)	36	42	60	66	84	90	108	114
12	24	Prefix(†)-1224-(*)-EX(+)	36	48	60	72	84	96	108	120
12	30	Prefix(†)-1230-(*)-EX(+)	36	54	60	78	84	102	108	126
12	36	Prefix(†)-1236-(*)-EX(+)	36	60	60	84	84	108	108	132
12	42	Prefix(†)-1242-(*)-EX(+)	36	66	60	90	84	114	108	138
9	12	Prefix(†)-0912-(*)-EX(+)	33	36	57	60	81	84	105	108
9	18	Prefix(†)-0918-(*)-EX(+)	33	42	57	66	81	90	105	114
9	24	Prefix(†)-0924-(*)-EX(+)	33	48	57	72	81	96	105	120
9	30	Prefix(†)-0930-(*)-EX(+)	33	54	57	78	81	102	105	126
9	36	Prefix(†)-0936-(*)-EX(+)	33	60	57	84	81	108	105	132
9	42	Prefix(†)-0942-(*)-EX(+)	33	66	57	90	81	114	105	138
6	9	Prefix(†)-0609-(*)-EX(+)	30	33	54	57	78	81	102	105
6	12	Prefix(†)-0612-(*)-EX(+)	30	36	54	60	78	84	102	108
6	18	Prefix(†)-0618-(*)-EX(+)	30	42	54	66	78	90	102	114
6	24	Prefix(†)-0624-(*)-EX(+)	30	48	54	72	78	96	102	120
6	30	Prefix(†)-0630-(*)-EX(+)	30	54	54	78	78	102	102	126
6	36	Prefix(†)-0636-(*)-EX(+)	30	60	54	84	78	108	102	132
6	42	Prefix(†)-0642-(*)-EX(+)	30	66	54	90	78	114	102	138

(†) Insert side rail height. (*) Insert bottom (+) Insert radius (12 in.–48 in.) style to complete cat. no. Includes 3 pairs of splice plates with hardware.

Part numbering system



Steel fittings

90° Vertical bend fittings

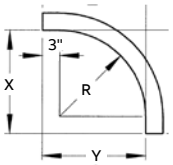
Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 90°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

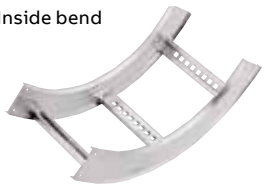
90° Vertical bends

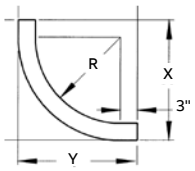
Outside bend





Inside bend

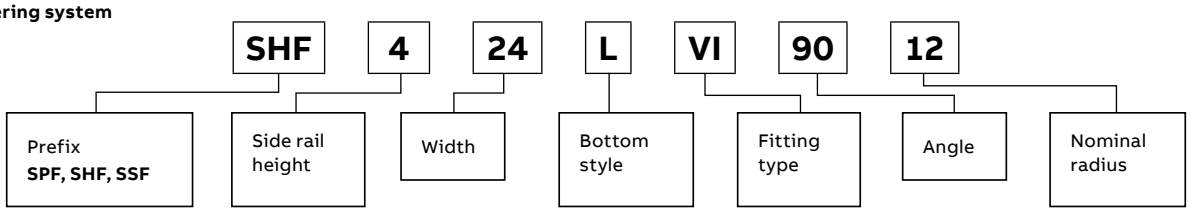




				Dimensions (in.)											
				(+) VO side rail										(+) VI side rail	
	Nominal			-⅝ in. – 7 in.		3½ in.		4 in.		5 in.		6 in.		7 in.	
	Radius (in.)	Width (in.)	Cat. no.	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
	12	6	Prefix(†)-06-(*)-(+)90-12	12	12	15⅝	15⅝	16⅜	16⅜	17⅜16	17⅜16	18⅜16	18⅜16	19⅜16	19⅜16
	12	9	Prefix(†)-09-(*)-(+)90-12	12	12	15⅝	15⅝	16⅜	16⅜	17⅜16	17⅜16	18⅜16	18⅜16	19⅜16	19⅜16
	12	12	Prefix(†)-12-(*)-(+)90-12	12	12	15⅝	15⅝	16⅜	16⅜	17⅜16	17⅜16	18⅜16	18⅜16	19⅜16	19⅜16
	12	18	Prefix(†)-18-(*)-(+)90-12	12	12	15⅝	15⅝	16⅜	16⅜	17⅜16	17⅜16	18⅜16	18⅜16	19⅜16	19⅜16
	12	24	Prefix(†)-24-(*)-(+)90-12	12	12	15⅝	15⅝	16⅜	16⅜	17⅜16	17⅜16	18⅜16	18⅜16	19⅜16	19⅜16
	12	30	Prefix(†)-30-(*)-(+)90-12	12	12	15⅝	15⅝	16⅜	16⅜	17⅜16	17⅜16	18⅜16	18⅜16	19⅜16	19⅜16
	12	36	Prefix(†)-36-(*)-(+)90-12	12	12	15⅝	15⅝	16⅜	16⅜	17⅜16	17⅜16	18⅜16	18⅜16	19⅜16	19⅜16
	12	42	Prefix(†)-42-(*)-(+)90-12	12	12	15⅝	15⅝	16⅜	16⅜	17⅜16	17⅜16	18⅜16	18⅜16	19⅜16	19⅜16
	24	6	Prefix(†)-06-(*)-(+)90-24	24	24	27⅝	27⅝	28⅜16	28⅜16	29⅜16	29⅜16	30⅜16	30⅜16	31⅜16	31⅜16
	24	9	Prefix(†)-09-(*)-(+)90-24	24	24	27⅝	27⅝	28⅜16	28⅜16	29⅜16	29⅜16	30⅜16	30⅜16	31⅜16	31⅜16
	24	12	Prefix(†)-12-(*)-(+)90-24	24	24	27⅝	27⅝	28⅜16	28⅜16	29⅜16	29⅜16	30⅜16	30⅜16	31⅜16	31⅜16
	24	18	Prefix(†)-18-(*)-(+)90-24	24	24	27⅝	27⅝	28⅜16	28⅜16	29⅜16	29⅜16	30⅜16	30⅜16	31⅜16	31⅜16
	24	24	Prefix(†)-24-(*)-(+)90-24	24	24	27⅝	27⅝	28⅜16	28⅜16	29⅜16	29⅜16	30⅜16	30⅜16	31⅜16	31⅜16
	24	30	Prefix(†)-30-(*)-(+)90-24	24	24	27⅝	27⅝	28⅜16	28⅜16	29⅜16	29⅜16	30⅜16	30⅜16	31⅜16	31⅜16
	24	36	Prefix(†)-36-(*)-(+)90-24	24	24	27⅝	27⅝	28⅜16	28⅜16	29⅜16	29⅜16	30⅜16	30⅜16	31⅜16	31⅜16
	24	42	Prefix(†)-42-(*)-(+)90-24	24	24	27⅝	27⅝	28⅜16	28⅜16	29⅜16	29⅜16	30⅜16	30⅜16	31⅜16	31⅜16
	36	6	Prefix(†)-06-(*)-(+)90-36	36	36	39⅝	39⅝	40⅜16	40⅜16	41⅜16	41⅜16	42⅜16	42⅜16	43⅜16	43⅜16
	36	9	Prefix(†)-09-(*)-(+)90-36	36	36	39⅝	39⅝	40⅜16	40⅜16	41⅜16	41⅜16	42⅜16	42⅜16	43⅜16	43⅜16
	36	12	Prefix(†)-12-(*)-(+)90-36	36	36	39⅝	39⅝	40⅜16	40⅜16	41⅜16	41⅜16	42⅜16	42⅜16	43⅜16	43⅜16
	36	18	Prefix(†)-18-(*)-(+)90-36	36	36	39⅝	39⅝	40⅜16	40⅜16	41⅜16	41⅜16	42⅜16	42⅜16	43⅜16	43⅜16
	36	24	Prefix(†)-24-(*)-(+)90-36	36	36	39⅝	39⅝	40⅜16	40⅜16	41⅜16	41⅜16	42⅜16	42⅜16	43⅜16	43⅜16
	36	30	Prefix(†)-30-(*)-(+)90-36	36	36	39⅝	39⅝	40⅜16	40⅜16	41⅜16	41⅜16	42⅜16	42⅜16	43⅜16	43⅜16
	36	36	Prefix(†)-36-(*)-(+)90-36	36	36	39⅝	39⅝	40⅜16	40⅜16	41⅜16	41⅜16	42⅜16	42⅜16	43⅜16	43⅜16
	36	42	Prefix(†)-42-(*)-(+)90-36	36	36	39⅝	39⅝	40⅜16	40⅜16	41⅜16	41⅜16	42⅜16	42⅜16	43⅜16	43⅜16
	48	6	Prefix(†)-06-(*)-(+)90-48	48	48	51⅝	51⅝	52⅜16	52⅜16	53⅜16	53⅜16	54⅜16	54⅜16	55⅜16	55⅜16
	48	9	Prefix(†)-09-(*)-(+)90-48	48	48	51⅝	51⅝	52⅜16	52⅜16	53⅜16	53⅜16	54⅜16	54⅜16	55⅜16	55⅜16
	48	12	Prefix(†)-12-(*)-(+)90-48	48	48	51⅝	51⅝	52⅜16	52⅜16	53⅜16	53⅜16	54⅜16	54⅜16	55⅜16	55⅜16
	48	18	Prefix(†)-18-(*)-(+)90-48	48	48	51⅝	51⅝	52⅜16	52⅜16	53⅜16	53⅜16	54⅜16	54⅜16	55⅜16	55⅜16
	48	24	Prefix(†)-24-(*)-(+)90-48	48	48	51⅝	51⅝	52⅜16	52⅜16	53⅜16	53⅜16	54⅜16	54⅜16	55⅜16	55⅜16
	48	30	Prefix(†)-30-(*)-(+)90-48	48	48	51⅝	51⅝	52⅜16	52⅜16	53⅜16	53⅜16	54⅜16	54⅜16	55⅜16	55⅜16
	48	36	Prefix(†)-36-(*)-(+)90-48	48	48	51⅝	51⅝	52⅜16	52⅜16	53⅜16	53⅜16	54⅜16	54⅜16	55⅜16	55⅜16
	48	42	Prefix(†)-42-(*)-(+)90-48	48	48	51⅝	51⅝	52⅜16	52⅜16	53⅜16	53⅜16	54⅜16	54⅜16	55⅜16	55⅜16

(†) Insert side rail height. (*) Insert bottom (+) Insert "VO" for vertical outside or "VI" for vertical inside style to complete cat. no. Includes 1 pair of splice plates with hardware.

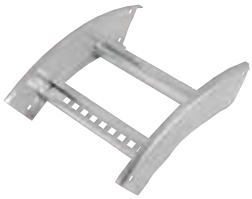
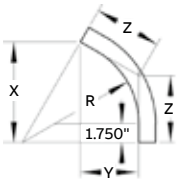
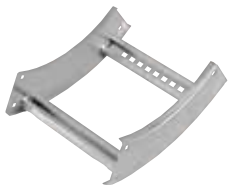
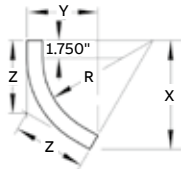
Part numbering system



Steel fittings

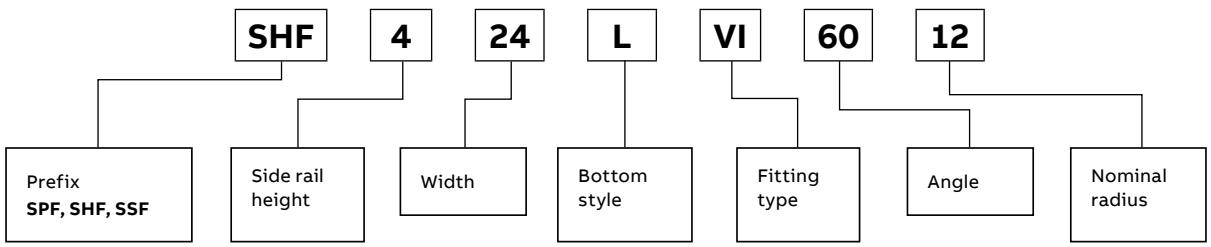
60° Vertical bend fittings

60° Vertical bends

	Nominal			Dimensions (in.)								
				(+) VO side rail						(+) VI side rail		
				3⅝ in. – 7 in.			3½ in.			4 in.		
	Radius (in.)	Width (in.)	Cat. no.	X	Y	Z	X	Y	Z	X	Y	Z
Outside bend	12	6	Prefix(†)-06-(*)-(+)60-12	10⅜	6	6 15/16	13½	9⅝	9	14	10 3/16	9⅜
	12	9	Prefix(†)-09-(*)-(+)60-12	10⅜	6	6 15/16	13½	9⅝	9	14	10 3/16	9⅜
	12	12	Prefix(†)-12-(*)-(+)60-12	10⅜	6	6 15/16	13½	9⅝	9	14	10 3/16	9⅜
	12	18	Prefix(†)-18-(*)-(+)60-12	10⅜	6	6 15/16	13½	9⅝	9	14	10 3/16	9⅜
	12	24	Prefix(†)-24-(*)-(+)60-12	10⅜	6	6 15/16	13½	9⅝	9	14	10 3/16	9⅜
	12	30	Prefix(†)-30-(*)-(+)60-12	10⅜	6	6 15/16	13½	9⅝	9	14	10 3/16	9⅜
	12	36	Prefix(†)-36-(*)-(+)60-12	10⅜	6	6 15/16	13½	9⅝	9	14	10 3/16	9⅜
	12	42	Prefix(†)-42-(*)-(+)60-12	10⅜	6	6 15/16	13½	9⅝	9	14	10 3/16	9⅜
	24	6	Prefix(†)-06-(*)-(+)60-24	20 13/16	12	13⅞	23 15/16	15⅝	15 15/16	24 7/16	16 3/16	16¼
	24	9	Prefix(†)-09-(*)-(+)60-24	20 13/16	12	13⅞	23 15/16	15⅝	15 15/16	24 7/16	16 3/16	16¼
	24	12	Prefix(†)-12-(*)-(+)60-24	20 13/16	12	13⅞	23 15/16	15⅝	15 15/16	24 7/16	16 3/16	16¼
	24	18	Prefix(†)-18-(*)-(+)60-24	20 13/16	12	13⅞	23 15/16	15⅝	15 15/16	24 7/16	16 3/16	16¼
	24	24	Prefix(†)-24-(*)-(+)60-24	20 13/16	12	13⅞	23 15/16	15⅝	15 15/16	24 7/16	16 3/16	16¼
	24	30	Prefix(†)-30-(*)-(+)60-24	20 13/16	12	13⅞	23 15/16	15⅝	15 15/16	24 7/16	16 3/16	16¼
	24	36	Prefix(†)-36-(*)-(+)60-24	20 13/16	12	13⅞	23 15/16	15⅝	15 15/16	24 7/16	16 3/16	16¼
	24	42	Prefix(†)-42-(*)-(+)60-24	20 13/16	12	13⅞	23 15/16	15⅝	15 15/16	24 7/16	16 3/16	16¼
Inside bend	36	6	Prefix(†)-06-(*)-(+)60-36	31 3/16	18	20 13/16	34 5/16	21⅝	22⅞	34 13/16	22¾	23 3/16
	36	9	Prefix(†)-09-(*)-(+)60-36	31 3/16	18	20 13/16	34 5/16	21⅝	22⅞	34 13/16	22¾	23 3/16
	36	12	Prefix(†)-12-(*)-(+)60-36	31 3/16	18	20 13/16	34 5/16	21⅝	22⅞	34 13/16	22¾	23 3/16
	36	18	Prefix(†)-18-(*)-(+)60-36	31 3/16	18	20 13/16	34 5/16	21⅝	22⅞	34 13/16	22¾	23 3/16
	36	24	Prefix(†)-24-(*)-(+)60-36	31 3/16	18	20 13/16	34 5/16	21⅝	22⅞	34 13/16	22¾	23 3/16
	36	30	Prefix(†)-30-(*)-(+)60-36	31 3/16	18	20 13/16	34 5/16	21⅝	22⅞	34 13/16	22¾	23 3/16
	36	36	Prefix(†)-36-(*)-(+)60-36	31 3/16	18	20 13/16	34 5/16	21⅝	22⅞	34 13/16	22¾	23 3/16
	36	42	Prefix(†)-42-(*)-(+)60-36	31 3/16	18	20 13/16	34 5/16	21⅝	22⅞	34 13/16	22¾	23 3/16
	48	6	Prefix(†)-06-(*)-(+)60-48	41 9/16	24	27 11/16	44 11/16	27⅝	29 13/16	45 3/16	28 3/16	30⅛
	48	9	Prefix(†)-09-(*)-(+)60-48	41 9/16	24	27 11/16	44 11/16	27⅝	29 13/16	45 3/16	28 3/16	30⅛
	48	12	Prefix(†)-12-(*)-(+)60-48	41 9/16	24	27 11/16	44 11/16	27⅝	29 13/16	45 3/16	28 3/16	30⅛
	48	18	Prefix(†)-18-(*)-(+)60-48	41 9/16	24	27 11/16	44 11/16	27⅝	29 13/16	45 3/16	28 3/16	30⅛
	48	24	Prefix(†)-24-(*)-(+)60-48	41 9/16	24	27 11/16	44 11/16	27⅝	29 13/16	45 3/16	28 3/16	30⅛
	48	30	Prefix(†)-30-(*)-(+)60-48	41 9/16	24	27 11/16	44 11/16	27⅝	29 13/16	45 3/16	28 3/16	30⅛
	48	36	Prefix(†)-36-(*)-(+)60-48	41 9/16	24	27 11/16	44 11/16	27⅝	29 13/16	45 3/16	28 3/16	30⅛
	48	42	Prefix(†)-42-(*)-(+)60-48	41 9/16	24	27 11/16	44 11/16	27⅝	29 13/16	45 3/16	28 3/16	30⅛

(†) Insert side rail height. (*) Insert bottom (+) Insert "VO" for vertical outside or "VI" for vertical inside style to complete cat. no. Includes 1 pair of splice plates with hardware.

Part numbering system



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60° Vertical bends (continued)

Nominal			Dimensions (in.) (+) VI side rail								
			5 in.			6 in.			7 in.		
Radius (in.)	Width (in.)	Cat. no.	X	Y	Z	X	Y	Z	X	Y	Z
12	6	Prefix(†)-06-(*)-(+)60-12	14 7/8	11 3/16	9 15/16	15 3/4	12 3/16	10 1/2	16 5/8	13 3/16	11 1/16
12	9	Prefix(†)-09-(*)-(+)60-12	14 7/8	11 3/16	9 15/16	15 3/4	12 3/16	10 1/2	16 5/8	13 3/16	11 1/16
12	12	Prefix(†)-12-(*)-(+)60-12	14 7/8	11 3/16	9 15/16	15 3/4	12 3/16	10 1/2	16 5/8	13 3/16	11 1/16
12	18	Prefix(†)-18-(*)-(+)60-12	14 7/8	11 3/16	9 15/16	15 3/4	12 3/16	10 1/2	16 5/8	13 3/16	11 1/16
12	24	Prefix(†)-24-(*)-(+)60-12	14 7/8	11 3/16	9 15/16	15 3/4	12 3/16	10 1/2	16 5/8	13 3/16	11 1/16
12	30	Prefix(†)-30-(*)-(+)60-12	14 7/8	11 3/16	9 15/16	15 3/4	12 3/16	10 1/2	16 5/8	13 3/16	11 1/16
12	36	Prefix(†)-36-(*)-(+)60-12	14 7/8	11 3/16	9 15/16	15 3/4	12 3/16	10 1/2	16 5/8	13 3/16	11 1/16
12	42	Prefix(†)-42-(*)-(+)60-12	14 7/8	11 3/16	9 15/16	15 3/4	12 3/16	10 1/2	16 5/8	13 3/16	11 1/16
24	6	Prefix(†)-06-(*)-(+)60-24	25 1/4	17 3/16	16 7/8	26 1/8	18 3/16	17 7/16	27	19 3/16	18
24	9	Prefix(†)-09-(*)-(+)60-24	25 1/4	17 3/16	16 7/8	26 1/8	18 3/16	17 7/16	27	19 3/16	18
24	12	Prefix(†)-12-(*)-(+)60-24	25 1/4	17 3/16	16 7/8	26 1/8	18 3/16	17 7/16	27	19 3/16	18
24	18	Prefix(†)-18-(*)-(+)60-24	25 1/4	17 3/16	16 7/8	26 1/8	18 3/16	17 7/16	27	19 3/16	18
24	24	Prefix(†)-24-(*)-(+)60-24	25 1/4	17 3/16	16 7/8	26 1/8	18 3/16	17 7/16	27	19 3/16	18
24	30	Prefix(†)-30-(*)-(+)60-24	25 1/4	17 3/16	16 7/8	26 1/8	18 3/16	17 7/16	27	19 3/16	18
24	36	Prefix(†)-36-(*)-(+)60-24	25 1/4	17 3/16	16 7/8	26 1/8	18 3/16	17 7/16	27	19 3/16	18
24	42	Prefix(†)-42-(*)-(+)60-24	25 1/4	17 3/16	16 7/8	26 1/8	18 3/16	17 7/16	27	19 3/16	18
36	6	Prefix(†)-06-(*)-(+)60-36	35 11/16	23 3/16	23 3/4	36 1/2	24 3/16	24 3/8	37 7/16	25 3/16	24 15/16
36	9	Prefix(†)-09-(*)-(+)60-36	35 11/16	23 3/16	23 3/4	36 1/2	24 3/16	24 3/8	37 7/16	25 3/16	24 15/16
36	12	Prefix(†)-12-(*)-(+)60-36	35 11/16	23 3/16	23 3/4	36 1/2	24 3/16	24 3/8	37 7/16	25 3/16	24 15/16
36	18	Prefix(†)-18-(*)-(+)60-36	35 11/16	23 3/16	23 3/4	36 1/2	24 3/16	24 3/8	37 7/16	25 3/16	24 15/16
36	24	Prefix(†)-24-(*)-(+)60-36	35 11/16	23 3/16	23 3/4	36 1/2	24 3/16	24 3/8	37 7/16	25 3/16	24 15/16
36	30	Prefix(†)-30-(*)-(+)60-36	35 11/16	23 3/16	23 3/4	36 1/2	24 3/16	24 3/8	37 7/16	25 3/16	24 15/16
36	36	Prefix(†)-36-(*)-(+)60-36	35 11/16	23 3/16	23 3/4	36 1/2	24 3/16	24 3/8	37 7/16	25 3/16	24 15/16
36	42	Prefix(†)-42-(*)-(+)60-36	35 11/16	23 3/16	23 3/4	36 1/2	24 3/16	24 3/8	37 7/16	25 3/16	24 15/16
48	6	Prefix(†)-06-(*)-(+)60-48	46 1/16	29 3/16	30 11/16	46 15/16	30 3/16	31 1/8	47 13/16	31 3/16	31 7/8
48	9	Prefix(†)-09-(*)-(+)60-48	46 1/16	29 3/16	30 11/16	46 15/16	30 3/16	31 1/8	47 13/16	31 3/16	31 7/8
48	12	Prefix(†)-12-(*)-(+)60-48	46 1/16	29 3/16	30 11/16	46 15/16	30 3/16	31 1/8	47 13/16	31 3/16	31 7/8
48	18	Prefix(†)-18-(*)-(+)60-48	46 1/16	29 3/16	30 11/16	46 15/16	30 3/16	31 1/8	47 13/16	31 3/16	31 7/8
48	24	Prefix(†)-24-(*)-(+)60-48	46 1/16	29 3/16	30 11/16	46 15/16	30 3/16	31 1/8	47 13/16	31 3/16	31 7/8
48	30	Prefix(†)-30-(*)-(+)60-48	46 1/16	29 3/16	30 11/16	46 15/16	30 3/16	31 1/8	47 13/16	31 3/16	31 7/8
48	36	Prefix(†)-36-(*)-(+)60-48	46 1/16	29 3/16	30 11/16	46 15/16	30 3/16	31 1/8	47 13/16	31 3/16	31 7/8
48	42	Prefix(†)-42-(*)-(+)60-48	46 1/16	29 3/16	30 11/16	46 15/16	30 3/16	31 1/8	47 13/16	31 3/16	31 7/8

(†) Insert side rail height. (*) Insert bottom (+) Insert "VO" for vertical outside or "VI" for vertical inside style to complete cat. no. Includes 1 pair of splice plates with hardware.

Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 60°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Steel fittings

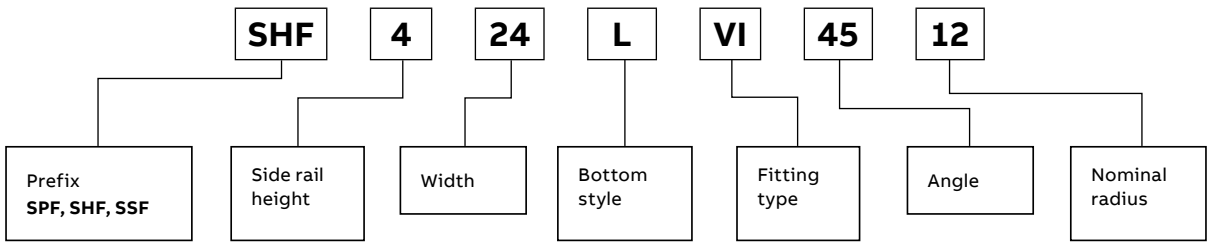
45° Vertical bend fittings

45° Vertical bends

	Nominal			Dimensions (in.)								
				(+) VO side rail						(+) VI side rail		
				3⅝ in. – 7 in.			3½ in.			4 in.		
	Radius (in.)	Width (in.)	Cat. no.	X	Y	Z	X	Y	Z	X	Y	Z
Outside bend	12	6	Prefix(†)-06-(*)-(+)45-12	8½	3½	5	11 1/16	7⅛	6½	11 7/16	7 11/16	6 11/16
	12	9	Prefix(†)-09-(*)-(+)45-12	8½	3½	5	11 1/16	7⅛	6½	11 7/16	7 11/16	6 11/16
	12	12	Prefix(†)-12-(*)-(+)45-12	8½	3½	5	11 1/16	7⅛	6½	11 7/16	7 11/16	6 11/16
	12	18	Prefix(†)-18-(*)-(+)45-12	8½	3½	5	11 1/16	7⅛	6½	11 7/16	7 11/16	6 11/16
	12	24	Prefix(†)-24-(*)-(+)45-12	8½	3½	5	11 1/16	7⅛	6½	11 7/16	7 11/16	6 11/16
	12	30	Prefix(†)-30-(*)-(+)45-12	8½	3½	5	11 1/16	7⅛	6½	11 7/16	7 11/16	6 11/16
	12	36	Prefix(†)-36-(*)-(+)45-12	8½	3½	5	11 1/16	7⅛	6½	11 7/16	7 11/16	6 11/16
	12	42	Prefix(†)-42-(*)-(+)45-12	8½	3½	5	11 1/16	7⅛	6½	11 7/16	7 11/16	6 11/16
	24	6	Prefix(†)-06-(*)-(+)45-24	17	7	9 15/16	19½	10⅝	11 7/16	19 15/16	11 3/16	11 11/16
	24	9	Prefix(†)-09-(*)-(+)45-24	17	7	9 15/16	19½	10⅝	11 7/16	19 15/16	11 3/16	11 11/16
	24	12	Prefix(†)-12-(*)-(+)45-24	17	7	9 15/16	19½	10⅝	11 7/16	19 15/16	11 3/16	11 11/16
	24	18	Prefix(†)-18-(*)-(+)45-24	17	7	9 15/16	19½	10⅝	11 7/16	19 15/16	11 3/16	11 11/16
	24	24	Prefix(†)-24-(*)-(+)45-24	17	7	9 15/16	19½	10⅝	11 7/16	19 15/16	11 3/16	11 11/16
	24	30	Prefix(†)-30-(*)-(+)45-24	17	7	9 15/16	19½	10⅝	11 7/16	19 15/16	11 3/16	11 11/16
	24	36	Prefix(†)-36-(*)-(+)45-24	17	7	9 15/16	19½	10⅝	11 7/16	19 15/16	11 3/16	11 11/16
	24	42	Prefix(†)-42-(*)-(+)45-24	17	7	9 15/16	19½	10⅝	11 7/16	19 15/16	11 3/16	11 11/16
Inside bend	36	6	Prefix(†)-06-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	28	14 3/16	16 7/16	28 7/16	14¾	16⅝
	36	9	Prefix(†)-09-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	28	14 3/16	16 7/16	28 7/16	14¾	16⅝
	36	12	Prefix(†)-12-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	28	14 3/16	16 7/16	28 7/16	14¾	16⅝
	36	18	Prefix(†)-18-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	28	14 3/16	16 7/16	28 7/16	14¾	16⅝
	36	24	Prefix(†)-24-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	28	14 3/16	16 7/16	28 7/16	14¾	16⅝
	36	30	Prefix(†)-30-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	28	14 3/16	16 7/16	28 7/16	14¾	16⅝
	36	36	Prefix(†)-36-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	28	14 3/16	16 7/16	28 7/16	14¾	16⅝
	36	42	Prefix(†)-42-(*)-(+)45-36	25 7/16	10 9/16	14 15/16	28	14 3/16	16 7/16	28 7/16	14¾	16⅝
	48	6	Prefix(†)-06-(*)-(+)45-48	33 15/16	14 1/16	19⅞	36½	17 11/16	21⅜	36⅞	18¼	21⅝
	48	9	Prefix(†)-09-(*)-(+)45-48	33 15/16	14 1/16	19⅞	36½	17 11/16	21⅜	36⅞	18¼	21⅝
	48	12	Prefix(†)-12-(*)-(+)45-48	33 15/16	14 1/16	19⅞	36½	17 11/16	21⅜	36⅞	18¼	21⅝
	48	18	Prefix(†)-18-(*)-(+)45-48	33 15/16	14 1/16	19⅞	36½	17 11/16	21⅜	36⅞	18¼	21⅝
	48	24	Prefix(†)-24-(*)-(+)45-48	33 15/16	14 1/16	19⅞	36½	17 11/16	21⅜	36⅞	18¼	21⅝
	48	30	Prefix(†)-30-(*)-(+)45-48	33 15/16	14 1/16	19⅞	36½	17 11/16	21⅜	36⅞	18¼	21⅝
	48	36	Prefix(†)-36-(*)-(+)45-48	33 15/16	14 1/16	19⅞	36½	17 11/16	21⅜	36⅞	18¼	21⅝
	48	42	Prefix(†)-42-(*)-(+)45-48	33 15/16	14 1/16	19⅞	36½	17 11/16	21⅜	36⅞	18¼	21⅝

(†) Insert side rail height. (*) Insert bottom (+) Insert "VO" for vertical outside or "VI" for vertical inside style to complete cat. no. Includes 1 pair of splice plates with hardware.

Part numbering system



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45° Vertical bends (continued)

			Dimensions (in.)								
			(+) VI side rail								
Nominal			**5 in.**			**6 in.**			**7 in.**		
Radius (in.)	**Width (in.)**	**Cat. no.**	**X**	**Y**	**Z**	**X**	**Y**	**Z**	**X**	**Y**	**Z**
12	6	Prefix(†)-06-(*)-(+)45-12	12 1/8	8 11/16	7 1/8	12 7/8	9 11/16	7 1/2	13 9/16	10 11/16	7 15/16
12	9	Prefix(†)-09-(*)-(+)45-12	12 1/8	8 11/16	7 1/8	12 7/8	9 11/16	7 1/2	13 9/16	10 11/16	7 15/16
12	12	Prefix(†)-12-(*)-(+)45-12	12 1/8	8 11/16	7 1/8	12 7/8	9 11/16	7 1/2	13 9/16	10 11/16	7 15/16
12	18	Prefix(†)-18-(*)-(+)45-12	12 1/8	8 11/16	7 1/8	12 7/8	9 11/16	7 1/2	13 9/16	10 11/16	7 15/16
12	24	Prefix(†)-24-(*)-(+)45-12	12 1/8	8 11/16	7 1/8	12 7/8	9 11/16	7 1/2	13 9/16	10 11/16	7 15/16
12	30	Prefix(†)-30-(*)-(+)45-12	12 1/8	8 11/16	7 1/8	12 7/8	9 11/16	7 1/2	13 9/16	10 11/16	7 15/16
12	36	Prefix(†)-36-(*)-(+)45-12	12 1/8	8 11/16	7 1/8	12 7/8	9 11/16	7 1/2	13 9/16	10 11/16	7 15/16
12	42	Prefix(†)-42-(*)-(+)45-12	12 1/8	8 11/16	7 1/8	12 7/8	9 11/16	7 1/2	13 9/16	10 11/16	7 15/16
24	6	Prefix(†)-06-(*)-(+)45-24	20 5/8	12 3/16	12 1/16	21 3/8	13 3/16	12 1/2	22 1/16	14 3/16	12 15/16
24	9	Prefix(†)-09-(*)-(+)45-24	20 5/8	12 3/16	12 1/16	21 3/8	13 3/16	12 1/2	22 1/16	14 3/16	12 15/16
24	12	Prefix(†)-12-(*)-(+)45-24	20 5/8	12 3/16	12 1/16	21 3/8	13 3/16	12 1/2	22 1/16	14 3/16	12 15/16
24	18	Prefix(†)-18-(*)-(+)45-24	20 5/8	12 3/16	12 1/16	21 3/8	13 3/16	12 1/2	22 1/16	14 3/16	12 15/16
24	24	Prefix(†)-24-(*)-(+)45-24	20 5/8	12 3/16	12 1/16	21 3/8	13 3/16	12 1/2	22 1/16	14 3/16	12 15/16
24	30	Prefix(†)-30-(*)-(+)45-24	20 5/8	12 3/16	12 1/16	21 3/8	13 3/16	12 1/2	22 1/16	14 3/16	12 15/16
24	36	Prefix(†)-36-(*)-(+)45-24	20 5/8	12 3/16	12 1/16	21 3/8	13 3/16	12 1/2	22 1/16	14 3/16	12 15/16
24	42	Prefix(†)-42-(*)-(+)45-24	20 5/8	12 3/16	12 1/16	21 3/8	13 3/16	12 1/2	22 1/16	14 3/16	12 15/16
36	6	Prefix(†)-06-(*)-(+)45-36	29 1/8	15 3/4	17 1/16	29 13/16	16 3/4	17 1/2	30 1/2	17 3/4	17 7/8
36	9	Prefix(†)-09-(*)-(+)45-36	29 1/8	15 3/4	17 1/16	29 13/16	16 3/4	17 1/2	30 1/2	17 3/4	17 7/8
36	12	Prefix(†)-12-(*)-(+)45-36	29 1/8	15 3/4	17 1/16	29 13/16	16 3/4	17 1/2	30 1/2	17 3/4	17 7/8
36	18	Prefix(†)-18-(*)-(+)45-36	29 1/8	15 3/4	17 1/16	29 13/16	16 3/4	17 1/2	30 1/2	17 3/4	17 7/8
36	24	Prefix(†)-24-(*)-(+)45-36	29 1/8	15 3/4	17 1/16	29 13/16	16 3/4	17 1/2	30 1/2	17 3/4	17 7/8
36	30	Prefix(†)-30-(*)-(+)45-36	29 1/8	15 3/4	17 1/16	29 13/16	16 3/4	17 1/2	30 1/2	17 3/4	17 7/8
36	36	Prefix(†)-36-(*)-(+)45-36	29 1/8	15 3/4	17 1/16	29 13/16	16 3/4	17 1/2	30 1/2	17 3/4	17 7/8
36	42	Prefix(†)-42-(*)-(+)45-36	29 1/8	15 3/4	17 1/16	29 13/16	16 3/4	17 1/2	30 1/2	17 3/4	17 7/8
48	6	Prefix(†)-06-(*)-(+)45-48	37 5/8	19 1/4	22	39 5/16	20 1/4	22 7/16	39	21 1/4	22 7/8
48	9	Prefix(†)-09-(*)-(+)45-48	37 5/8	19 1/4	22	39 5/16	20 1/4	22 7/16	39	21 1/4	22 7/8
48	12	Prefix(†)-12-(*)-(+)45-48	37 5/8	19 1/4	22	39 5/16	20 1/4	22 7/16	39	21 1/4	22 7/8
48	18	Prefix(†)-18-(*)-(+)45-48	37 5/8	19 1/4	22	39 5/16	20 1/4	22 7/16	39	21 1/4	22 7/8
48	24	Prefix(†)-24-(*)-(+)45-48	37 5/8	19 1/4	22	39 5/16	20 1/4	22 7/16	39	21 1/4	22 7/8
48	30	Prefix(†)-30-(*)-(+)45-48	37 5/8	19 1/4	22	39 5/16	20 1/4	22 7/16	39	21 1/4	22 7/8
48	36	Prefix(†)-36-(*)-(+)45-48	37 5/8	19 1/4	22	39 5/16	20 1/4	22 7/16	39	21 1/4	22 7/8
48	42	Prefix(†)-42-(*)-(+)45-48	37 5/8	19 1/4	22	39 5/16	20 1/4	22 7/16	39	21 1/4	22 7/8

(†) Insert side rail height. (*) Insert bottom (+) Insert "VO" for vertical outside or "VI" for vertical inside style to complete cat. no. Includes 1 pair of splice plates with hardware.

Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 45°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

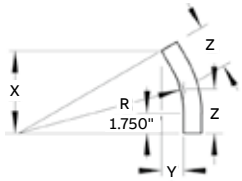
Steel fittings

30° Vertical bend fittings

30° Vertical bends

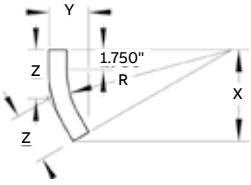
Outside bend





Inside bend

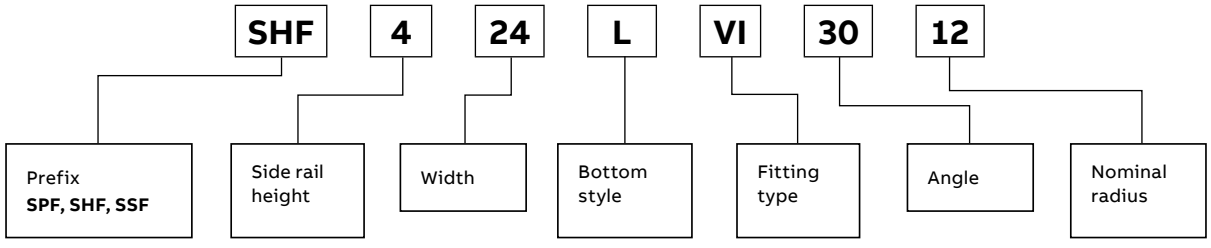




				Dimensions (in.)								
				(+) VO side rail						(+) VI side rail		
	Nominal			3⅝ – 7 in.			3½ in.			4 in.		
	Radius (in.)	Width (in.)	Cat. no.	X	Y	Z	X	Y	Z	X	Y	Z
	12	6	Prefix(†)-06-(*)-(+)30-12	6	1⅝	3 3/16	7 13/16	5¼	4 3/16	8 1/16	15 13/16	4 5/16
	12	9	Prefix(†)-09-(*)-(+)30-12	6	1⅝	3 3/16	7 13/16	5¼	4 3/16	8 1/16	15 13/16	4 5/16
	12	12	Prefix(†)-12-(*)-(+)30-12	6	1⅝	3 3/16	7 13/16	5¼	4 3/16	8 1/16	15 13/16	4 5/16
	12	18	Prefix(†)-18-(*)-(+)30-12	6	1⅝	3 3/16	7 13/16	5¼	4 3/16	8 1/16	15 13/16	4 5/16
	12	24	Prefix(†)-24-(*)-(+)30-12	6	1⅝	3 3/16	7 13/16	5¼	4 3/16	8 1/16	15 13/16	4 5/16
	12	30	Prefix(†)-30-(*)-(+)30-12	6	1⅝	3 3/16	7 13/16	5¼	4 3/16	8 1/16	15 13/16	4 5/16
	12	36	Prefix(†)-36-(*)-(+)30-12	6	1⅝	3 3/16	7 13/16	5¼	4 3/16	8 1/16	15 13/16	4 5/16
	12	42	Prefix(†)-42-(*)-(+)30-12	6	1⅝	3 3/16	7 13/16	5¼	4 3/16	8 1/16	15 13/16	4 5/16
	24	6	Prefix(†)-06-(*)-(+)30-24	12	3 3/16	6 7/16	13 13/16	6 13/16	7⅜	14 1/16	7⅜	7 9/16
	24	9	Prefix(†)-09-(*)-(+)30-24	12	3 3/16	6 7/16	13 13/16	6 13/16	7⅜	14 1/16	7⅜	7 9/16
	24	12	Prefix(†)-12-(*)-(+)30-24	12	3 3/16	6 7/16	13 13/16	6 13/16	7⅜	14 1/16	7⅜	7 9/16
	24	18	Prefix(†)-18-(*)-(+)30-24	12	3 3/16	6 7/16	13 13/16	6 13/16	7⅜	14 1/16	7⅜	7 9/16
	24	24	Prefix(†)-24-(*)-(+)30-24	12	3 3/16	6 7/16	13 13/16	6 13/16	7⅜	14 1/16	7⅜	7 9/16
	24	30	Prefix(†)-30-(*)-(+)30-24	12	3 3/16	6 7/16	13 13/16	6 13/16	7⅜	14 1/16	7⅜	7 9/16
	24	36	Prefix(†)-36-(*)-(+)30-24	12	3 3/16	6 7/16	13 13/16	6 13/16	7⅜	14 1/16	7⅜	7 9/16
	24	42	Prefix(†)-42-(*)-(+)30-24	12	3 3/16	6 7/16	13 13/16	6 13/16	7⅜	14 1/16	7⅜	7 9/16
	36	6	Prefix(†)-06-(*)-(+)30-36	18	4 13/16	9⅝	19 13/16	8 7/16	10⅝	20 1/16	9	10¾
	36	9	Prefix(†)-09-(*)-(+)30-36	18	4 13/16	9⅝	19 13/16	8 7/16	10⅝	20 1/16	9	10¾
	36	12	Prefix(†)-12-(*)-(+)30-36	18	4 13/16	9⅝	19 13/16	8 7/16	10⅝	20 1/16	9	10¾
	36	18	Prefix(†)-18-(*)-(+)30-36	18	4 13/16	9⅝	19 13/16	8 7/16	10⅝	20 1/16	9	10¾
	36	24	Prefix(†)-24-(*)-(+)30-36	18	4 13/16	9⅝	19 13/16	8 7/16	10⅝	20 1/16	9	10¾
	36	30	Prefix(†)-30-(*)-(+)30-36	18	4 13/16	9⅝	19 13/16	8 7/16	10⅝	20 1/16	9	10¾
	36	36	Prefix(†)-36-(*)-(+)30-36	18	4 13/16	9⅝	19 13/16	8 7/16	10⅝	20 1/16	9	10¾
	36	42	Prefix(†)-42-(*)-(+)30-36	18	4 13/16	9⅝	19 13/16	8 7/16	10⅝	20 1/16	9	10¾
	48	6	Prefix(†)-06-(*)-(+)30-48	24	6 7/16	12⅞	25 13/16	10 1/16	13 13/16	26 1/16	10⅝	14
	48	9	Prefix(†)-09-(*)-(+)30-48	24	6 7/16	12⅞	25 13/16	10 1/16	13 13/16	26 1/16	10⅝	14
	48	12	Prefix(†)-12-(*)-(+)30-48	24	6 7/16	12⅞	25 13/16	10 1/16	13 13/16	26 1/16	10⅝	14
	48	18	Prefix(†)-18-(*)-(+)30-48	24	6 7/16	12⅞	25 13/16	10 1/16	13 13/16	26 1/16	10⅝	14
	48	24	Prefix(†)-24-(*)-(+)30-48	24	6 7/16	12⅞	25 13/16	10 1/16	13 13/16	26 1/16	10⅝	14
	48	30	Prefix(†)-30-(*)-(+)30-48	24	6 7/16	12⅞	25 13/16	10 1/16	13 13/16	26 1/16	10⅝	14
	48	36	Prefix(†)-36-(*)-(+)30-48	24	6 7/16	12⅞	25 13/16	10 1/16	13 13/16	26 1/16	10⅝	14
	48	42	Prefix(†)-42-(*)-(+)30-48	24	6 7/16	12⅞	25 13/16	10 1/16	13 13/16	26 1/16	10⅝	14

(†) Insert side rail height. (*) Insert bottom (+) Insert "VO" for vertical outside or "VI" for vertical inside style to complete cat. no. Includes 1 pair of splice plates with hardware.

Part numbering system



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30° Vertical bends (continued)

Nominal			Dimensions (in.) (+) VI side rail								
			5 in.			6 in.			7 in.		
Radius (in.)	Width (in.)	Cat. no.	X	Y	Z	X	Y	Z	X	Y	Z
12	6	Prefix(†)-06-(*)-(+)30-12	8 9/16	6 13/16	4 5/8	9 1/16	7 13/16	4 7/8	9 9/16	8 13/16	5 1/8
12	9	Prefix(†)-09-(*)-(+)30-12	8 9/16	6 13/16	4 5/8	9 1/16	7 13/16	4 7/8	9 9/16	8 13/16	5 1/8
12	12	Prefix(†)-12-(*)-(+)30-12	8 9/16	6 13/16	4 5/8	9 1/16	7 13/16	4 7/8	9 9/16	8 13/16	5 1/8
12	18	Prefix(†)-18-(*)-(+)30-12	8 9/16	6 13/16	4 5/8	9 1/16	7 13/16	4 7/8	9 9/16	8 13/16	5 1/8
12	24	Prefix(†)-24-(*)-(+)30-12	8 9/16	6 13/16	4 5/8	9 1/16	7 13/16	4 7/8	9 9/16	8 13/16	5 1/8
12	30	Prefix(†)-30-(*)-(+)30-12	8 9/16	6 13/16	4 5/8	9 1/16	7 13/16	4 7/8	9 9/16	8 13/16	5 1/8
12	36	Prefix(†)-36-(*)-(+)30-12	8 9/16	6 13/16	4 5/8	9 1/16	7 13/16	4 7/8	9 9/16	8 13/16	5 1/8
12	42	Prefix(†)-42-(*)-(+)30-12	8 9/16	6 13/16	4 5/8	9 1/16	7 13/16	4 7/8	9 9/16	8 13/16	5 1/8
24	6	Prefix(†)-06-(*)-(+)30-24	14 9/16	8 3/8	7 13/16	15 1/16	9 3/8	8 1/16	15 9/16	10 3/8	8 3/8
24	9	Prefix(†)-09-(*)-(+)30-24	14 9/16	8 3/8	7 13/16	15 1/16	9 3/8	8 1/16	15 9/16	10 3/8	8 3/8
24	12	Prefix(†)-12-(*)-(+)30-24	14 9/16	8 3/8	7 13/16	15 1/16	9 3/8	8 1/16	15 9/16	10 3/8	8 3/8
24	18	Prefix(†)-18-(*)-(+)30-24	14 9/16	8 3/8	7 13/16	15 1/16	9 3/8	8 1/16	15 9/16	10 3/8	8 3/8
24	24	Prefix(†)-24-(*)-(+)30-24	14 9/16	8 3/8	7 13/16	15 1/16	9 3/8	8 1/16	15 9/16	10 3/8	8 3/8
24	30	Prefix(†)-30-(*)-(+)30-24	14 9/16	8 3/8	7 13/16	15 1/16	9 3/8	8 1/16	15 9/16	10 3/8	8 3/8
24	36	Prefix(†)-36-(*)-(+)30-24	14 9/16	8 3/8	7 13/16	15 1/16	9 3/8	8 1/16	15 9/16	10 3/8	8 3/8
24	42	Prefix(†)-42-(*)-(+)30-24	14 9/16	8 3/8	7 13/16	15 1/16	9 3/8	8 1/16	15 9/16	10 3/8	8 3/8
36	6	Prefix(†)-06-(*)-(+)30-36	20 1/16	10	11 1/16	21 1/16	11	11 5/16	21 9/16	12	11 9/16
36	9	Prefix(†)-09-(*)-(+)30-36	20 1/16	10	11 1/16	21 1/16	11	11 5/16	21 9/16	12	11 9/16
36	12	Prefix(†)-12-(*)-(+)30-36	20 1/16	10	11 1/16	21 1/16	11	11 5/16	21 9/16	12	11 9/16
36	18	Prefix(†)-18-(*)-(+)30-36	20 1/16	10	11 1/16	21 1/16	11	11 5/16	21 9/16	12	11 9/16
36	24	Prefix(†)-24-(*)-(+)30-36	20 1/16	10	11 1/16	21 1/16	11	11 5/16	21 9/16	12	11 9/16
36	30	Prefix(†)-30-(*)-(+)30-36	20 1/16	10	11 1/16	21 1/16	11	11 5/16	21 9/16	12	11 9/16
36	36	Prefix(†)-36-(*)-(+)30-36	20 1/16	10	11 1/16	21 1/16	11	11 5/16	21 9/16	12	11 9/16
36	42	Prefix(†)-42-(*)-(+)30-36	20 1/16	10	11 1/16	21 1/16	11	11 5/16	21 9/16	12	11 9/16
48	6	Prefix(†)-06-(*)-(+)30-48	26 9/16	11 5/8	14 1/4	27 1/16	12 5/8	14 1/2	27 9/16	13 5/8	14 13/16
48	9	Prefix(†)-09-(*)-(+)30-48	26 9/16	11 5/8	14 1/4	27 1/16	12 5/8	14 1/2	27 9/16	13 5/8	14 13/16
48	12	Prefix(†)-12-(*)-(+)30-48	26 9/16	11 5/8	14 1/4	27 1/16	12 5/8	14 1/2	27 9/16	13 5/8	14 13/16
48	18	Prefix(†)-18-(*)-(+)30-48	26 9/16	11 5/8	14 1/4	27 1/16	12 5/8	14 1/2	27 9/16	13 5/8	14 13/16
48	24	Prefix(†)-24-(*)-(+)30-48	26 9/16	11 5/8	14 1/4	27 1/16	12 5/8	14 1/2	27 9/16	13 5/8	14 13/16
48	30	Prefix(†)-30-(*)-(+)30-48	26 9/16	11 5/8	14 1/4	27 1/16	12 5/8	14 1/2	27 9/16	13 5/8	14 13/16
48	36	Prefix(†)-36-(*)-(+)30-48	26 9/16	11 5/8	14 1/4	27 1/16	12 5/8	14 1/2	27 9/16	13 5/8	14 13/16
48	42	Prefix(†)-42-(*)-(+)30-48	26 9/16	11 5/8	14 1/4	27 1/16	12 5/8	14 1/2	27 9/16	13 5/8	14 13/16

(†) Insert side rail height. (*) Insert bottom (+) Insert "VO" for vertical outside or "VI" for vertical inside style to complete cat. no. Includes 1 pair of splice plates with hardware.

Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Angle: 30°
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Steel fittings

Reducer fittings

Offset reducer – left



Reducer – straight



Offset reducer – right



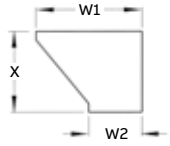
Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Tray widths W1: 42, 36, 30, 24, 18, 12, 9 in.
- Tray widths W2: 36, 30, 24, 18, 12, 9, 6 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

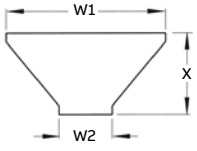
Horizontal reducer

Widths (in.)		Left reducer		Straight reducer (concentric)		Right reducer	
W1	W2	cat. no.	Dim. X (in.)	cat. no.	Dim. X (in.)	cat. no.	Dim. X (in.)
42	36	Prefix(†)-42-36-(*)-HLR	15 7/16	Prefix(†)-42-36-(*)-HSR	13 3/4	Prefix(†)-42-36-(*)-HRR	15 7/16
42	30	Prefix(†)-42-30-(*)-HLR	18 15/16	Prefix(†)-42-30-(*)-HSR	15 7/16	Prefix(†)-42-30-(*)-HRR	18 15/16
42	24	Prefix(†)-42-24-(*)-HLR	22 3/8	Prefix(†)-42-24-(*)-HSR	17 3/16	Prefix(†)-42-24-(*)-HRR	22 3/8
42	18	Prefix(†)-42-18-(*)-HLR	25 7/8	Prefix(†)-42-18-(*)-HSR	18 5/16	Prefix(†)-42-18-(*)-HRR	25 7/8
42	12	Prefix(†)-42-12-(*)-HLR	29 5/16	Prefix(†)-42-12-(*)-HSR	20 5/8	Prefix(†)-42-12-(*)-HRR	29 5/16
42	9	Prefix(†)-42-09-(*)-HLR	31 1/16	Prefix(†)-42-09-(*)-HSR	21 1/2	Prefix(†)-42-09-(*)-HRR	31 1/16
42	6	Prefix(†)-42-06-(*)-HLR	32 3/4	Prefix(†)-42-06-(*)-HSR	22 3/8	Prefix(†)-42-06-(*)-HRR	32 3/4
36	30	Prefix(†)-36-30-(*)-HLR	15 7/16	Prefix(†)-36-30-(*)-HSR	13 3/4	Prefix(†)-36-30-(*)-HRR	15 7/16
36	24	Prefix(†)-36-24-(*)-HLR	18 15/16	Prefix(†)-36-24-(*)-HSR	15 7/16	Prefix(†)-36-24-(*)-HRR	18 15/16
36	18	Prefix(†)-36-18-(*)-HLR	22 3/8	Prefix(†)-36-18-(*)-HSR	17 3/8	Prefix(†)-36-18-(*)-HRR	22 3/8
36	12	Prefix(†)-36-12-(*)-HLR	25 7/8	Prefix(†)-36-12-(*)-HSR	18 5/16	Prefix(†)-36-12-(*)-HRR	25 7/8
36	9	Prefix(†)-36-09-(*)-HLR	27 9/16	Prefix(†)-36-09-(*)-HSR	19 13/16	Prefix(†)-36-09-(*)-HRR	27 9/16
36	6	Prefix(†)-36-06-(*)-HLR	29 5/16	Prefix(†)-36-06-(*)-HSR	20 11/16	Prefix(†)-36-06-(*)-HRR	29 5/16
30	24	Prefix(†)-30-24-(*)-HLR	15 7/16	Prefix(†)-30-24-(*)-HSR	13 3/4	Prefix(†)-30-24-(*)-HRR	15 7/16
30	18	Prefix(†)-30-18-(*)-HLR	18 15/16	Prefix(†)-30-18-(*)-HSR	15 7/16	Prefix(†)-30-18-(*)-HRR	18 15/16
30	12	Prefix(†)-30-12-(*)-HLR	22 3/8	Prefix(†)-30-12-(*)-HSR	17 3/16	Prefix(†)-30-12-(*)-HRR	22 3/8
30	9	Prefix(†)-30-09-(*)-HLR	24 1/8	Prefix(†)-30-09-(*)-HSR	18 1/16	Prefix(†)-30-09-(*)-HRR	24 1/8
30	6	Prefix(†)-30-06-(*)-HLR	25 7/8	Prefix(†)-30-06-(*)-HSR	18 15/16	Prefix(†)-30-06-(*)-HRR	25 7/8
24	18	Prefix(†)-24-18-(*)-HLR	15 7/16	Prefix(†)-24-18-(*)-HSR	13 3/4	Prefix(†)-24-18-(*)-HRR	15 7/16
24	12	Prefix(†)-24-12-(*)-HLR	18 15/16	Prefix(†)-24-12-(*)-HSR	15 7/16	Prefix(†)-24-12-(*)-HRR	18 15/16
24	9	Prefix(†)-24-09-(*)-HLR	20 11/16	Prefix(†)-24-09-(*)-HSR	16 5/16	Prefix(†)-24-09-(*)-HRR	20 11/16
24	6	Prefix(†)-24-06-(*)-HLR	22 3/8	Prefix(†)-24-06-(*)-HSR	17 3/16	Prefix(†)-24-06-(*)-HRR	22 3/8
18	12	Prefix(†)-18-12-(*)-HLR	15 7/16	Prefix(†)-18-12-(*)-HSR	13 3/4	Prefix(†)-18-12-(*)-HRR	15 7/16
18	9	Prefix(†)-18-09-(*)-HLR	17 3/16	Prefix(†)-18-09-(*)-HSR	14 5/8	Prefix(†)-18-09-(*)-HRR	17 3/16
18	6	Prefix(†)-18-06-(*)-HLR	18 15/16	Prefix(†)-18-06-(*)-HSR	15 7/16	Prefix(†)-18-06-(*)-HRR	18 15/16
12	9	Prefix(†)-12-09-(*)-HLR	13 3/4	Prefix(†)-12-09-(*)-HSR	12 7/8	Prefix(†)-12-09-(*)-HRR	13 3/4
12	6	Prefix(†)-12-06-(*)-HLR	15 7/16	Prefix(†)-12-06-(*)-HSR	13 3/4	Prefix(†)-12-06-(*)-HRR	15 7/16
9	6	Prefix(†)-09-06-(*)-HLR	13 3/4	Prefix(†)-09-06-(*)-HSR	12 7/8	Prefix(†)-09-06-(*)-HRR	13 3/4

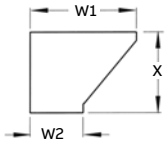
Offset reducer – left



Reducer – straight



Offset reducer – right

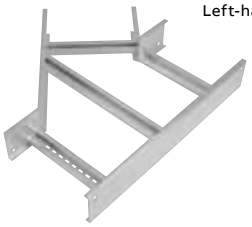


(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.

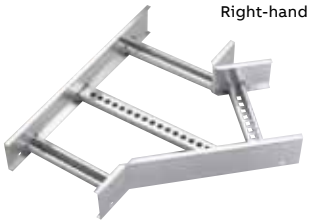
Steel fittings

45° Horizontal wye fittings

Left-hand wye



Right-hand wye



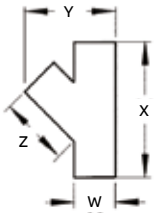
Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

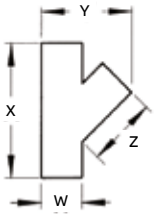
45° Horizontal wye

Width (in.)	Left-hand wye cat. no.	Right-hand wye cat. no.	Dimensions (in.) X	Y	Z
6	Prefix(†)-06-(*)-HYL	Prefix(†)-06-(*)-HYR	18 5/16	14 13/16	12 7/16
9	Prefix(†)-09-(*)-HYL	Prefix(†)-09-(*)-HYR	22 1/2	19 15/16	15 7/16
12	Prefix(†)-12-(*)-HYL	Prefix(†)-12-(*)-HYR	26 3/4	25	18 7/16
18	Prefix(†)-18-(*)-HYL	Prefix(†)-18-(*)-HYR	35 1/4	35 1/4	24 7/16
24	Prefix(†)-24-(*)-HYL	Prefix(†)-24-(*)-HYR	43 1/2	45 1/2	30 7/16
30	Prefix(†)-30-(*)-HYL	Prefix(†)-30-(*)-HYR	52 1/4	55 3/4	36 7/16
36	Prefix(†)-36-(*)-HYL	Prefix(†)-36-(*)-HYR	60 11/16	66	42 7/16
42	Prefix(†)-42-(*)-HYL	Prefix(†)-42-(*)-HYR	69 3/16	76 1/4	45 7/16

Left-hand wye

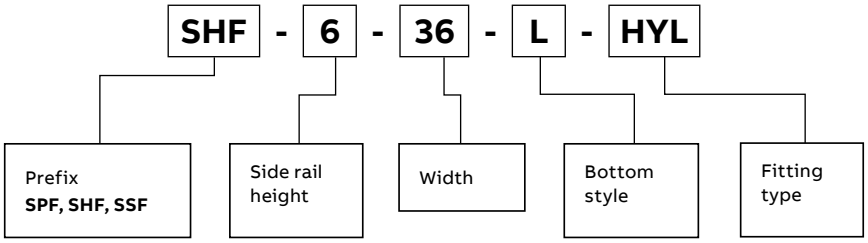


Right-hand wye

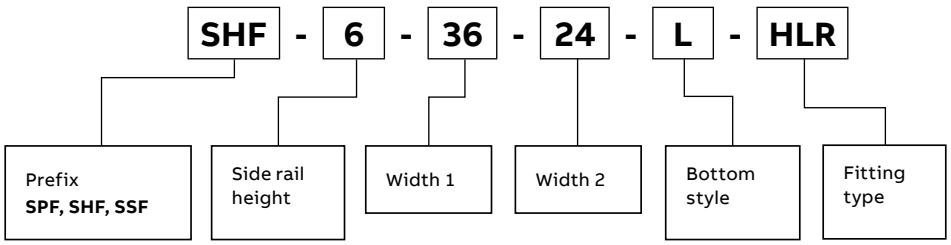


(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.

Part numbering system (45° Horizontal wye)



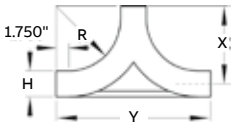
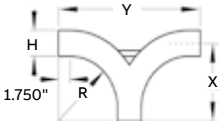
Part numbering system (Horizontal reducer – see page 146)



Steel fittings

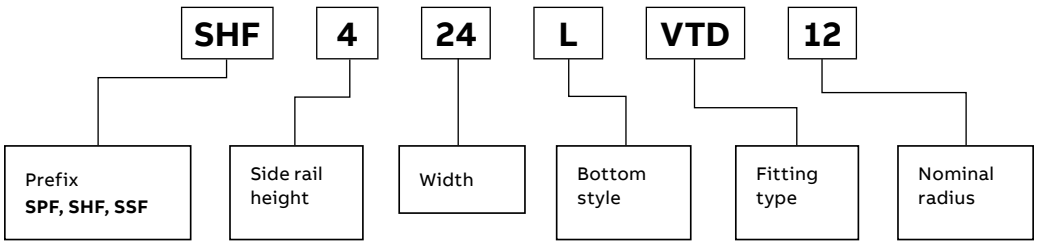
Vertical tee up/down fittings

Vertical tee up/down

	Nominal				Dimensions (in.)			
					Side rail height "H"			
					3⅝ in.		4 in.	
	Radius (in.)	Width (in.)	Vertical tee up cat. no.	Vertical tee down cat. no.	X	Y	X	Y
Up	12	6	Prefix(†)-06-(*)-VTU12	Prefix(†)-06-(*)-VTD12	13 13/16	27 5/8	14 1/8	28 3/16
	12	9	Prefix(†)-09-(*)-VTU12	Prefix(†)-09-(*)-VTD12	13 13/16	27 5/8	14 1/8	28 3/16
	12	12	Prefix(†)-12-(*)-VTU12	Prefix(†)-12-(*)-VTD12	13 13/16	27 5/8	14 1/8	28 3/16
	12	18	Prefix(†)-18-(*)-VTU12	Prefix(†)-18-(*)-VTD12	13 13/16	27 5/8	14 1/8	28 3/16
	12	24	Prefix(†)-24-(*)-VTU12	Prefix(†)-24-(*)-VTD12	13 13/16	27 5/8	14 1/8	28 3/16
	12	30	Prefix(†)-30-(*)-VTU12	Prefix(†)-30-(*)-VTD12	13 13/16	27 5/8	14 1/8	28 3/16
	12	36	Prefix(†)-36-(*)-VTU12	Prefix(†)-36-(*)-VTD12	13 13/16	27 5/8	14 1/8	28 3/16
	12	42	Prefix(†)-42-(*)-VTU12	Prefix(†)-42-(*)-VTD12	13 13/16	27 5/8	14 1/8	28 3/16
	24	6	Prefix(†)-06-(*)-VTU24	Prefix(†)-06-(*)-VTD24	25 13/16	51 5/8	26 1/8	52 3/16
	24	9	Prefix(†)-09-(*)-VTU24	Prefix(†)-09-(*)-VTD24	25 13/16	51 5/8	26 1/8	52 3/16
	24	12	Prefix(†)-12-(*)-VTU24	Prefix(†)-12-(*)-VTD24	25 13/16	51 5/8	26 1/8	52 3/16
	24	18	Prefix(†)-18-(*)-VTU24	Prefix(†)-18-(*)-VTD24	25 13/16	51 5/8	26 1/8	52 3/16
	24	24	Prefix(†)-24-(*)-VTU24	Prefix(†)-24-(*)-VTD24	25 13/16	51 5/8	26 1/8	52 3/16
	24	30	Prefix(†)-30-(*)-VTU24	Prefix(†)-30-(*)-VTD24	25 13/16	51 5/8	26 1/8	52 3/16
	24	36	Prefix(†)-36-(*)-VTU24	Prefix(†)-36-(*)-VTD24	25 13/16	51 5/8	26 1/8	52 3/16
	24	42	Prefix(†)-42-(*)-VTU24	Prefix(†)-42-(*)-VTD24	25 13/16	51 5/8	26 1/8	52 3/16
Down	36	6	Prefix(†)-06-(*)-VTU36	Prefix(†)-06-(*)-VTD36	37 13/16	75 5/8	38 1/8	76 3/16
	36	9	Prefix(†)-09-(*)-VTU36	Prefix(†)-09-(*)-VTD36	37 13/16	75 5/8	38 1/8	76 3/16
	36	12	Prefix(†)-12-(*)-VTU36	Prefix(†)-12-(*)-VTD36	37 13/16	75 5/8	38 1/8	76 3/16
	36	18	Prefix(†)-18-(*)-VTU36	Prefix(†)-18-(*)-VTD36	37 13/16	75 5/8	38 1/8	76 3/16
	36	24	Prefix(†)-24-(*)-VTU36	Prefix(†)-24-(*)-VTD36	37 13/16	75 5/8	38 1/8	76 3/16
	36	30	Prefix(†)-30-(*)-VTU36	Prefix(†)-30-(*)-VTD36	37 13/16	75 5/8	38 1/8	76 3/16
	36	36	Prefix(†)-36-(*)-VTU36	Prefix(†)-36-(*)-VTD36	37 13/16	75 5/8	38 1/8	76 3/16
	36	42	Prefix(†)-42-(*)-VTU36	Prefix(†)-42-(*)-VTD36	37 13/16	75 5/8	38 1/8	76 3/16
	48	6	Prefix(†)-06-(*)-VTU48	Prefix(†)-06-(*)-VTD48	49 13/16	99 5/8	50 1/8	100 3/16
	48	9	Prefix(†)-09-(*)-VTU48	Prefix(†)-09-(*)-VTD48	49 13/16	99 5/8	50 1/8	100 3/16
	48	12	Prefix(†)-12-(*)-VTU48	Prefix(†)-12-(*)-VTD48	49 13/16	99 5/8	50 1/8	100 3/16
	48	18	Prefix(†)-18-(*)-VTU48	Prefix(†)-18-(*)-VTD48	49 13/16	99 5/8	50 1/8	100 3/16
	48	24	Prefix(†)-24-(*)-VTU48	Prefix(†)-24-(*)-VTD48	49 13/16	99 5/8	50 1/8	100 3/16
	48	30	Prefix(†)-30-(*)-VTU48	Prefix(†)-30-(*)-VTD48	49 13/16	99 5/8	50 1/8	100 3/16
	48	36	Prefix(†)-36-(*)-VTU48	Prefix(†)-36-(*)-VTD48	49 13/16	99 5/8	50 1/8	100 3/16
	48	42	Prefix(†)-42-(*)-VTU48	Prefix(†)-42-(*)-VTD48	49 13/16	99 5/8	50 1/8	100 3/16

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.

Part numbering system



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Vertical tee up/down (continued)

Nominal				Dimensions (in.) Side rail height "H" 5 in.		6 in.		7 in.	
Radius (in.)	Width (in.)	Vertical tee up cat. no.	Vertical tee down cat. no.	X	Y	X	Y	X	Y
12	6	Prefix(†)-06-(*)-VTU12	Prefix(†)-06-(*)-VTD12	14⅝	29³⁄₁₆	15⅛	30³⁄₁₆	15⅝	31³⁄₁₆
12	9	Prefix(†)-09-(*)-VTU12	Prefix(†)-09-(*)-VTD12	14⅝	29³⁄₁₆	15⅛	30³⁄₁₆	15⅝	31³⁄₁₆
12	12	Prefix(†)-12-(*)-VTU12	Prefix(†)-12-(*)-VTD12	14⅝	29³⁄₁₆	15⅛	30³⁄₁₆	15⅝	31³⁄₁₆
12	18	Prefix(†)-18-(*)-VTU12	Prefix(†)-18-(*)-VTD12	14⅝	29³⁄₁₆	15⅛	30³⁄₁₆	15⅝	31³⁄₁₆
12	24	Prefix(†)-24-(*)-VTU12	Prefix(†)-24-(*)-VTD12	14⅝	29³⁄₁₆	15⅛	30³⁄₁₆	15⅝	31³⁄₁₆
12	30	Prefix(†)-30-(*)-VTU12	Prefix(†)-30-(*)-VTD12	14⅝	29³⁄₁₆	15⅛	30³⁄₁₆	15⅝	31³⁄₁₆
12	36	Prefix(†)-36-(*)-VTU12	Prefix(†)-36-(*)-VTD12	14⅝	29³⁄₁₆	15⅛	30³⁄₁₆	15⅝	31³⁄₁₆
12	42	Prefix(†)-42-(*)-VTU12	Prefix(†)-42-(*)-VTD12	14⅝	29³⁄₁₆	15⅛	30³⁄₁₆	15⅝	31³⁄₁₆
24	6	Prefix(†)-06-(*)-VTU24	Prefix(†)-06-(*)-VTD24	26⅝	53³⁄₁₆	27⅛	54³⁄₁₆	27⅝	55³⁄₁₆
24	9	Prefix(†)-09-(*)-VTU24	Prefix(†)-09-(*)-VTD24	26⅝	53³⁄₁₆	27⅛	54³⁄₁₆	27⅝	55³⁄₁₆
24	12	Prefix(†)-12-(*)-VTU24	Prefix(†)-12-(*)-VTD24	26⅝	53³⁄₁₆	27⅛	54³⁄₁₆	27⅝	55³⁄₁₆
24	18	Prefix(†)-18-(*)-VTU24	Prefix(†)-18-(*)-VTD24	26⅝	53³⁄₁₆	27⅛	54³⁄₁₆	27⅝	55³⁄₁₆
24	24	Prefix(†)-24-(*)-VTU24	Prefix(†)-24-(*)-VTD24	26⅝	53³⁄₁₆	27⅛	54³⁄₁₆	27⅝	55³⁄₁₆
24	30	Prefix(†)-30-(*)-VTU24	Prefix(†)-30-(*)-VTD24	26⅝	53³⁄₁₆	27⅛	54³⁄₁₆	27⅝	55³⁄₁₆
24	36	Prefix(†)-36-(*)-VTU24	Prefix(†)-36-(*)-VTD24	26⅝	53³⁄₁₆	27⅛	54³⁄₁₆	27⅝	55³⁄₁₆
24	42	Prefix(†)-42-(*)-VTU24	Prefix(†)-42-(*)-VTD24	26⅝	53³⁄₁₆	27⅛	54³⁄₁₆	27⅝	55³⁄₁₆
36	6	Prefix(†)-06-(*)-VTU36	Prefix(†)-06-(*)-VTD36	38⅝	77³⁄₁₆	39⅛	78³⁄₁₆	39⅝	79³⁄₁₆
36	9	Prefix(†)-09-(*)-VTU36	Prefix(†)-09-(*)-VTD36	38⅝	77³⁄₁₆	39⅛	78³⁄₁₆	39⅝	79³⁄₁₆
36	12	Prefix(†)-12-(*)-VTU36	Prefix(†)-12-(*)-VTD36	38⅝	77³⁄₁₆	39⅛	78³⁄₁₆	39⅝	79³⁄₁₆
36	18	Prefix(†)-18-(*)-VTU36	Prefix(†)-18-(*)-VTD36	38⅝	77³⁄₁₆	39⅛	78³⁄₁₆	39⅝	79³⁄₁₆
36	24	Prefix(†)-24-(*)-VTU36	Prefix(†)-24-(*)-VTD36	38⅝	77³⁄₁₆	39⅛	78³⁄₁₆	39⅝	79³⁄₁₆
36	30	Prefix(†)-30-(*)-VTU36	Prefix(†)-30-(*)-VTD36	38⅝	77³⁄₁₆	39⅛	78³⁄₁₆	39⅝	79³⁄₁₆
36	36	Prefix(†)-36-(*)-VTU36	Prefix(†)-36-(*)-VTD36	38⅝	77³⁄₁₆	39⅛	78³⁄₁₆	39⅝	79³⁄₁₆
36	42	Prefix(†)-42-(*)-VTU36	Prefix(†)-42-(*)-VTD36	38⅝	77³⁄₁₆	39⅛	78³⁄₁₆	39⅝	79³⁄₁₆
48	6	Prefix(†)-06-(*)-VTU48	Prefix(†)-06-(*)-VTD48	50⅝	101³⁄₁₆	51⅛	102³⁄₁₆	51⅝	103³⁄₁₆
48	9	Prefix(†)-09-(*)-VTU48	Prefix(†)-09-(*)-VTD48	50⅝	101³⁄₁₆	51⅛	102³⁄₁₆	51⅝	103³⁄₁₆
48	12	Prefix(†)-12-(*)-VTU48	Prefix(†)-12-(*)-VTD48	50⅝	101³⁄₁₆	51⅛	102³⁄₁₆	51⅝	103³⁄₁₆
48	18	Prefix(†)-18-(*)-VTU48	Prefix(†)-18-(*)-VTD48	50⅝	101³⁄₁₆	51⅛	102³⁄₁₆	51⅝	103³⁄₁₆
48	24	Prefix(†)-24-(*)-VTU48	Prefix(†)-24-(*)-VTD48	50⅝	101³⁄₁₆	51⅛	102³⁄₁₆	51⅝	103³⁄₁₆
48	30	Prefix(†)-30-(*)-VTU48	Prefix(†)-30-(*)-VTD48	50⅝	101³⁄₁₆	51⅛	102³⁄₁₆	51⅝	103³⁄₁₆
48	36	Prefix(†)-36-(*)-VTU48	Prefix(†)-36-(*)-VTD48	50⅝	101³⁄₁₆	51⅛	102³⁄₁₆	51⅝	103³⁄₁₆
48	42	Prefix(†)-42-(*)-VTU48	Prefix(†)-42-(*)-VTD48	50⅝	101³⁄₁₆	51⅛	102³⁄₁₆	51⅝	103³⁄₁₆

(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.

Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Steel fittings

Cable support fittings

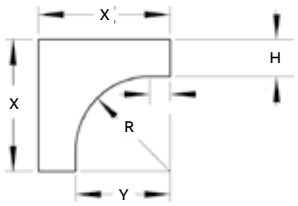
Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42 in.
- Nominal radius: 12, 24, 36, 48 in.
- Bottom styles: L– ladder, V– ventilated, S– solid
- Side rail heights: 3 in., 4 in., 5 in., 6 in., 7 in.

Cable support

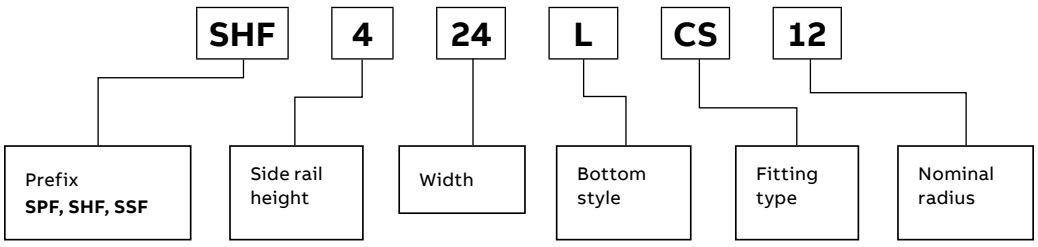


Nominal			Dimensions (in.)				
			Side rail height "H"				
Radius (in.)	Width (in.)	Cat. no.	3⅝ in.	4 in.	5 in.	6 in.	7 in.
			X				
12	6	Prefix(†)-06-(*)-CS12	15⅝	16³⁄₁₆	17³⁄₁₆	18³⁄₁₆	19³⁄₁₆
12	9	Prefix(†)-09-(*)-CS12	15⅝	16³⁄₁₆	17³⁄₁₆	18³⁄₁₆	19³⁄₁₆
12	12	Prefix(†)-12-(*)-CS12	15⅝	16³⁄₁₆	17³⁄₁₆	18³⁄₁₆	19³⁄₁₆
12	18	Prefix(†)-18-(*)-CS12	15⅝	16³⁄₁₆	17³⁄₁₆	18³⁄₁₆	19³⁄₁₆
12	24	Prefix(†)-24-(*)-CS12	15⅝	16³⁄₁₆	17³⁄₁₆	18³⁄₁₆	19³⁄₁₆
12	30	Prefix(†)-30-(*)-CS12	15⅝	16³⁄₁₆	17³⁄₁₆	18³⁄₁₆	19³⁄₁₆
12	36	Prefix(†)-36-(*)-CS12	15⅝	16³⁄₁₆	17³⁄₁₆	18³⁄₁₆	19³⁄₁₆
12	42	Prefix(†)-42-(*)-CS12	15⅝	16³⁄₁₆	17³⁄₁₆	18³⁄₁₆	19³⁄₁₆
24	6	Prefix(†)-06-(*)-CS24	27⅝	28³⁄₁₆	29³⁄₁₆	30³⁄₁₆	31³⁄₁₆
24	9	Prefix(†)-09-(*)-CS24	27⅝	28³⁄₁₆	29³⁄₁₆	30³⁄₁₆	31³⁄₁₆
24	12	Prefix(†)-12-(*)-CS24	27⅝	28³⁄₁₆	29³⁄₁₆	30³⁄₁₆	31³⁄₁₆
24	18	Prefix(†)-18-(*)-CS24	27⅝	28³⁄₁₆	29³⁄₁₆	30³⁄₁₆	31³⁄₁₆
24	24	Prefix(†)-24-(*)-CS24	27⅝	28³⁄₁₆	29³⁄₁₆	30³⁄₁₆	31³⁄₁₆
24	30	Prefix(†)-30-(*)-CS24	27⅝	28³⁄₁₆	29³⁄₁₆	30³⁄₁₆	31³⁄₁₆
24	36	Prefix(†)-36-(*)-CS24	27⅝	28³⁄₁₆	29³⁄₁₆	30³⁄₁₆	31³⁄₁₆
24	42	Prefix(†)-42-(*)-CS24	27⅝	28³⁄₁₆	29³⁄₁₆	30³⁄₁₆	31³⁄₁₆
36	6	Prefix(†)-06-(*)-CS36	39⅝	40³⁄₁₆	41³⁄₁₆	42³⁄₁₆	43³⁄₁₆
36	9	Prefix(†)-09-(*)-CS36	39⅝	40³⁄₁₆	41³⁄₁₆	42³⁄₁₆	43³⁄₁₆
36	12	Prefix(†)-12-(*)-CS36	39⅝	40³⁄₁₆	41³⁄₁₆	42³⁄₁₆	43³⁄₁₆
36	18	Prefix(†)-18-(*)-CS36	39⅝	40³⁄₁₆	41³⁄₁₆	42³⁄₁₆	43³⁄₁₆
36	24	Prefix(†)-24-(*)-CS36	39⅝	40³⁄₁₆	41³⁄₁₆	42³⁄₁₆	43³⁄₁₆
36	30	Prefix(†)-30-(*)-CS36	39⅝	40³⁄₁₆	41³⁄₁₆	42³⁄₁₆	43³⁄₁₆
36	36	Prefix(†)-36-(*)-CS36	39⅝	40³⁄₁₆	41³⁄₁₆	42³⁄₁₆	43³⁄₁₆
36	42	Prefix(†)-42-(*)-CS36	39⅝	40³⁄₁₆	41³⁄₁₆	42³⁄₁₆	43³⁄₁₆
48	6	Prefix(†)-06-(*)-CS48	51⅝	52³⁄₁₆	53³⁄₁₆	54³⁄₁₆	55³⁄₁₆
48	9	Prefix(†)-09-(*)-CS48	51⅝	52³⁄₁₆	53³⁄₁₆	54³⁄₁₆	55³⁄₁₆
48	12	Prefix(†)-12-(*)-CS48	51⅝	52³⁄₁₆	53³⁄₁₆	54³⁄₁₆	55³⁄₁₆
48	18	Prefix(†)-18-(*)-CS48	51⅝	52³⁄₁₆	53³⁄₁₆	54³⁄₁₆	55³⁄₁₆
48	24	Prefix(†)-24-(*)-CS48	51⅝	52³⁄₁₆	53³⁄₁₆	54³⁄₁₆	55³⁄₁₆
48	30	Prefix(†)-30-(*)-CS48	51⅝	52³⁄₁₆	53³⁄₁₆	54³⁄₁₆	55³⁄₁₆
48	36	Prefix(†)-36-(*)-CS48	51⅝	52³⁄₁₆	53³⁄₁₆	54³⁄₁₆	55³⁄₁₆
48	42	Prefix(†)-42-(*)-CS48	51⅝	52³⁄₁₆	53³⁄₁₆	54³⁄₁₆	55³⁄₁₆

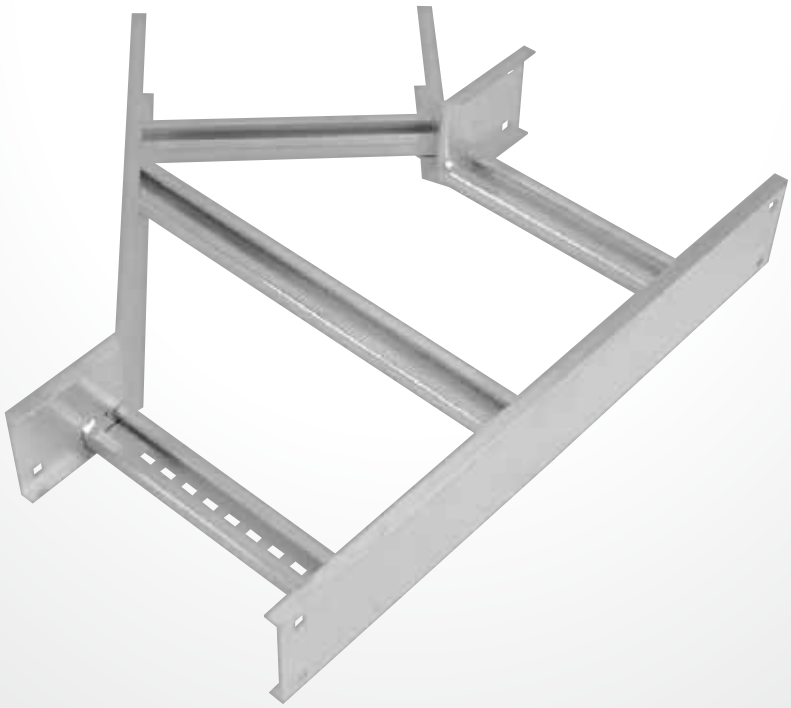


(†) Insert side rail height. (*) Insert bottom style to complete cat. no. Includes 1 pair of splice plates with hardware.

Part numbering system







Steel fittings
Helix cable tray fitting

01 Right-turn assembly
02 Left-turn assembly

The Helix cable tray fitting. Efficiency is in its DNA

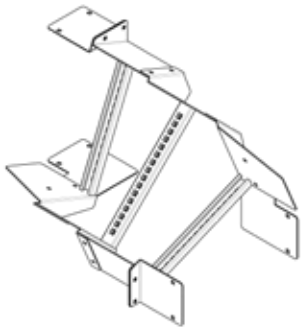
Go from horizontal to vertical, maximum cable protection, minimum space.
Making transitions from horizontal to vertical cable tray runs has never been easier or more efficient. The latest evolution in cable tray fittings, the Helix fitting assembly was developed specifically for use in confined areas. It allows installers to transition from horizontal to vertical surfaces in less time, using significantly less space.

- Enables installation close to walls and other surfaces, eliminating need for distance
- Provides enhanced cable protection in confined spaces
- Secures cables within fitting for clean, organized cable runs

Helix cable tray fitting

Cat. no.	Material	Side rail (in.)	Width (in.)	Direction
SPF612LHVR	Pregalvanized steel	6	12	Right turn
SPF612LHVL	Pregalvanized steel	6	12	Left turn
SPF624LHVR	Pregalvanized steel	6	24	Right turn
SPF624LHVL	Pregalvanized steel	6	24	Left turn
SSF612LHVR	Stainless steel	6	12	Right turn
SSF612LHVL	Stainless steel	6	12	Left turn
SSF624LHVR	Stainless steel	6	24	Right turn
SSF624LHVL	Stainless steel	6	24	Left turn

Supports should be positioned within 24" (610 mm) of each Helix fitting extremity.



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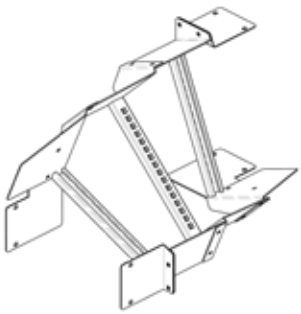


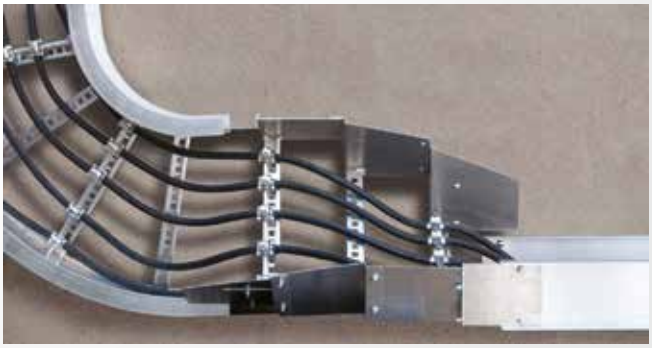
02











Steel
Tray covers

— 01 Solid flanged
— 02 Solid non-flanged
— 3 Ventilated flanged
— 4 Peaked flanged

Tray covers
Tray covers are available for all classes of tray. They should be installed where falling objects may damage cables or where a vertical tray run is accessible by pedestrian or vehicular traffic.

Outside cable tray runs should be covered with a peaked flanged cover to protect cable from the elements and excess build up of snow and ice.

Solid covers
These covers provide maximum mechanical protection for cables with limited heat build up. Solid covers are available with or without flange. Flanged covers have ½ in. flange.

Ventilated flanged covers
This design offers excellent mechanical protection while allowing heat produced by cables to dissipate.

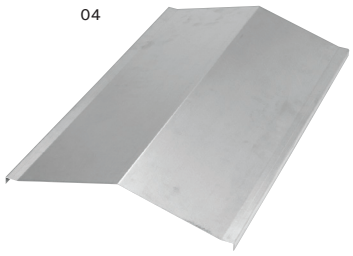
Peaked flanged covers
Peaked covers offer mechanical protection plus prevent accumulation of liquid on the cover. Peaked covers have 15° rise at the peak.

Cover mounting hardware must be ordered separately.

— 01


— 02


— 03


— 04


Straight cover number selection

(SPW | **12)** - **SNC** - **3**

Material prefix	
Pregalvanized	**SPW**
Hot-dipped galvanized*	**SHW**
Stainless steel 316	**SSW**

Width (in.)	
6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

Type	
Solid non-flanged cover	**SNC**
Solid flanged cover	**SFC**
Ventilated flanged cover	**VFC**
Peaked flanged cover	**PFC**
Peaked ventilated flanged cover	**PVC**

Length	
72 in.	**72**
3 m	**3**
120 in.	**120**
144 in.**	**144**

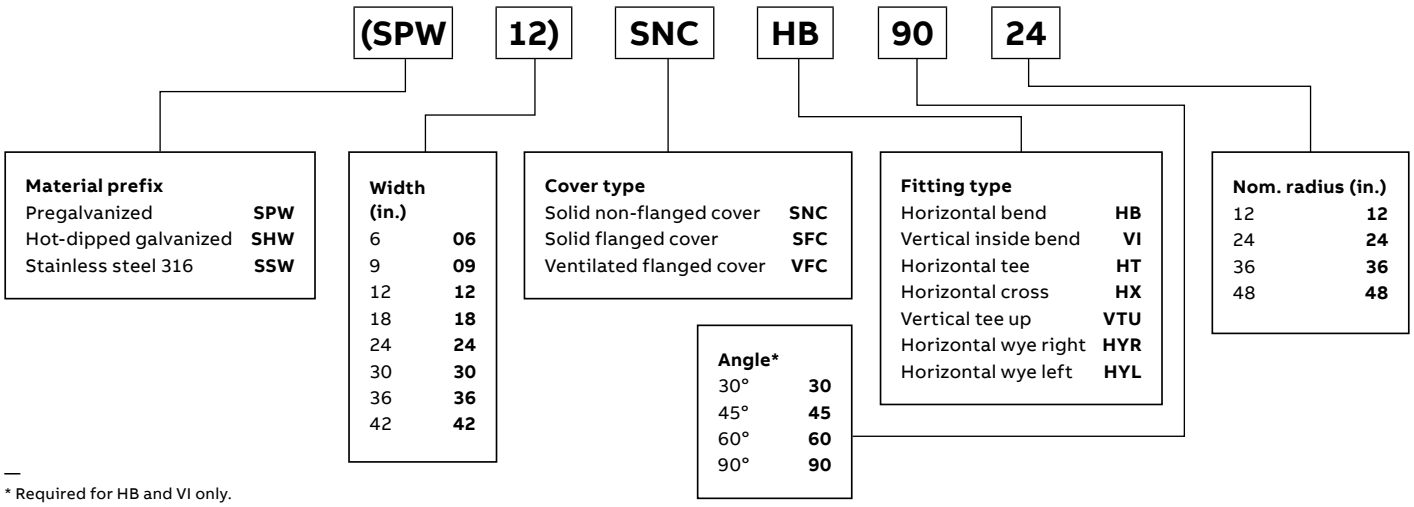
** Length 144 in. not available for VFC and PVC. Some restrictions apply on other types, validate with your CSR.

— * Hot-dipped covers (SHW) only available in 60in, 72in and 1,500mm

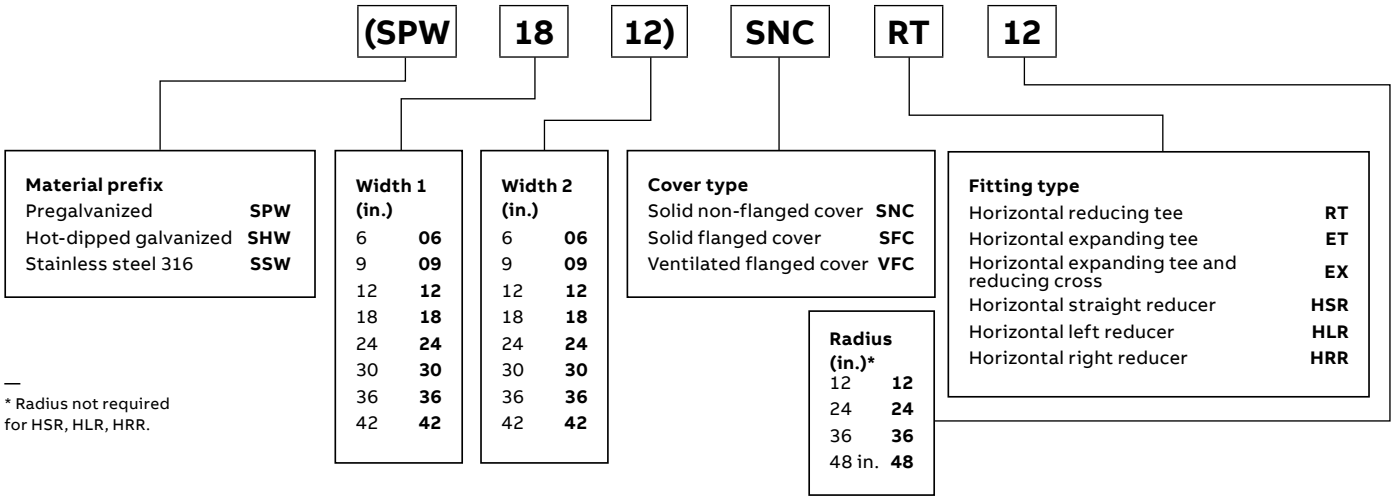
Steel

Fitting covers

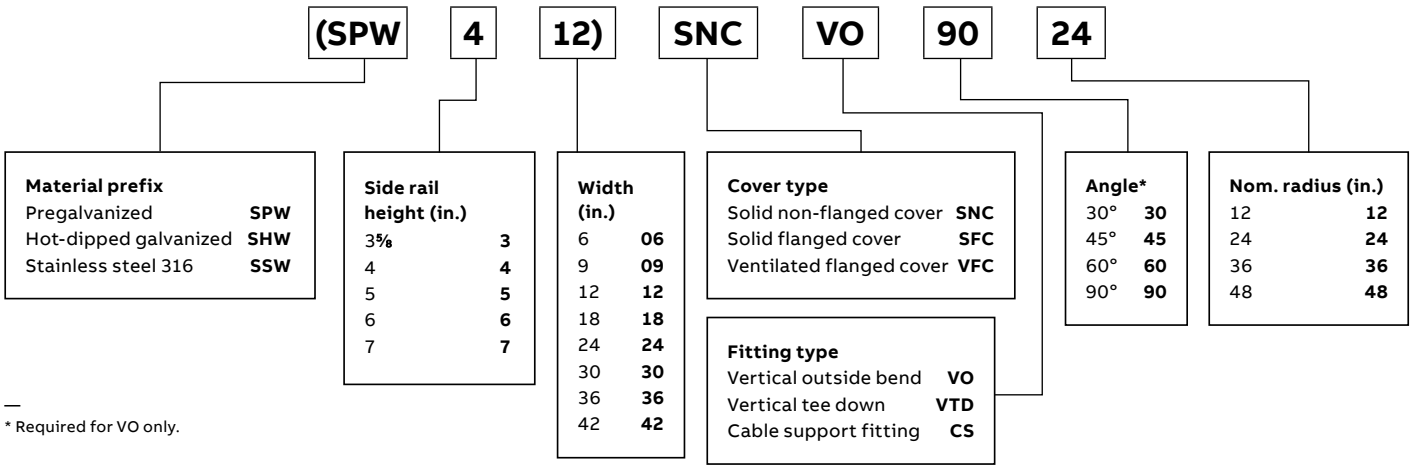
Fitting cover number selection



—
* Required for HB and VI only.



—
* Radius not required for HSR, HLR, HRR.

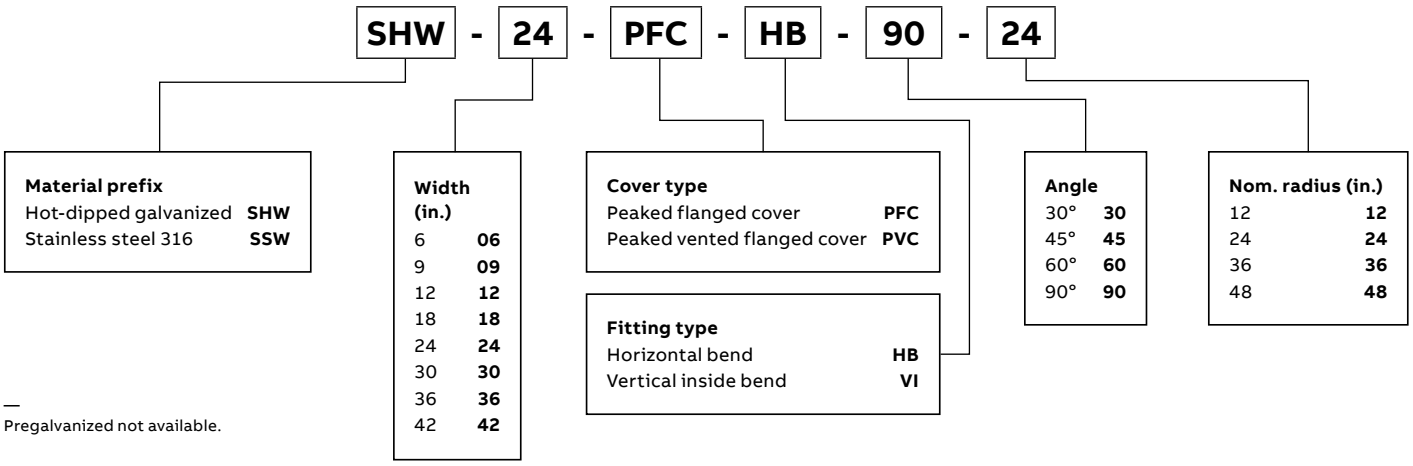


—
* Required for VO only.

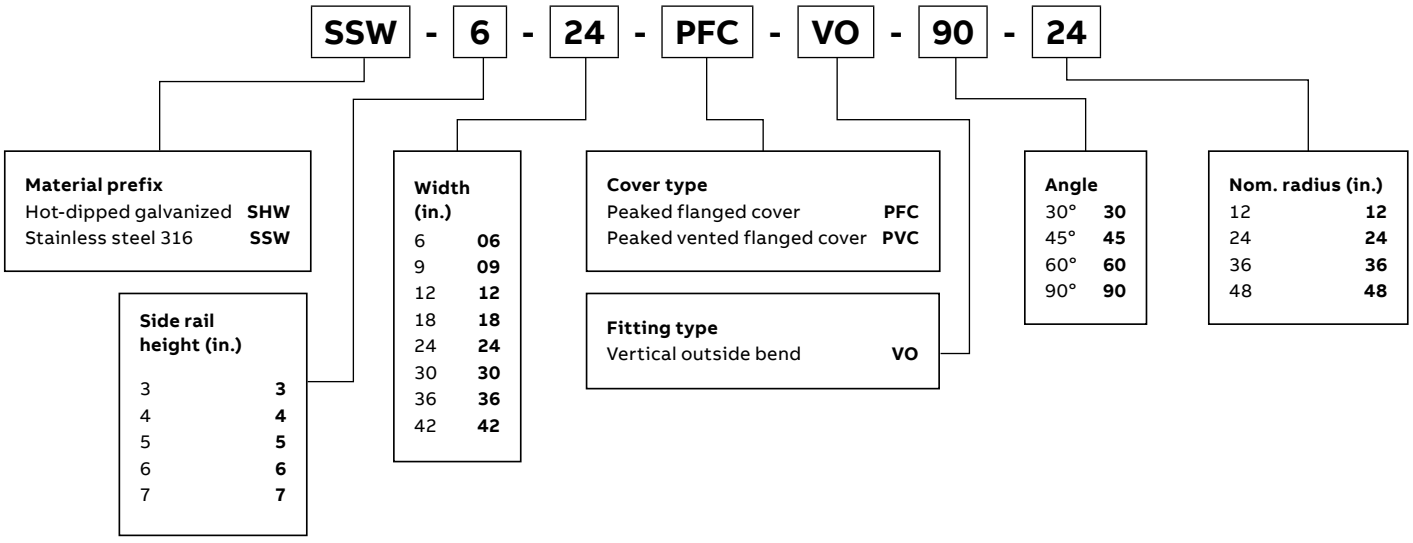
Steel

Peaked covers

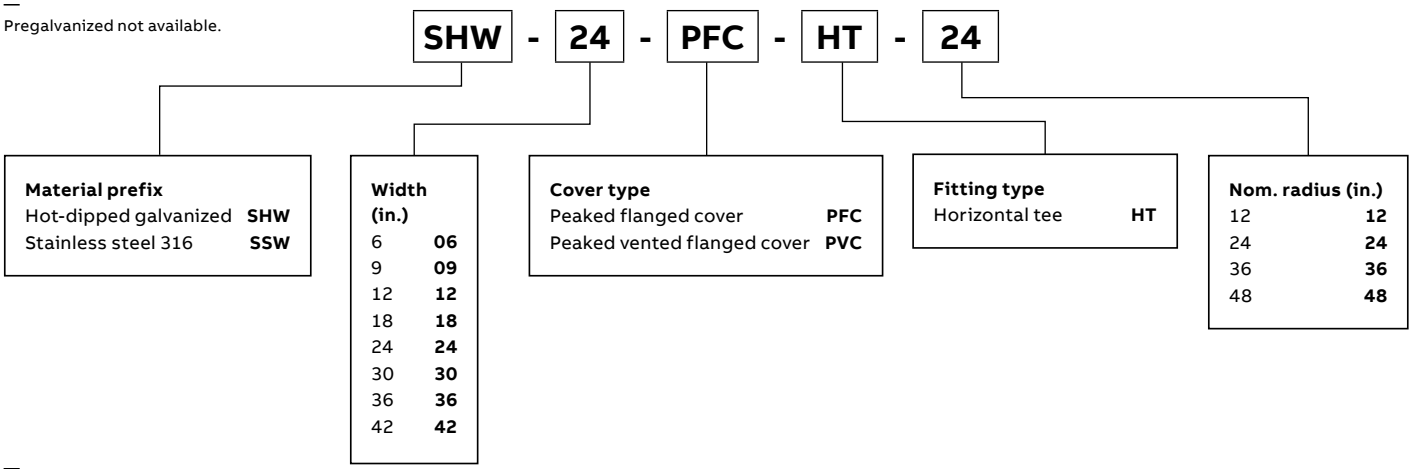
Peaked covers number selection



—
Pregalvanized not available.



—
Pregalvanized not available.



—
Pregalvanized not available.

Steel

Peaked covers

Horizontal bend/vertical inside bend peaked cover number selection



SHW - 12 - PFC - HB - 90 - 24

Material prefix

Hot-dipped galvanized	**SHW**
Stainless steel 316	**SSW**

Width (in.)

6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

Cover type

PFC peaked flanged cover	**PFC**
PVC peaked ventilated flanged cover	**PVC**

Fitting type

Horizontal bend	**HB**
Vertical inside bend	**VI**

Angle

30°	**30**
45°	**45**
60°	**60**
90°	**90**

Nom. radius (in.)

12	**12**
24	**24**
36	**36**
48	**48**

— Pregalvanized not available.

Vertical outside bend peaked cover number selection



SHW - 4 - 12 - PFC - VO - 90 24

Material prefix

Hot-dipped galvanized	**SHW**
Stainless steel 316	**SSW**

Side rail height (in.)

3	**3**
4	**4**
5	**5**
6	**6**
7	**7**

Width (in.)

6	**06**
9	**09**
12	**12**
18	**18**
24	**24**
30	**30**
36	**36**
42	**42**

Cover type

PFC peaked flanged cover	**PFC**
PVC peaked ventilated flanged cover	**PVC**

Fitting type

Vertical outside bend	**VO**

Angle

30°	**30**
45°	**45**
60°	**60**
90°	**90**

Radius (in.)

12	**12**
24	**24**
36	**36**
48	**48**

— Pregalvanized not available.

Horizontal tee peaked cover number selection



SHW - 12 - PFC - HT - 24

Material prefix

Hot-dipped galvanized	**SHW**
Stainless steel 316	**SSW**

Width (in.)

6 in.	**06**
9 in.	**09**
12 in.	**12**
18 in.	**18**
24 in.	**24**
30 in.	**30**
36 in.	**36**
42 in.	**42**

Cover type

PFC peaked flanged cover	**PFC**
PVC peaked ventilated flanged cover	**PVC**

Fitting type

Horizontal tee	**HT**

Radius (in.)

12	**12**
24	**24**
36	**36**
48	**48**

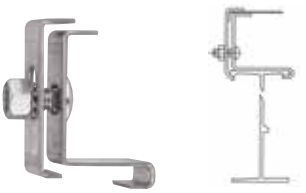
— Pregalvanized not available.

Steel
Accessories

Quantity of standard cover clamps required	
Straight section (6 ft.)	4 pcs.
Straight section (12 ft./ 3 m)	6 pcs.
Horizontal and vertical bends	4 pcs.
Tees	6 pcs.
Crosses	8 pcs.

When using the heavy-duty cover clamp, only half the quantity of pieces are required.

Raised cover clamp



Cat. no.	Material prefix	Cover offset (in.)*
SPW(*)RCC†	SPW, SHW, SSW	1
	SPW, SSW	2

Designed to raise cover above tray for added ventilation.
(*) Insert cover offset.
† For indoor applications only.

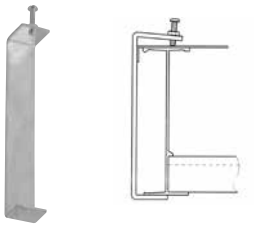
Peaked end cap



Cat. no.	Material prefix	Width (in.)
SPW(*)PEC	SPW, SHW, SSW	06
SHW(*)PEC	SPW, SHW, SSW	09
SSW(*)PEC	SPW, SHW, SSW	12
	SPW, SHW, SSW	18
	SPW, SHW, SSW	24
	SPW, SHW, SSW	30
	SPW, SHW, SSW	36
	SPW, SHW, SSW	42

Used for transition between peaked covers to straight covers.
(*) Insert width

Cover clamp



Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-3-SCC	SPW, SHW, SSW	3
(Prefix)-4-SCC	SPW, SHW, SSW	4
(Prefix)-5-SCC	SPW, SHW, SSW	5
(Prefix)-6-SCC	SPW, SHW, SSW	6
(Prefix)-7-SCC	SPW, SHW, SSW	7

Rigid indoor cover clamp for flat and flanged covers.

Heavy-duty cover clamp

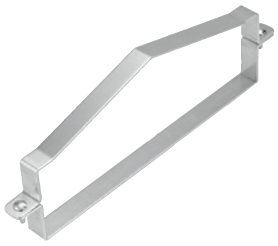
- Side rail heights: 3, 4, 5, 6, 7 in.
- Tray widths: 06, 09, 12, 18, 24, 30, 36, 42 in.

	Cat. no.	Material prefix	Side rail height (in.)	Tray width (in.)
	(Prefix)-(*)-(**)-HCC	SPW, SHW, SSW	3 to 7	06 to 42

Wrap-around design offers added protection for rugged applications and outdoor conditions. Hardware included.
(*) Insert side rail height
(**) Insert tray width

Heavy-duty peaked cover clamp

- Side rail heights: 3, 4, 5, 6, 7 in.
- Tray widths: 06, 09, 12, 18, 24, 30, 36, 42 in.

	Cat. no.	Material prefix	Side rail height (in.)	Tray width (in.)
	(Prefix)-(*)-(**)-HPC	SPW, SHW, SSW	3 to 7	06 to 42

Wrap-around design formed to fit peaked cover for outdoor applications. Hardware included.
(*) Insert side rail height
(**) Insert tray width

Cover joint strip

	Cat. no.	Material	Tray width (in.)
	ABW-(*)-PCS	Plastic	06
		Plastic	09
		Plastic	12
		Plastic	18
		Plastic	24
		Plastic	30
		Plastic	36
		Plastic	42

Strip used for joining covers end to end.
(*) Insert tray width

Steel splice plates

Splice, expansion and transition plates



- Packaged in pairs with zinc-plated hardware
- Kit contents: 8 bolts, 8 serrated flange nuts ⅜ in. diameter
- Provided as standard with each straight and/or fitting

Splice plate

Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-3-SSP	SPW, SHW, SSW	3
(Prefix)-4-SSP	SPW, SHW, SSW	4
(Prefix)-5-SSP	SPW, SHW, SSW	5
(Prefix)-6-SSP	SPW, SHW, SSW	6
(Prefix)-7-SSP	SPW, SHW, SSW	7



- Allows for a 1 in. expansion or contraction of tray s ystem
- Packaged in pairs with hardware
- Kit contents: 8 bolts, 4 stop nuts, 4 serrated flange nuts ⅜ in. diameter

Expansion splice plate

Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-3-ESP	SPW, SHW, SSW	3
(Prefix)-4-ESP	SPW, SHW, SSW	4
(Prefix)-5-ESP	SPW, SHW, SSW	5
(Prefix)-6-ESP	SPW, SHW, SSW	6
(Prefix)-7-ESP	SPW, SHW, SSW	7



- Designed to make the transition from aluminum to steel cable tray
- Works for all 6 in. side rails

Transition splice plate

Cat. no.	Material	Side rail height (in.)
XNM-XP400-(*)-SS6	Polyester/fiberglass	6

Each pair of plates:
8 x carriage bolt (⅜ x 1 in.) SS316
8 x ⅜ in. serrated flange nut SS316

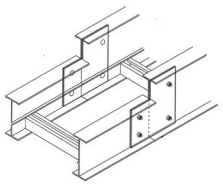
Steel splice plates

Step-down splice plate and flexible coupler

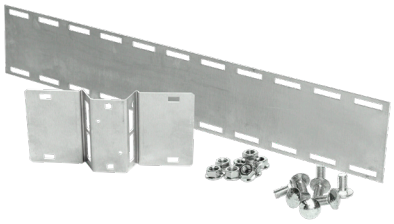


- Connects side rails of different heights
- Hardware included
- Kit contents: 8 bolts, 8 serrated flange nuts ⅜ in. diameter

Step-down splice plate

	Cat. no.	Material prefix	Side rail height (in.)
	(Prefix)-(*)-(**)-SDS	SPW, SHW, SSW	3 to 7

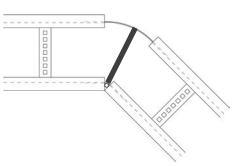
(*) Insert side rail height 1.
(**) Insert side rail height 2.
NOTE: Side rail height 1 is greater than side rail height 2.
Step down slice plate not required to go from side rails 7 inches to 6 inches and from 5 inches to 4 inches.



Flexible coupler

Cat. no.	Material prefix	Side rail height (in.)	Tray width (in.)
(Prefix)-(*)06HBP	SPW, SHW, SSW	3 to 7	06
(Prefix)-(*)09HBP	SPW, SHW, SSW	3 to 7	09
(Prefix)-(*)12HBP	SPW, SHW, SSW	3 to 7	12
(Prefix)-(*)18HBP(**)	SPW, SHW, SSW	3 to 7	18
(Prefix)-(*)24HBP	SPW, SHW, SSW	3 to 7	24
(Prefix)-(*)30HBP	SPW, SHW, SSW	3 to 7	30
(Prefix)-(*)36HBP	SPW, SHW, SSW	3 to 7	36

Furnished in pairs with hardware.
(*) Insert side rail height.
(**) Exception only for SHW finish in 18'' width product is SHW618HBPC, a "C"' must be added at the end of the product code.
Side rail 6 inches only.





Optional rung information (provides additional cable support)

Cat. no.	Material prefix	Tray width (in.)
(Prefix)-R(*)HBP	SPW, SHW, SSW	06
	SPW, SHW, SSW	09
	SPW, SHW, SSW	12
	SPW, SHW, SSW	18
	SPW, SHW, SSW	24
	SPW, SHW, SSW	30
	SPW, SHW, SSW	36

* Insert tray width

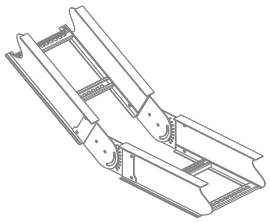
Steel splice plates

Vertical adjustable plates, branch pivot connectors and box-to-tray plates



- Hinged vertical plates provide maximum flexibility for changes in elevation
- Packaged in pairs with hardware

Vertical adjustable plate



Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-3-VSP	SPW, SHW, SSW	3
(Prefix)-4-VSP	SPW, SHW, SSW	4
(Prefix)-5-VSP	SPW, SHW, SSW	5
(Prefix)-6-VSP	SPW, SHW, SSW	6
(Prefix)-7-VSP	SPW, SHW, SSW	7

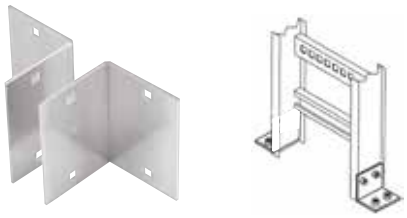
Branch pivot connectors



Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-3-BPC	SPW, SHW, SSW	3
(Prefix)-4-BPC	SPW, SHW, SSW	4
(Prefix)-5-BPC	SPW, SHW, SSW	5
(Prefix)-6-BPC	SPW, SHW, SSW	6
(Prefix)-7-BPC	SPW, SHW, SSW	7

Allows cables to run from one tray level to another.

Box-to-tray plates



Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-3-BSP	SPW, SHW, SSW	3
(Prefix)-4-BSP	SPW, SHW, SSW	4
(Prefix)-5-BSP	SPW, SHW, SSW	5
(Prefix)-6-BSP	SPW, SHW, SSW	6
(Prefix)-7-BSP	SPW, SHW, SSW	7

Designed to secure tray to electrical panels or boxes, walls or end supports. Packaged in pairs with hardware.

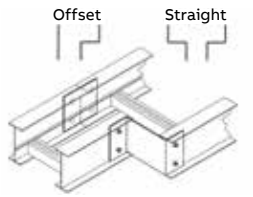
Steel splice plates

Closure end plate and reducing splice plate



- Used in pairs to provide a straight reduction or used with a standard splice plate for an offset reduction
- One per package with hardware

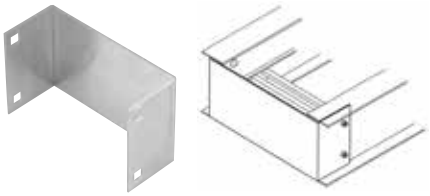
Reducing splice plate

	Cat. no.	Material prefix	Side rail height (in.)
	(Prefix)-3-(*)RSP	SPW, SHW, SSW	3
	(Prefix)-4-(*)RSP	SPW, SHW, SSW	4
	(Prefix)-5-(*)RSP	SPW, SHW, SSW	5
	(Prefix)-6-(*)RSP	SPW, SHW, SSW	6
	(Prefix)-7-(*)RSP	SPW, SHW, SSW	7

* For offset reduction: Insert width to be reduced. For straight reduction: Insert ½ width to be reduced (2 required).
Example: SPW-503-RSP = 3 in. offset reducer

- Side rail heights: 3, 4, 5, 6, 7 in.
- Tray widths: 06, 09, 12, 18, 24, 30, 36, 42 in.

Closure end plate

	Cat. no.	Material prefix	Side rail height (in.)	Tray width (in.)
	(Prefix)-(*)-(**)-CEP	SPW, SHW, SSW	3 to 7	06 to 42

Provides closure for any tray end. Hardware included.
(*) Side rail height
(**) Insert tray width

Steel splice plates

Super-Duty Splice Plate



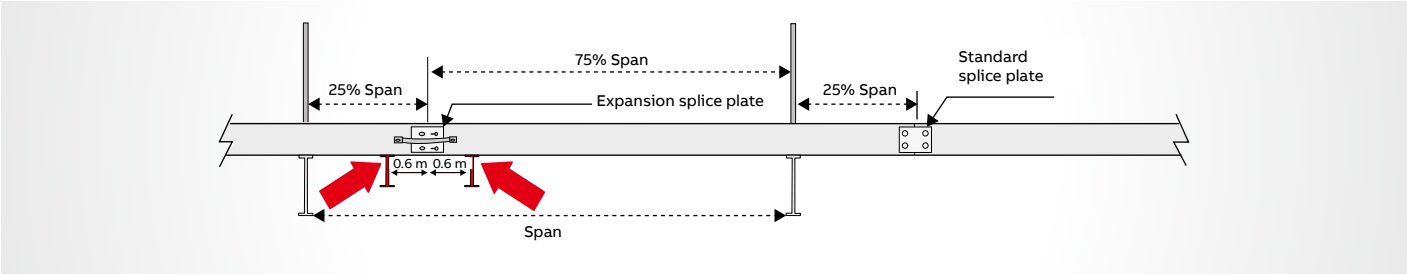
- High-strength design enables reduction of supports recommended for NEMA standard installations at the expansion joint, significantly reducing material and labour costs
- Unique reinforced design eliminates the need to drill and install additional hardware on the flange, saving installation time

Super-Duty Splice Plate

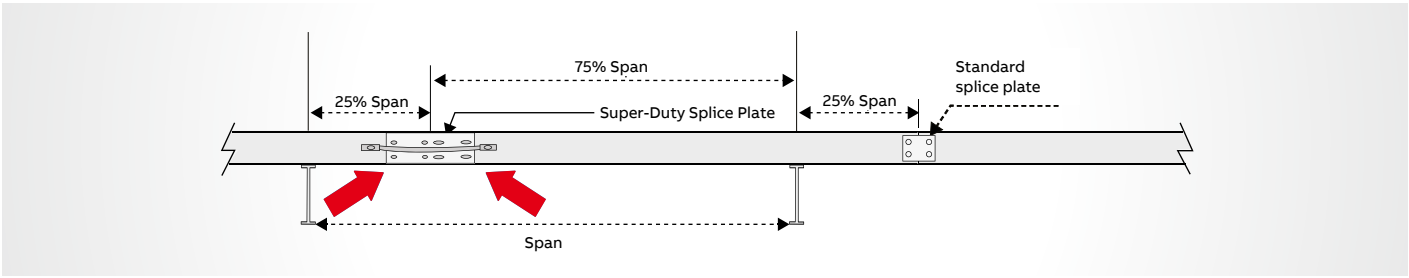
Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-4-SDP	SPW, SHW, SSW	4
(Prefix)-5-SDP	SPW, SHW, SSW	5
(Prefix)-6-SDP	SPW, SHW, SSW	6
(Prefix)-7-SDP	SPW, SHW, SSW	7

Comes complete with 16 bolts, 8 stop nuts, 8 nuts, 8 nylon, washers, ⅜ in. diameter required, for either expansion or mid-span splicing.

01



02



01 Additional supports per NEMA standard installation

02 No additional supports needed with Super-Duty Splice Plate

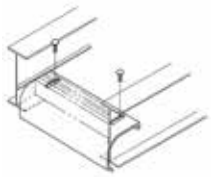
Steel cable protection

Drop out and wall penetration sleeve



- Designed to provide a smooth radius surface at any position on the tray or trough bottom
- Drop outs are easily attached using hardware provided
- Standard radius = 4 in.

Drop out

	Cat. no.	Material prefix	Tray width (in.)
	(Prefix)-(*)-DO(S)	SPW, SHW, SSW	06
		SPW, SHW, SSW	09
		SPW, SHW, SSW	12
		SPW, SHW, SSW	18
		SPW, SHW, SSW	24
		SPW, SHW, SSW	30
		SPW, SHW, SSW	36
		SPW, SHW, SSW	42

(*) Insert tray width
(S) Solid tray only



Sold with cover

- Designed to pass through walls and fire walls
- Hardware included
- Note: not fire rated
- Fire stop not included
- Side rail heights: 3, 4, 5, 6, 7 in.
- Tray widths: 06, 09, 12, 18, 24, 30, 36, 42 in.

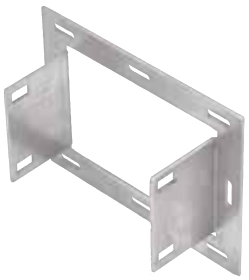
Wall penetration sleeve

Cat. no.	Material prefix	Side rail height (in.)	Tray width (in.)
(Prefix)-(*)-(**)-WPS	SPW, SHW, SSW	3 to 7	06 to 42

(*) Insert side rail height.
(**) Insert tray width

Steel cable protection

Frame-type tray-to-box plate and nylon expansion pad



- Designed to secure tray to electrical enclosures and panels
- Hardware included
- Side rail heights: 3, 4, 5, 6, 7 in.
- Tray widths: 06, 09, 12, 18, 24, 30, 36, 42 in.

Frame-type tray-to-box plate

Cat. no.	Material prefix	Side rail height (in.)	Tray width (in.)
(Prefix)-(*)-(**)-FBP	SPW, SHW, SSW	3 to 7	06 to 42

(*) Insert side rail height.
(**) Insert tray width

Nylon expansion pad

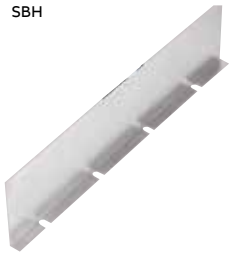
	Cat. no.	Material
	ABW-NSP	Natural nylon

Allows for thermal expansion and contraction of cable trays over supports.

Steel barrier strips

Barrier strips and vertical bend barriers

SBH



SB



- Barrier strips provide a method of separating cables in tray and trough systems
- Easily installed using supplied hardware or barrier strip clamps (sold separately)
- 72 in. barriers are flexible for use with horizontal fittings

Barrier strips

Cat. no.	Material prefix	Designed for side rail height (in.)	Length
(Prefix)-3-SBH-72	SPW, SHW, SSW	3	72 in.
(Prefix)-4-SBH-72	SPW, SHW, SSW	4	72 in.
(Prefix)-5-SBH-72	SPW, SHW, SSW	5	72 in.
(Prefix)-6-SBH-72	SPW, SHW, SSW	6	72 in.
(Prefix)-7-SBH-72	SPW, SHW, SSW	7	72 in.
(Prefix)-3-SB-(*)	SPW, SHW, SSW	3	144 in. 3 m
(Prefix)-4-SB-(*)	SPW, SHW, SSW	4	144 in. 3 m
(Prefix)-5-SB-(*)	SPW, SHW, SSW	5	144 in. 3 m
(Prefix)-6-SB-(*)	SPW, SHW, SSW	6	144 in. 3 m
(Prefix)-7-SB-(*)	SPW, SHW, SSW	7	144 in. 3 m

Barriers provided with self drilling-tapping screw CAT. NO. SPW10SCR 72 in. length: 3 screw 3 m length: 5 screw 144 in. length: 6 screw. SHW barriers are only available in 72 in. or 1,500 mm.
(*) Insert length.



- Preformed to fit all standard steel vertical bends
- Provided with hardware

Inside/outside vertical bend barriers

Inside bend cat. no.	Outside bend cat. no.	Material prefix	Designed for side rail height (in.)
(Prefix)-3-VIB-(*)-(+)	(Prefix)-3-VOB-(*)-(+)	SPW, SHW, SSW	3
(Prefix)-4-VIB-(*)-(+)	(Prefix)-4-VOB-(*)-(+)	SPW, SHW, SSW	4
(Prefix)-5-VIB-(*)-(+)	(Prefix)-5-VOB-(*)-(+)	SPW, SHW, SSW	5
(Prefix)-6-VIB-(*)-(+)	(Prefix)-6-VOB-(*)-(+)	SPW, SHW, SSW	6
(Prefix)-7-VIB-(*)-(+)	(Prefix)-7-VOB-(*)-(+)	SPW, SHW, SSW	7

(*) Insert bend degree
(+) Insert bend radius.

Steel clamps and hardware

Barrier strip clamp and strip splice



- Barrier strip clamps mount barrier strips to ladder rungs and ventilated trough bottoms
- Complete mounting hardware supplied

Barrier strip clamp

	Cat. no.	Material prefix
	(Prefix)-BSC	SPW
		SSW

Barrier strip splice

	Cat. no.
	ABW-BSS

Alignment splice for joining connecting barrier strips.

Steel clamps and hardware

Cable tray combo clamp

Cable tray combo clamp



Cat. no.	Material	Hardware size (in.)
SPWCHGC	Pregalvanized steel	⅜
SHWCHGC	Hot-dip galvanized steel	⅜
SSWCHGC	316 stainless	⅜
SPWCHGC-HDW	Pregalvanized steel	⅜
SHWCHGC-HDW	Hot-dip galvanized steel	⅜
SSWCHGC-HDW	316 stainless	⅜

*Hardware supplied: 1 bolt and 1 springless strut nut ⅜ in. diameter.



Clamp position on cable tray



Guide position on cable tray

Cable tray orientation	Bolt torque	Design load
Vertical/running vertical	17 lb-ft; 23 Nm	300 lbs/pair
Vertical/running horizontal	17 lb-ft; 23 Nm	700 lbs/pair
Reversed	17 lb-ft; 23 Nm	400 lbs/pair

Steel tray hardware



Cat. no.	Material	Description
SPW-1/4-CB	Zinc-plated steel	¼ in. carriage bolt
SPW-3/8-CB	Zinc-plated steel	⅜ in. carriage bolt
SPW-1/4-HN	Zinc-plated steel	¼ in. serrated flange hex nut
SPW-3/8-HN	Zinc-plated steel	⅜ in. hex nut
SPW3/8HWK*	Zinc-plated steel	Hardware kit
SPW-3/8HXHWK**	Zinc-plated steel	Hardware kit ⅜ in. for large radius crosses
SSW-3/8-CB	316 stainless	⅜ in. carriage bolt
SSW-3/8-HN	316 stainless	⅜ in. hex nut
SSW38HWK*	316 stainless	316 stainless steel hardware kit
SSW-3/8HXHWK**	316 stainless	Hardware kit ⅜ in. for large radius crosses

Square shoulder self-positioning carriage bolt.
* Contains 8 nuts and 8 bolts.
**Contains 6 bolts, 6 nuts and 6 washers.

Steel clamps and hardware

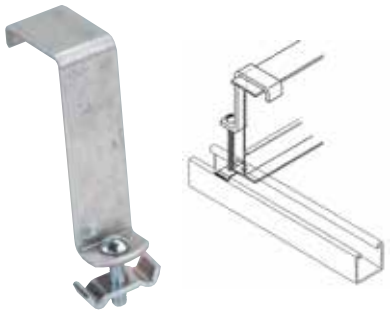
Tapping screw, hold-down clamps and conduit clamp

Self-drilling tapping screw



Cat. no.	Material	Description
SPW-10-SCR	Zinc-plated steel	Self-drilling tapping screw
SSW-10-SCR	Stainless steel	Self-drilling tapping screw

Hold-down clamp



Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-3-HDC	SPW, SHW, SSW	3
(Prefix)-4-HDC	SPW, SHW, SSW	4
(Prefix)-5-HDC	SPW, SHW, SSW	5
(Prefix)-6-HDC	SPW, SHW, SSW	6
(Prefix)-7-HDC	SPW, SHW, SSW	7

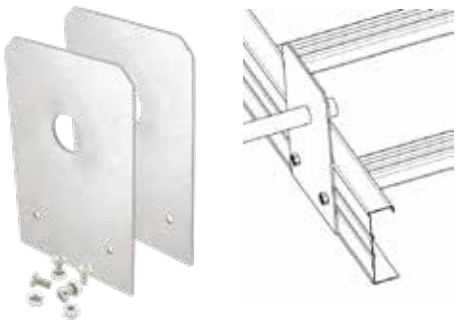
Hardware included. Kit contains 1 bolt and 1 channel nut.

Hold-down clamp



Cat. no.	Type	Material	Design load
SPWHDCS	Single	Pregalvanized	800 lb/pair
SHWHDCS	Single	Hot-dipped galvanized	800 lb/pair
SSWHDCS	Single	Stainless steel 316	800 lb/pair
SPWHDCD	Double	Pregalvanized	1,500 lb/pair
SHWHDCD	Double	Hot-dipped galvanized	1,500 lb/pair
SSWHDCD	Double	Stainless steel 316	1,500 lb/pair

Conduit clamp



Cat. no.	Size (in.)	Material
PU100CC	1	Pregalvanized
PU125CC	1¼	Pregalvanized
PU150CC	1½	Pregalvanized
PU200CC	2	Pregalvanized
PU250CC	2½	Pregalvanized
PU300CC	3	Pregalvanized
PU400CC	4	Pregalvanized

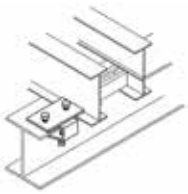
Steel clamps and hardware

Cable tray guide, clamp and vertical tray hanger



- Expansion guide for single or double runs of cable tray
- No need to field drill channel or I-beam

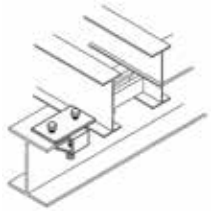
Cable tray guide



Cat. no.	Material
SPW-CTG	Zinc-plated steel
SHW-CTG	Hot-dipped galvanized steel
SSW-CTG	Stainless steel



Cable tray clamp



Cat. no.	Material
SPW-CTC	Zinc-plated steel
SHW-CTC	Hot-dipped galvanized steel
SSW-CTC	Stainless steel

Vertical tray hanger





Cat. no.	Material prefix	Side rail height (in.)
(Prefix)-(*)-VTH	SPW, SHW, SSW	3
	SPW, SHW, SSW	4
	SPW, SHW, SSW	5
	SPW, SHW, SSW	6
	SPW, SHW	7

(*) Insert side rail height