

Description:

Nav-Tech trough wireways provide an efficient solution for routing and protecting electrical conductors in both indoor and outdoor applications. Available in multiple NEMA ratings and configurations, these wireways combine rugged construction, flexible design options, and compliance with UL and NEMA standards to support a wide range of installation needs.

Contents:

Trough Wireway Indoor
Trough Wireway Raintight
Weatherproof Wireway Trough
Wireway Fittings

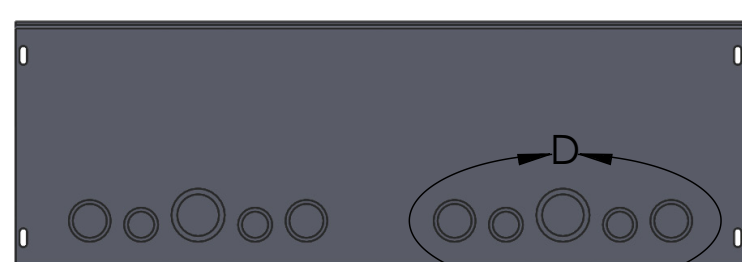


NOTES:

1. TROUGH AND COVER CONSTRUCTION- GALV SHEET STEEL.
2. FINISH: POWDER COAT GRAY ENAMEL.
3. STANDARD 0.75" LIP ON TOP LEDGE OF TROUGH OPENING.
4. 1 SET OF KNOCKOUTS PER FT OF TROUGH.
5. ANTI CHAFING EMBOSSMENTS FORMED INTO TROUGH SURROUNDING SCREW HOLES.
6. NKO TROUGH HAS SAME DIMENSIONS WITH KO'S OMITTED.



FRONT VIEW



SIDE VIEW

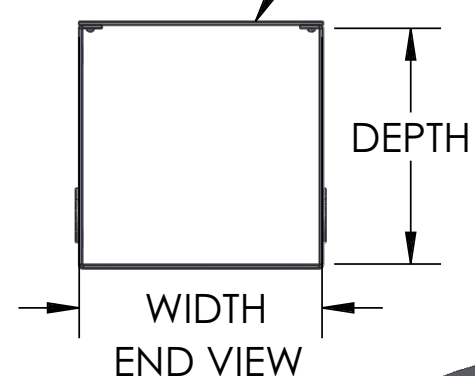


FRONT VIEW
MOUNT HOLES 4X
COUPLING SLOTS ON 3 SIDES OF TROUGH

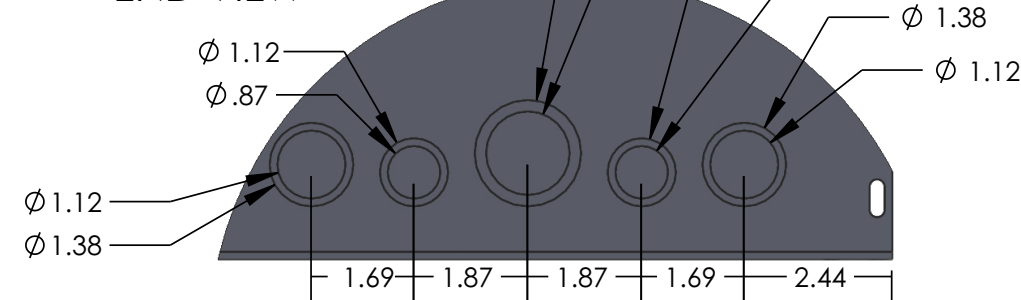
TEARDROP SLOTS FOR EASY COVER INSTALL OR REMOVAL

ANTI CHAFING EMBOSSMENTS

SCREW FASTENED COVER 10-32 SCREWS



WIDTH
END VIEW



DETAIL D
SCALE 1 : 4



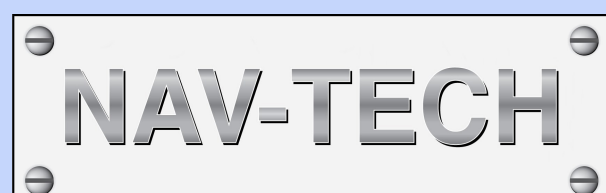
Features

- Wireway and cover are manufactured from 16 gauge steel.
- Available with or without knockouts. For no knockouts, refer to suffix -NK in catalog number.
- Available with or without paint. For no paint, refer to suffix -NP in catalog number. Non painted trough is non stock.
- Covers incorporate teardrop slots for easy installation or removal and are attached with plated steel screws.
- Available in six standard sizes: 4 x 4, 6 x 6, 8 x 8, 10 x 10 and 12 x 12. Lengths between 1ft and 5ft. Custom sizes available upon request.
- Wide range of fittings allows for change of direction, junctions, terminations as well as transition from competitors products.
- ANSI 61 gray polyester powder coat finish.
- Available accessories shown on trough accessories page.

Application

- Designed to allow long interrupted runs of electrical wiring for indoor applications where moisture and dust are not a problem.

- NEMA Type 1
- UL 870 Type 1
- cUL Type 1 (equivalent to CSA)



*Stainless steel or aluminum available upon request
*Additional sizes available upon request

Catalog Number	H x W x D (Inches)	UPC Codes
T441	4x4x12	616983211625
T442	4x4x24	616983211632
T443	4x4x36	616983211649
T444	4x4x48	616983211656
T445	4x4x60	616983211663
T661	6x6x12	616983211731
T662	6x6x24	616983211748
T663	6x6x36	616983211755
T664	6x6x48	616983211762
T665	6x6x60	616983211779
T881	8x8x12	616983211847
T882	8x8x24	616983211854
T883	8x8x36	616983211861
T884	8x8x48	616983211878
T885	8x8x60	616983211885
T10101	10x10x12	616983211304
T10102	10x10x24	616983211311
T10103	10x10x36	616983211328
T10104	10x10x48	616983211335
T10105	10x10x60	616983211342
T12121	12x12x12	616983211410
T12122	12x12x24	616983211427
T12123	12x12x36	616983211434

Catalog Number	H x W x D (Inches)	UPC Codes
T441NK	4x4x12	705332312431
T442NK	4x4x24	705332312448
T443NK	4x4x36	705332312455
T444NK	4x4x48	705332312462
T445NK	4x4x60	705332312479
T661NK	6x6x12	705332312493
T662NK	6x6x24	705332312509
T663NK	6x6x36	705332312516
T664NK	6x6x48	705332312523
T665NK	6x6x60	705332312530
T881NK	8x8x12	705332312554
T882NK	8x8x24	705332312561
T883NK	8x8x36	705332312578
T884NK	8x8x48	705332312585
T885NK	8x8x60	705332312417
T10101NK	10x10x12	705332312295
T10102NK	10x10x24	705332312301
T10103NK	10x10x36	705332312318
T10104NK	10x10x48	705332312325
T10105NK	10x10x60	705332312332
T12121NK	12x12x12	705332312356
T12122NK	12x12x24	705332312363
T12123NK	12x12x36	705332312370



- NEMA Type 1
- UL 870 Type 1
- CUL Type 1 (equivalent to CSA)



2½ x 2½	
Description	Catalog No.
Length – 1'	T221
Length – 2'	T222
Length – 3'	T223
Length – 4'	T224
Length – 5'	T225
Connector	T2C
End Wall	T2E
Panel Adapter	T2PA
Elbow – 90	T290
Elbow – 45	T245
Tee	T2T
Cross	T2X

6 x 6	
Description	Catalog No.
Length – 1'	T661
Length – 2'	T662
Length – 3'	T663
Length – 4'	T664
Length – 5'	T665
Connector	T6C
End Wall	T6E
Panel Adapter	T6PA
Elbow – 90	T690
Elbow – 45	T645
Tee	T6T
Cross	T6X
Reducer 6 - 4	TR6

10 x 10	
Description	Catalog No.
Length – 1'	T10101
Length – 2'	T10102
Length – 3'	T10103
Length – 4'	T10104
Length – 5'	T10105
Connector	T10C
End Wall	T10E
Panel Adapter	T10PA
Elbow – 90	T1090
Elbow – 45	T1045
Tee	T10T
Cross	T10X
Reducer 10 - 8	TR10

4 x 4	
Description	Catalog No.
Length – 1'	T441
Length – 2'	T442
Length – 3'	T443
Length – 4'	T444
Length – 5'	T445
Connector	T4C
End Wall	T4E
Panel Adapter	T4PA
Elbow – 90	T490
Elbow – 45	T445
Tee	T4T
Cross	T4X
Reducer 4 - 2	TR4

8 x 8	
Description	Catalog No.
Length – 1'	T881
Length – 2'	T882
Length – 3'	T883
Length – 4'	T884
Length – 5'	T885
Connector	T8C
End Wall	T8E
Panel Adapter	T8PA
Elbow – 90	T890
Elbow – 45	T845
Tee	T8T
Cross	T8X
Reducer 8 - 6	TR8

12 x 12	
Description	Catalog No.
Length – 1'	T12121
Length – 2'	T12122
Length – 3'	T12123
Length – 4'	T12124
Length – 5'	T12125
Connector	T12C
End Wall	T12E
Panel Adapter	T12PA
Elbow – 90	T1290
Elbow – 45	T1245
Tee	T12T
Cross	T12X
Reducer 12 - 10	TR12

45° Elbow



End Wall



90° Elbow



Tee Fitting



Cross Fitting



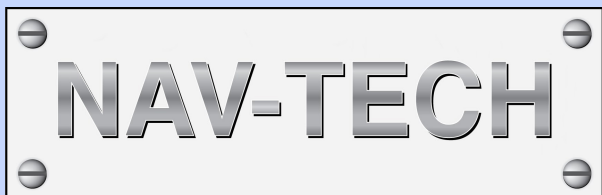
Panel Adapter



Coupling



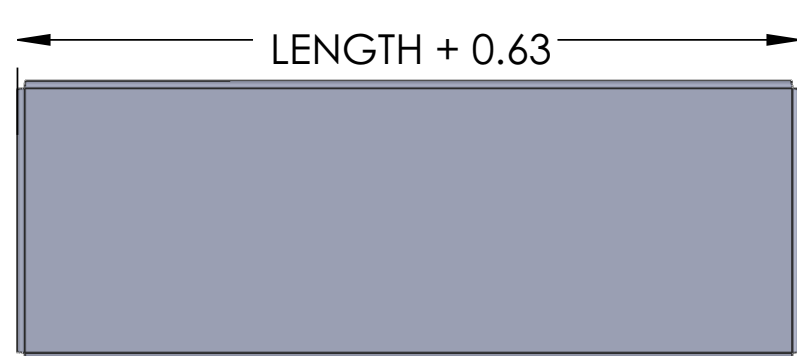
*XX Would be substituted for the amperage of the box. (I.E. 2000A w “20” instead of “XX”)



Trough Wireway NEMA 3R Raintight Outdoor

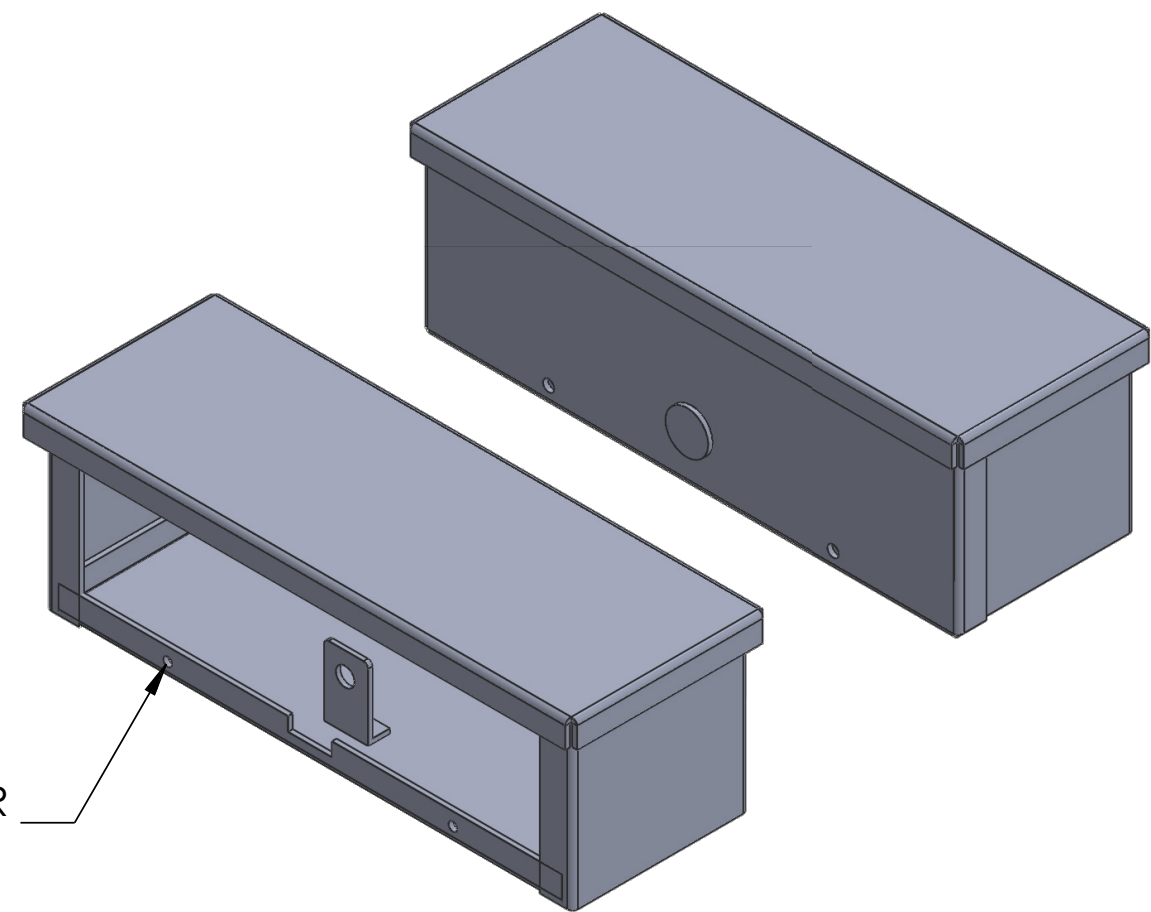
NOTES:

1. TROUGH AND COVER CONSTRUCTION- GALV SHEET STEEL.
2. FINISH: POWDER COAT GRAY ENAMEL.
3. STANDARD 0.75" LIP ON TOP LEDGE OF TROUGH OPENING.
4. RAIN TIGHT SHED ROOF CONSTRUCTION INCLUDES STITCH WELD EDGES EMBOSSED MOUNTING POINTS ON ALL FOUR CORNERS, SLIDE ON SCREW COVER (SHOWN IN ISOMETRIC VIEW).
5. PROVISIONS FOR BARREL LOCK GUARD.



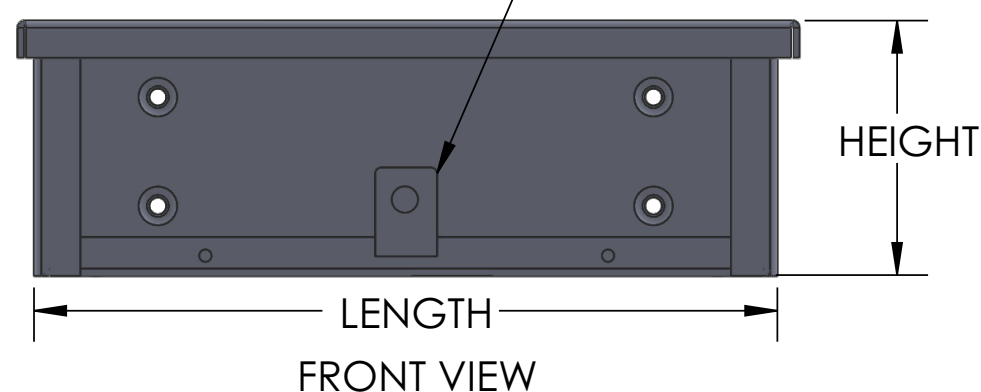
TOP VIEW

SCREW FASTENED COVER
10-32 SCREWS

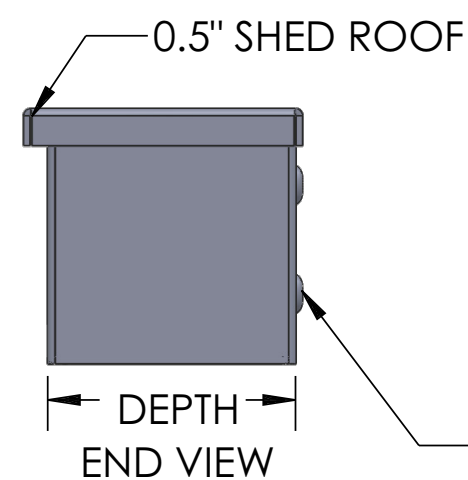


E496751

UTILITY SEALING PROVISION
FOR BARREL LOCK GUARD



FRONT VIEW



END VIEW

EMBOSSD MOUNTING HOLES



Features

- Trough and cover are manufactured from 16 gauge G90 galvanized steel.
- Available with or without paint. For no paint, refer to suffix -NP in the catalog number. Unpainted trough is non-stock.
- Cover is designed to fit under the drip shield top, and is held in place with plated steel screws.
- Wireway is available with or without concentric knockouts on the bottom. NK trough is non-stock.
- Embossed mounting holes are provided on the backs of the units.
- Knockout for utility barrel lock seal.
- ANSI 61 gray polyester powder coating over phosphatized G90 galvanized steel.
- Available accessories: Replacement cover, touch-up paint, barrel lock, replacement screws, backplates, ground screws.

Application

- Designed to protect wiring in outdoor installations against rain, sleet, or snow, or indoors against dripping water.

- NEMA Type 3R
- UL 870 Type 3R
- cUL Type 3R (equivalent to CSA)



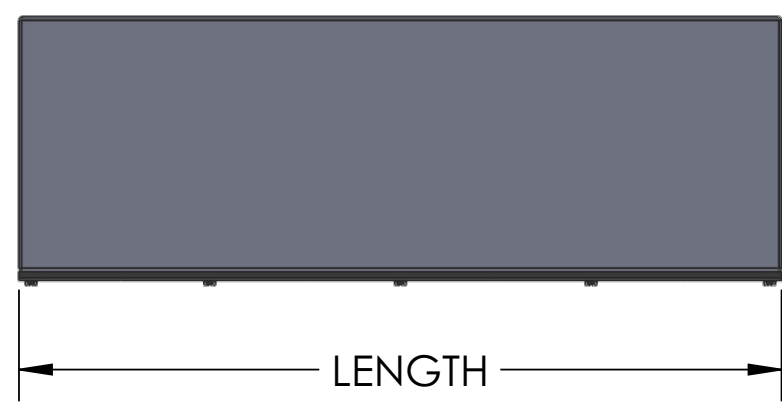
*Stainless steel or aluminum available upon request
*Additional sizes available upon request

Catalog Number	H x W x D (Inches)	UPC Codes
RTT441	4x4x12	616983210420
RTT442	4x4x24	616983210437
RTT443	4x4x36	616983210444
RTT444	4x4x48	616983210451
RTT445	4x4x60	616983210468
RTT661	6x6x12	616983210475
RTT662	6x6x24	616983210482
RTT663	6x6x36	616983210499
RTT664	6x6x48	616983210505
RTT665	6x6x60	616983210512
RTT881	8x8x12	616983210529
RTT882	8x8x24	616983210536
RTT883	8x8x36	616983210543
RTT884	8x8x48	616983210550
RTT885	8x8x60	616983210567

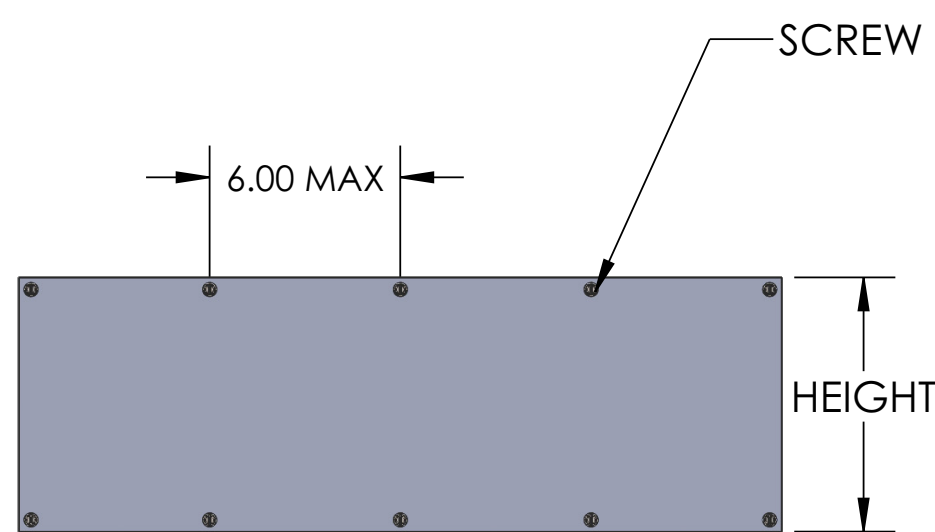


- NEMA Type 3R
- UL 870 Type 3R
- cUL Type 3R (equivalent to CSA)

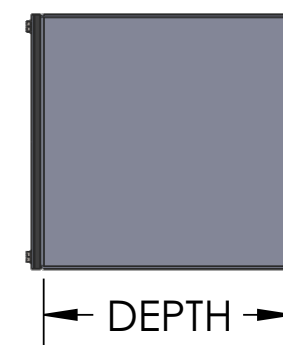




TOP VIEW



FRONT VIEW

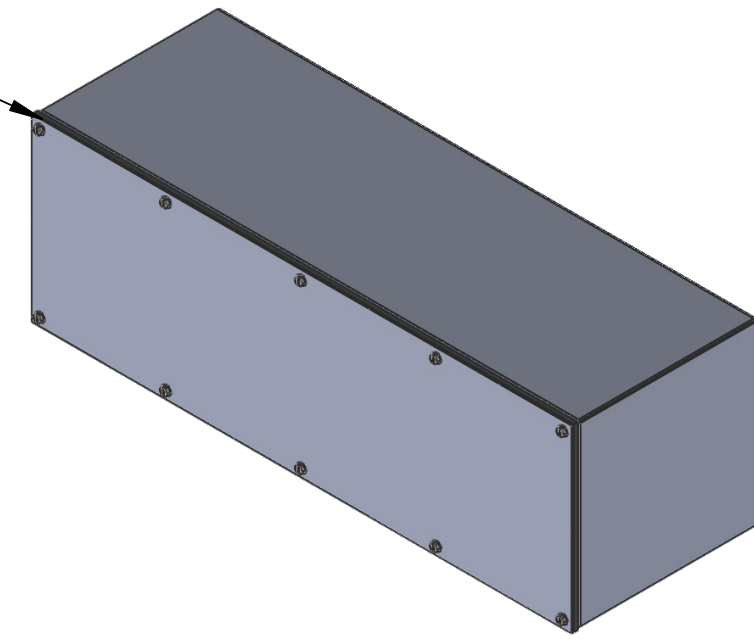


SIDE VIEW

NOTES:

1. BOX AND COVER CONSTRUCTION- GALVANNEALED (CODE GA).
2. FINISH: ANSI 61 WRINKLE GREY POWDER COAT.
3. CLOSED CELL FOAM GASKETED COVER.
3. STANDARD 0.75" LIP AROUND PERIMETER OF SC BOX OPENING.
4. ZINC COATED STEEL SCREWS AT CORNERS OF THE BOX AND EVERY 6.00" WHERE SPACE ALLOWS.
5. NO KO'S ON WEATHERPROOF TROUGH.

GASKETED COVER



Features

- Trough and cover are manufactured from 16 gauge G90 galvanized steel.
- All WPT boxes come without knockouts and are continuously welded and ground smooth.
- Available with or without paint and in stainless steel.
- Covers are neoprene gasketed and fastened with plated screws.
- ANSI 61 wrinkle gray polyester powder coat standard finish.
- Available Accessories: Flush cover, replacement cover, extra screws, ground screws, back plates.

Application

- Designed to protect wiring in outdoor or indoor installations against rain, sleet, snow, or indoor moisture or hose directed water.

- NEMA Types 3/4/12/13
- UL 870 Types 3/4/12/13
- cUL Types 3/4/12/13



Weatherproof Trough Wireway
Outdoor NEMA 3/4/12/13

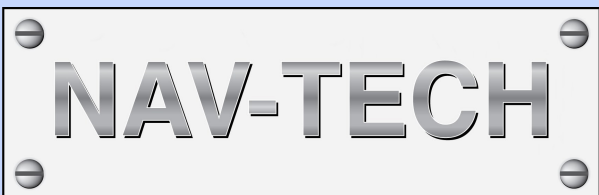
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*Stainless steel or aluminum available upon request
*Additional sizes available upon request

Catalog Number	H x W x D (Inches)	UPC Codes
WPT441	4x4x12	616983212936
WPT442	4x4x24	616983212943
WPT443	4x4x36	616983212950
WPT444	4x4x48	616983212967
WPT445	4x4x60	616983212974
WPT661	6x6x12	616983212981
WPT662	6x6x24	616983212998
WPT663	6x6x36	616983213001
WPT664	6x6x48	616983213018
WPT665	6x6x60	616983213025
WPT881	8x8x12	616983213032
WPT882	8x8x24	616983213049
WPT883	8x8x36	616983213056
WPT884	8x8x48	616983213063
WPT885	8x8x60	616983213070
WPT10101	10x10x12	705332310499
WPT10102	10x10x24	705332310505
WPT10103	10x10x36	616983212899
WPT10104	10x10x48	705332310512
WPT10105	10x10x60	616983212905
WPT12121	12x12x12	705332310529
WPT12122	12x12x24	705332310536
WPT12123	12x12x36	616983212912
WPT12124	12x12x48	705332310543
WPT12125	12x12x60	616983212929



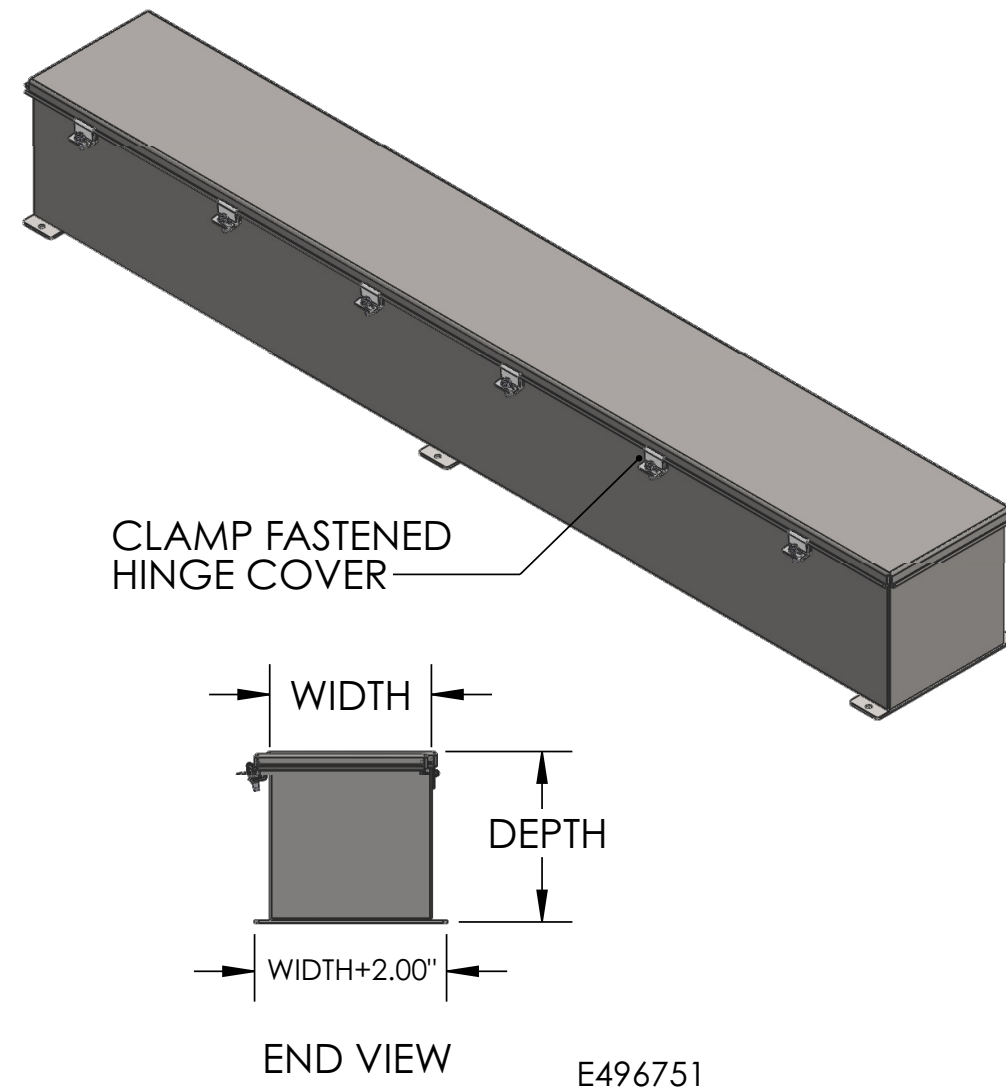
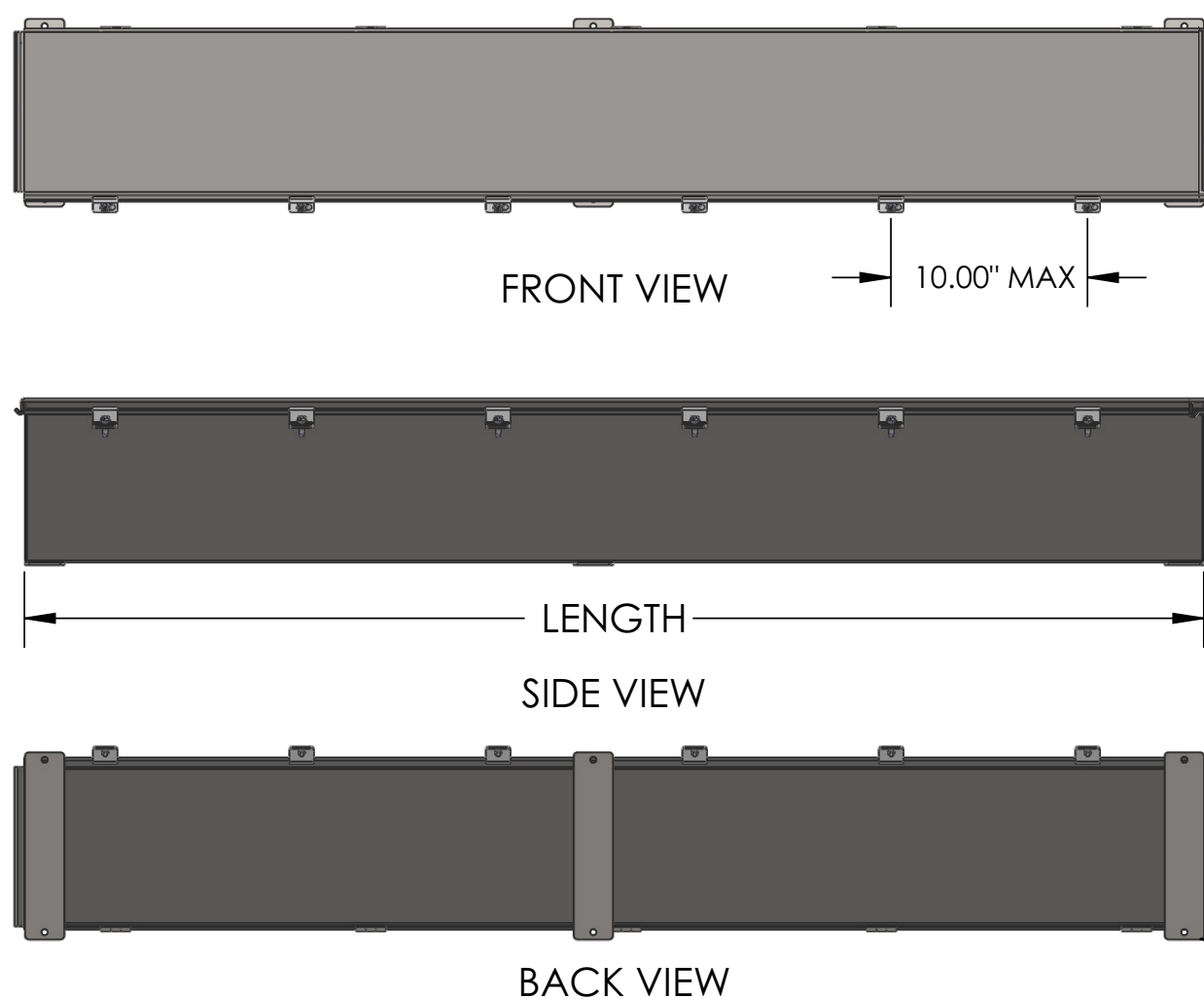
- NEMA Types 3/4/12/13
- UL 870 Types 3/4/12/13
- cUL Types 3/4/12/13



Weatherproof Trough Wireway NEMA 4X JIC Style

NOTES:

1. GALVANNEALED STEEL, ALUMINUM OR STAINLESS STEEL (CODE GA).
2. FINISH: ANSI 61 WRINKLE GREY POWDER COAT FOR STEEL ENCLOSURES, MILL BRUSHED FINISH FOR ALUMINUM AND STAINLESS ENCLOSURES.
3. CLOSED CELL FOAM GASKETED HINGE CLAMP FASTENED COVER.
4. STANDARD 0.75" LIP AROUND PERIMETER OF TROUGH OPENING.
5. STAINLESS STEEL SCREWS AT CLAMP POINTS AROUND THE BOX AND EVERY 10.00 WHERE SPACE ALLOWS.
6. NO KO'S ON WEATHERPROOF TROUGH.
7. OPTIONAL MOUNTING STUDS AND BACKPANELS AVAILABLE BY REQUEST.
8. FACTORY GROUND STUD AND COVER BONDING STUD STANDARD.
9. PADLOCKABLE BY REQUEST.



Features

- Trough and cover are manufactured from 16 code GA stainless steel in accordance with UL standards.
- Stainless steel external screw clamps on three sides.
- Stainless steel continuous hinge.
- All seams continuously welded and ground smooth.
- Rolled lip around all sides of cover opening for watertight seal.
- Neoprene gasket attached to cover with oil resistant adhesive.
- Clamps on three sides of cover for watertight seal.
- Stainless steel external hardware.
- Hasp and staple provided for padlocking upon request.
- External mounting feet.
- Collar studs for mounting optional panel available upon request.
- Mill brushed finish is standard.

Application

- Designed to protect wiring in outdoor installations against rain, sleet, or snow, or indoors against dripping water.
- Degree of protection against corrosion.
- Protection against hose directed water.

- NEMA Type 4X
- UL 50
- 50E Listed



Wire Size	Wire Areas (sq. inches)			Wireway Size & Maximum Number of Wires								
	Wire Types			2½ x 2½ (1.25 sq. in. +)			4 x 4 (3.2 sq. in. +)			6 x 6 (7.2 sq. in. +)		
	TFN, THHN, THWN (A)	XHHW (B)	T, THW, TW, TF (C)	(A)	(B)	(C)	(A)	(B)	(C)	(A)	(B)	(C)
14	.0087	.0131	.0135	143*	95*	92*	367*	244*	237*	827*	549*	533*
14 (THW)	-	-	.0206	-	-	60*	-	-	155*	-	-	349*
12	.0117	.0167	.0172	106*	74*	72*	273*	191*	186*	615*	431*	418*
12 (THW)	-	-	.0251	-	-	49*	-	-	127*	-	-	286*
10	.0184	.0216	.0224	67*	57*	55*	173*	148*	142*	391*	333*	321*
10 (THW)	-	-	.0311	-	-	40*	-	-	102*	-	-	231*
8	.0373	.0456	.0408	33*	27	30	85*	70*	78*	193*	157*	176*
8 (THW)	-	-	.0526	-	-	23	-	-	60*	-	-	136*
6	.0519	.0625	.0819	24	20	15	61*	51*	39*	138*	115*	87*
4	.0845	.0845	.1087	14	14	11	37*	37*	29	85*	85*	66*
3	.0995	.0995	.1263	12	12	9	32*	32*	25	72*	72*	57*
2	.1182	.1182	.1473	10	10	8	27	27	21	60*	60*	48*
1	.1590	.1590	.2027	7	7	6	20	20	15	45*	45*	35*
0	.1893	.1893	.2367	6	6	5	16	16	13	38*	38*	30
00	.2265	.2265	.2781	5	5	4	14	14	11	31*	31*	25
000	.2715	.2715	.3288	4	4	3	11	11	9	26	26	21
0000	.3278	.3278	.3904	3	3	3	9	9	8	21	21	18
250	.4206	.4206	.4877	2	2	2	7	7	6	17	17	14
300	.4669	.4669	.5581	2	2	2	6	6	5	15	15	12
350	.5307	.5307	.6291	2	2	1	6	6	5	13	13	11
400	.5931	.5931	.6969	2	2	1	5	5	4	12	12	10
500	.7163	.7163	.8316	1	1	1	4	4	3	10	10	8

Wire Size	Wire Areas (sq. inches)			Wireway Size & Maximum Number of Wires								
	Wire Types			8 x 8 (12.8 sq. in. +)			10 x 10 (20 sq. in. +)			12 x 12 (28.8 sq. in. +)		
	TFN, THHN, THWN (A)	XHHW (B)	T, THW, TW, TF (C)	(A)	(B)	(C)	(A)	(B)	(C)	(A)	(B)	(C)
14	.0087	.0131	.0135	1471*	977*	948*	2298*	1526*	1481*	3310*	2198*	2133*
14 (THW)	-	-	.0206	-	-	621*	-	-	970*	-	-	1398*
12	.0117	.0167	.0172	1094*	766*	744*	1709*	1197*	1162*	2461*	1724*	1674*
12 (THW)	-	-	.0251	-	-	509*	-	-	796*	-	-	1147*
10	.0184	.0216	.0224	695*	592*	571*	1086*	925*	892*	1565*	1333*	1285*
10 (THW)	-	-	.0311	-	-	411*	-	-	643*	-	-	926*
8	.0373	.0456	.0408	343*	280*	313*	536*	438*	490*	772*	631*	705*
8 (THW)	-	-	.0526	-	-	243*	-	-	380*	-	-	547*
6	.0519	.0625	.0819	246*	204*	156*	385*	320*	244*	554*	460*	351*
4	.0845	.0845	.1087	151*	151*	117*	236*	236*	183*	340*	340*	264*
3	.0995	.0995	.1263	128*	128*	101*	201*	201*	158*	289*	289*	228*
2	.1182	.1182	.1473	108*	108*	86*	169*	169*	135*	243*	243*	195*
1	.1590	.1590	.2027	80*	80*	63*	125*	125*	98*	181*	181*	142*
0	.1893	.1893	.2367	67*	67*	54*	105*	105*	84*	152*	152*	121*
00	.2265	.2265	.2781	56*	56*	46*	88*	88*	71*	127*	127*	103*
000	.2715	.2715	.3288	47*	47*	38*	73*	73*	60*	106*	106*	87*
0000	.3278	.3278	.3904	39*	39*	32*	61*	61*	51*	87*	87*	73*
250	.4206	.4206	.4877	30	30	26	47*	47*	41*	68*	68*	59*
300	.4669	.4669	.5581	27	27	22	42*	42*	35*	61*	61*	51*
350	.5307	.5307	.6291	24	24	20	37*	37*	31*	54*	54*	45*
400	.5931	.5931	.6969	21	21	18	33*	33*	28	48*	48*	41*
500	.7163	.7163	.8316	17	17	15	27	27	24	40*	40*	34*

- † The sq. in. figure represents 20% of the interior cross sectional area of the wireway. (See below 362-5 N.E.C.)
- * These figures represent the maximum no. of conductors of a given size that may be installed in a wireway when conditions permit exceeding the maximum fill of 30 conductors as detailed below in "exception NO. 2 N.E.C. para. 362-5".
- N.E.C. 362-5 Number of conductors. Wireway shall not contain more than 30 current carrying conductors at any cross section. The sum of the cross-sectional areas of all contained conductors at any cross-section of a wireway shall not exceed 20% of the interior cross sectional area of the wireway.
- Exception NO. 2 Conductors for signal circuits or controller conductors between a motor and its starter and used only for starting duty shall not be considered as current carrying conductors.
- THE ABOVE WIREWAY FILL TABLE IS ONLY A GUIDE TO USERS. IT IS OUR INTERPRETATION OF THE CODE AND IN NO WAY SHOULD IT BE CONSIDERED AS AUTHORITATIVE.

