

Enduro wireway is designed to protect data control, communication and power cables from atmospheric conditions (like dust, dirt, oil, water) and unauthorized/accidental tampering. Enduro lay-in wireway is often found in:

- Computer, communication, and clean room applications.
Enduro wireway readily conforms to the grid-post system of raised floors.
- Food processing plants
where periodic washdowns often utilize caustic disinfectants
- Transportation/subway systems
where enclosed environments desire telecommunication wireway materials to have low smoke development and non-toxic smoke properties for enhanced public safety

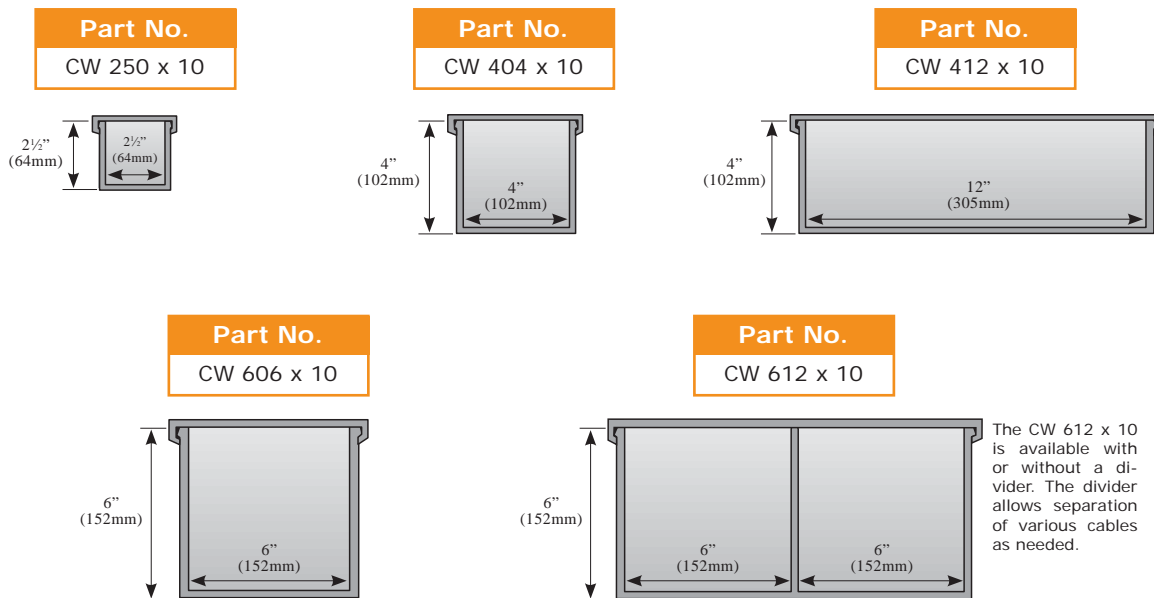


Our wireway straight sections and fittings are provided with a "snap-on / snap-off" cover. It also has a modular design which includes straight sections, elbows, tees and crosses.

Enduro lay-in-wireway is manufactured by the pultrusion process using special fiberglass composite designs and fire-retardant resin formulation for superior strength, durability, and corrosion resistance.

All wireway sections and fittings are available in the five sizes shown below. Please contact us about other available sizes and gasketing. Straight sections and covers come in 10 ft. lengths. Splice plates are a separate order item.

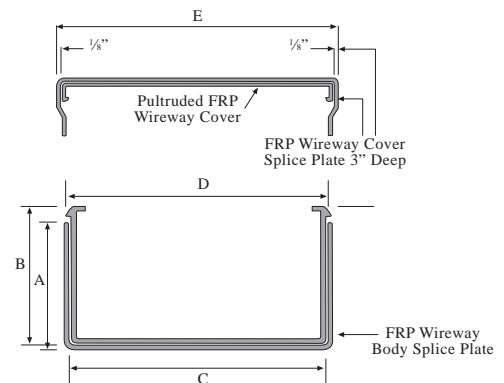
Enduro wireway carries a Class 1 fire rating in accordance with ASTM Standard E-84.



Dimensions - Wireway with Cover

Part No.	Dimension Inches (mm)				
	A	B	C	D	E
CW 250 x 10	N/A	2.5" (64)	2.5" (64)	3" (76)	N/A*
CW 404 x 10	3 3/16" (81)	4" (102)	4" (102)	4 3/4" (121)	5 5/8" (136)
CW 412 x 10	3 3/16" (81)	4" (102)	12" (305)	12 3/4" (324)	13 3/8" (340)
CW 606 x 10	5 5/8" (143)	6" (152)	6" (152)	6 3/4" (171)	7 3/8" (187)
CW 612 x 10	5 5/8" (143)	6" (152)	12" (305)	12 3/4" (324)	13 3/8" (340)

* Cover body and splice plates not available for CW250. See page 34 for splicing method



Wireway

Technical Data - Wireway

Wireway Load Span

Part No.	Maximum Span	Maximum Loading
CW250 x 10	contact us	contact us
CW404 x 10	10' (3m)	10 Lbs/Ft (14.9 kg/m)
CW412 x 10	10' (3m)	12 Lbs/Ft (17.9 kg/m)
CW606 x 10	10' (3m)	20 Lbs/Ft (29.8 kg/m)
CW612 x 10	10' (3m)	25 Lbs/Ft (37.2 kg/m)



Wireway Physical Properties

Electrical

Property	Polyester Fire Retardant	ASTM Test
Electric Strength, Short Term in Oil 1/8", VPM*	200	D149
Electric Strength, Short Term in Oil, KV per inch	35	D149

Other

Property	Polyester Fire Retardant	ASTM Test
Density - Solid Shape Lbs./In.	0.065	D792
Water Absorption (24 Hr. Immersion) Max % by Wt.	0.50	D570
Surface Burning Characteristic, Maximum	25	E84

Thermal

Property	Polyester Fire Retardant	ASTM Test
Thermal Coefficient of Expansion (Inches/Inch/°F)**	5 x 10 ⁻⁶	D696

Logitudinal Direction

Property	Polyester Fire Retardant	ASTM Test
Ultimate Tensile Strength	30,000 PSI	D638
Ultimate Compressive Strength	30,000 PSI	D695
Ultimate Flexural Strength	30,000 PSI	D790

Transverse Direction

Property	Polyester Fire Retardant
Ultimate Tensile Strength	7,000 PSI
Ultimate Compressive Strength	15,000 PSI
Ultimate Flexural Strength	10,000 PSI

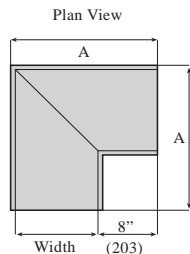
* Specimen tested perpendicular to laminate face.
** Reported value measured in longitudinal direction.

Meets and exceeds test standard for UL 94-VO Flammability Classification and has a flame spread rating under 25 when tested in accordance with ASTM E84.

Fittings - Wireway

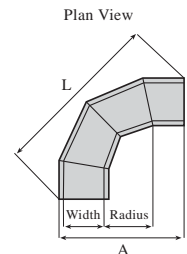
90° Horizontal Direct Bend

Part No.	A
CW 250-90H	8" (203)
CW 404-90H	12 ¹³ / ₁₆ " (325)
CW 412-90H	21" (533)
CW 606-90H	15" (381)
CW 612-90H	21" (533)



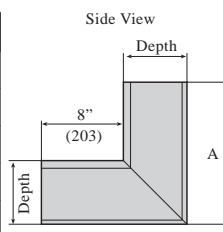
90° Horizontal Bend 12" Radius

Part No.	A	L
CW 250-90H-12	22 ¹ / ₂ " (572)	31 ¹³ / ₁₆ " (808)
CW 404-90H-12	24 ¹³ / ₁₆ " (630)	35" (889)
CW 412-90H-12	33" (838)	46 ⁵ / ₁₆ " (1183)
CW 606-90H-12	27" (686)	38 ¹ / ₈ " (968)
CW 612-90H-12	33" (838)	46 ⁵ / ₁₆ " (1183)



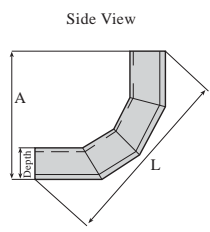
90° Vertical Inside Direct Bend

Part No.	A
CW 250-90IV	10 ¹ / ₂ " (267)
CW 404-90IV	12" (305)
CW 412-90IV	12" (305)
CW 606-90IV	14" (356)
CW 612-90IV	14" (356)



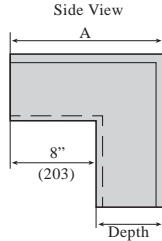
90° Vertical Inside Bend 12" Radius

Part No.	A	L
CW 250-90IV-12	17 ⁷ / ₁₆ " (446)	24 ¹³ / ₁₆ " (630)
CW 404-90IV-12	18 ¹ / ₈ " (460)	25 ¹¹ / ₁₆ " (652)
CW 412-90IV-12	18 ¹ / ₈ " (460)	25 ¹¹ / ₁₆ " (652)
CW 606-90IV-12	18 ¹ / ₈ " (460)	25 ¹¹ / ₁₆ " (652)
CW 612-90IV-12	18 ¹ / ₈ " (460)	25 ¹¹ / ₁₆ " (652)



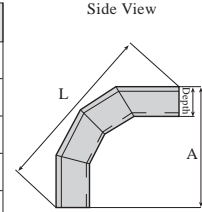
90° Vertical Outside Direct Bend

Part No.	A
CW 250-90OV	10½" (267)
CW 404-90OV	12" (305)
CW 412-90OV	12" (305)
CW 606-90OV	14" (356)
CW 612-90OV	14" (356)



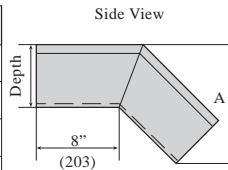
90° Vertical Outside Bend 12" Radius

Part No.	A	L
CW 250-90OV-12	19⅜" (487)	27⅞" (689)
CW 404-90OV-12	22⅞" (562)	31⅜" (797)
CW 412-90OV-12	22⅞" (562)	31⅜" (797)
CW 606-90OV-12	24⅜" (614)	34⅜" (868)
CW 612-90OV-12	24⅜" (614)	34⅜" (868)



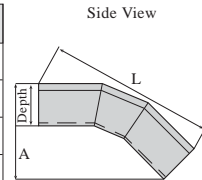
45° Vertical Outside Direct Bend

Part No.	A
CW 250-45OV	8⅞" (205)
CW 404-45OV	10" (254)
CW 412-45OV	10" (254)
CW 606-45OV	12" (305)
CW 612-45OV	12" (305)



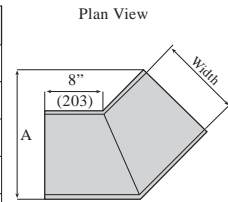
45° Vertical Outside Bend 12" Radius

Part No.	A	L
CW 250-45OV-12	9⅞" (252)	21⅞" (543)
CW 404-45OV-12	12" (305)	23⅞" (595)
CW 412-45OV-12	12" (305)	23⅞" (595)
CW 606-45OV-12	14" (356)	25" (635)
CW 612-45OV-12	14" (356)	25" (635)



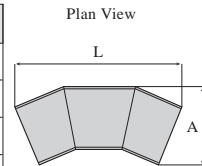
45° Horizontal Direct Bend

Part No.	A
CW 250-45H	8⅞" (205)
CW 404-45H	10½" (267)
CW 412-45H	18⅞" (473)
CW 606-45H	12⅞" (321)
CW 612-45H	18⅞" (473)



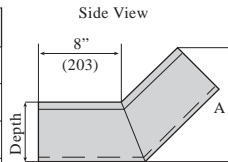
45° Horizontal Bend 12" Radius

Part No.	A	L
CW 250-45H-12	5⅞" (141)	25⅞" (657)
CW 404-45H-12	8⅞" (205)	28⅞" (721)
CW 412-45H-12	16⅞" (411)	34⅞" (878)
CW 606-45H-12	10⅞" (259)	30" (762)
CW 612-45H-12	16⅞" (411)	34⅞" (878)



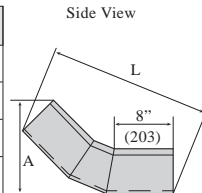
45° Vertical Inside Direct Bend

Part No.	A
CW 250-45IV	8⅞" (205)
CW 404-45IV	10⅞" (264)
CW 412-45IV	10⅞" (264)
CW 606-45IV	11⅞" (284)
CW 612-45IV	11⅞" (284)



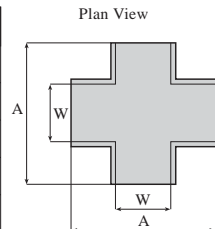
45° Vertical Inside Bend 12" Radius

Part No.	A	L
CW 250-45IV-12	10⅞" (257)	21⅞" (535)
CW 404-45IV-12	11⅞" (287)	21¼" (552)
CW 412-45IV-12	11⅞" (287)	21¼" (552)
CW 606-45IV-12	12¾" (324)	21¼" (552)
CW 612-45IV-12	12¾" (324)	21¼" (552)



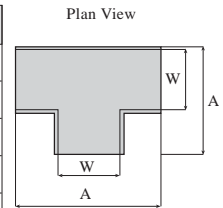
Horizontal Cross Direct

Part No.	A
CW 250-HC	18½" (470)
CW 404-HC	20⅞" (524)
CW 412-HC	28¾" (730)
CW 606-HC	22¾" (578)
CW 612-HC	28¾" (730)



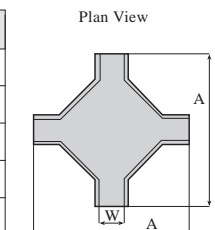
Horizontal Tee Direct

Part No.	A	L
CW 250-HT	10½" (267)	18½" (470)
CW 404-HT	13" (330)	20⅞" (524)
CW 412-HT	21" (533)	28¾" (730)
CW 606-HT	15" (381)	22¾" (578)
CW 612-HT	21" (533)	28¾" (730)



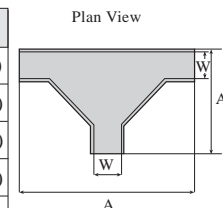
Horizontal Cross 12" Radius

Part No.	A
CW 250-HC-12	42¼" (1073)
CW 404-HC-12	44⅞" (1133)
CW 412-HC-12	52¾" (1140)
CW 606-HC-12	46¾" (1187)
CW 612-HC-12	52¾" (1140)



Horizontal Tee 12" Radius

Part No.	A	L
CW 250-HT-12	22½" (572)	42¼" (1073)
CW 404-HT-12	24⅞" (630)	44⅞" (1133)
CW 412-HT-12	32⅞" (837)	52¾" (1340)
CW 606-HT-12	26⅞" (684)	46¾" (1187)
CW 612-HT-12	32⅞" (837)	52¾" (1340)



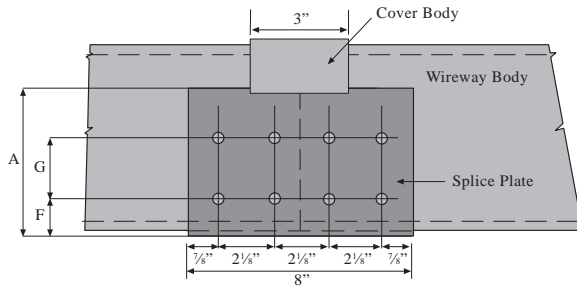
Splice Plates & Accessories - Wireway

Splice Plates - Wireway

Cover Body & Splice Plates

Part No.	A	F	G	Hole Dia.
CW 404 x SP304	3 ³ / ₁₆ " (81)	1 ³ / ₄ " (44)	0	⁷ / ₁₆ " (11)
CW 412 x SP304	3 ³ / ₁₆ " (81)	1 ³ / ₄ " (44)	0	⁷ / ₁₆ " (11)
CW 606 x SP304	5 ³ / ₈ " (136)	1 ¹ / ₂ " (38)	2 ⁵ / ₈ " (67)	⁷ / ₁₆ " (11)
CW 612 x SP304	5 ³ / ₈ " (136)	1 ¹ / ₂ " (38)	2 ⁵ / ₈ " (67)	⁷ / ₁₆ " (11)

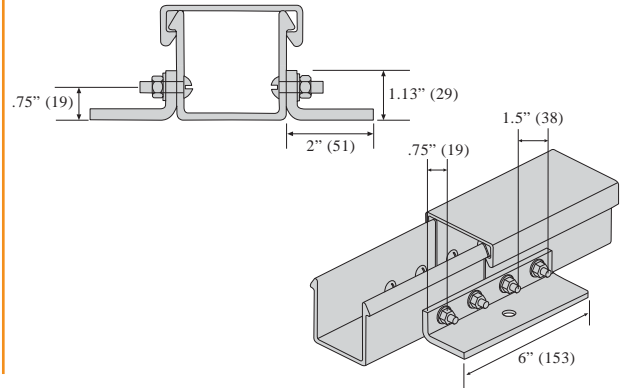
Includes snap-on cover splice plate and bottom plate with 304SS fasteners. If 316SS is required, substitute 316 for 304 in part number.



CW 250 Hold Down Splice Joint

Part No.
CW250-AC304

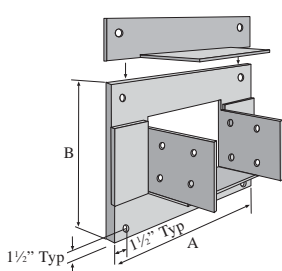
A dual purpose splice plate that offers hold down capabilities. Easily adaptable to other Enduro wireway sizes with or without body splice plate. Standard hold down splice joint material color is gray. Contact us for details regarding a custom color. If 316SS is required, substitute 316 for 304 in part number.



Accessories - Wireway

Panel Adapter

Part No.	A	B
CW 250 - PA	contact us	contact us
CW 404 - PA	10 ¹ / ₄ " (260)	10 ³ / ₈ " (264)
CW 412 - PA	18 ¹ / ₄ " (463)	10 ³ / ₈ " (264)
CW 606 - PA	12 ¹ / ₄ " (311)	12 ³ / ₈ " (314)
CW 612 - PA	18 ¹ / ₄ " (463)	12 ³ / ₈ " (314)

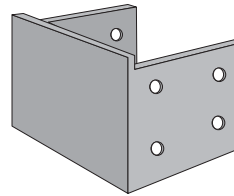


Top plate removable for easy access.

Closure Plate

Part No.
CW 250 - CP304
CW 404 - CP304
CW 412 - CP304
CW 606 - CP304
CW 612 - CP304

Fasteners are 304SS. If required 316SS can be substituted; Example: CW 404-CP-316



Specification - Wireway

1.0 General

- 1.1 This specification covers the requirements for a fiberglass lay-in-wireway system to support and protect power, control and instrumentation cables.
- 1.2 Wireway shall be solid bottom type construction with minimum wall thickness of .1875 inches.
- 1.3 Cover and cover splice plates shall be snap-on type construction requiring no installation fasteners.

2.0 Standards

- 2.1 The wireway system shall conform to the applicable sections of the National Electric Code (NEC) Article 378.
- 2.2 The NEC requires wireway to be supported at intervals not exceeding 5 feet, unless specifically approved for supports at greater intervals, but in no case shall the distance between supports exceed 10 feet.

3.0 Materials

- 3.1 The wireway, cover, and splice plates shall be made from the pultrusion process utilizing an Enduro Fire Retardant Polyester resin formulation with UV light inhibiting additives and exterior veil coverage.
- 3.2 Resin System (as required): Isophthalic Polyester, Vinyl Ester, Halogen-Free Isophthalic Polyester, Halogen-Free Vinyl Ester or Halogen-Free Low Smoke Plus resin available.
- 3.3 All composite material shall meet ASTM E84, maximum 25 flame spread rating.
- 3.4 Color shall be gray.

4.0 Loading Capabilities

Consult factory for specific applications.