

Hevi-Bar II Overview

The rugged Hevi-Bar II Conductor Bar System delivers reliable, high-capacity electrical performance. It is ideal for tough environments and demanding, heavy-use applications found in mills, heavy industry, storage yards, and transit systems. It is truly a "put it up once and forget it" system that will last for the life of your equipment.

UL Listed



Hevi-Bar II is ideal for:

- Medium to large cranes
- Bulk Handling Systems
- Mills and heavy industry
- Transit Systems
- Material Handling Equipment
- Other mobile power applications

Ampacity Selections: 500A, 700A, 1000A, and 1500A, at 600 volts.

Maximum Speed: 2000 feet per minute
 (Contact the factory if higher speeds are needed)

Hevi-Bar II Features

- Uses surface area rather than mass to dissipate heat generated by high current conditions
- Can be mounted horizontally or vertically ("side entry")
- V-grooved for positive and accurate collector shoe tracking
- Has hardened, long-wearing and corrosion resistant stainless steel contact surface.
- Offers a choice of insulating covers:
 - Standard orange for indoor use
 - Green for the ground (bonding) conductor
 - Black UV-resistant for outdoor use
 - Medium or high heat versions to withstand higher ambient temperatures

Hevi Bar II is easy to install and maintain. For further information, please download the Hevi Bar II manual from our web site.

DURA-COAT Option - for Hevi-Bar II

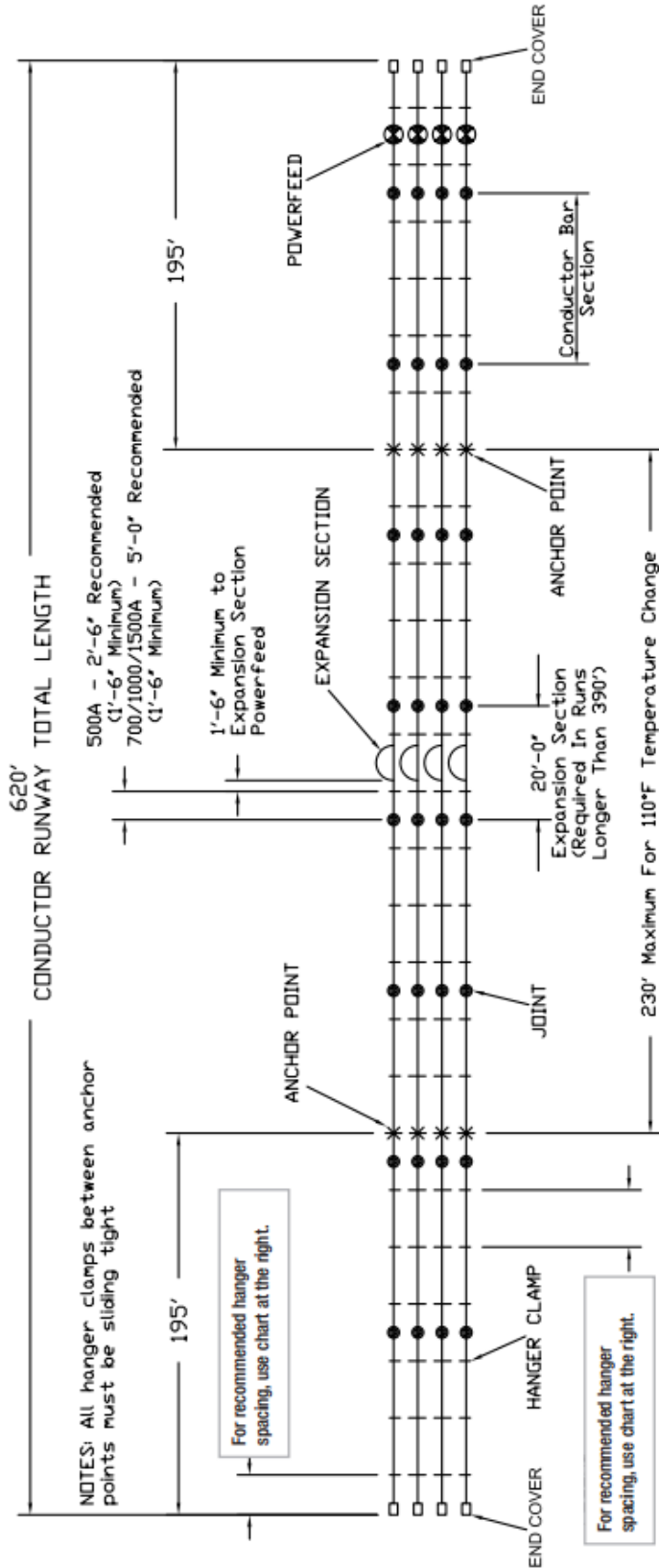
Hevi-Bar II is available with our optional **DURA-COAT** finish, specially formulated for extremely corrosive environments. This coating combines a ceramic compound with an epoxy binder to provide superior corrosion resistance and adhesion to the base materials. The entire bar is coated, with the exception of the stainless steel running surface. The insulating cover is applied over the coating. All metal parts of the collector arm are coated.

DURA-COAT is ideal for galvanizing and electro-plating lines, chemical plants, smelters, foundries and cast houses, coke and ore handling cranes, and oxidizing/electro-winning facilities.

Contact Conductix-Wampfler for further information about **DURA-COAT**.

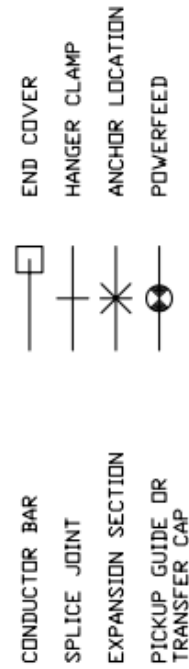
Hevi-Bar II Typical 4-Bar System

EXAMPLE OF 4 CONDUCTOR RUNWAY HEAVY BAR 2 (3 PHASE + 1 GROUND)



HANGER SPACING CHART

SYSTEM	FIRST HANGER	MAX. HANGER SPACING
500 AMP	2'-6"	5'-0"
700 AMP	3'-9"	7'-6"
1000 AMP	5'-0"	10'-0"
1500 AMP	5'-0"	10'-0"



Hevi-Bar II - 500A Conductors

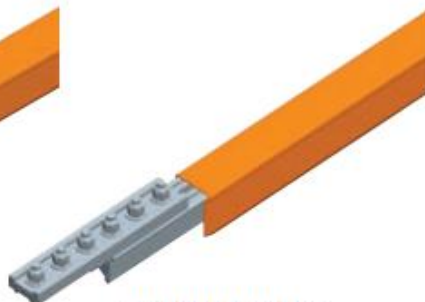
Standard Conductor Bar and Components

Type / Max Temp.	Use (Color)	Conductor Bar	Conductor Bar Cut Lgth (Specify 5 to 29 ft)	Expansion Section	Splice	Power Feed	Power Interrupting Section ♦	End Cover
PVC 160°F	Phase / Indoors (Orange)	27582	27583	37677	37676	37674	50746	27588
	Ground / Indoors (Green)	50258	50260	37677E	37676	37674	N/A	27588
	Phase & Ground / Outdoors UV Stable (Black)	38925	38926	38946	37676	37674	50746B	27588
Poly - carbonate 250°F	Phase & Ground / Indoors & Outdoors (Red)	32496	39225	32498	32499	32500	50747	27588
Wt lb (kg)		25.0 (11.34)	.81 lb/ft. (.112 kg/m)	30.0 (13.61)	1.5 (0.681)	4.0 (1.814)	45.0 (20.41)	1.0 (0.454)
Length ft (m)		30.0 (9.114)	*	30.0 (9.114)	/	/	30.0 (9.114)	/

♦ See Appendix IV Pgs. 63-64.



Conductor Bar



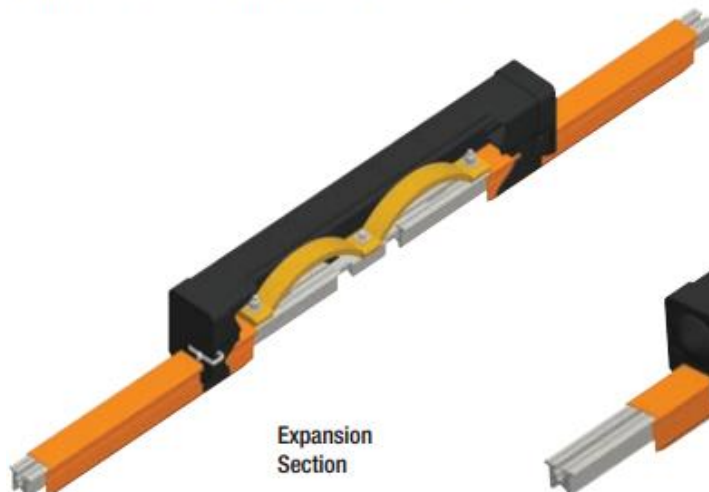
Dura-Coat Conductor Bar with Splice



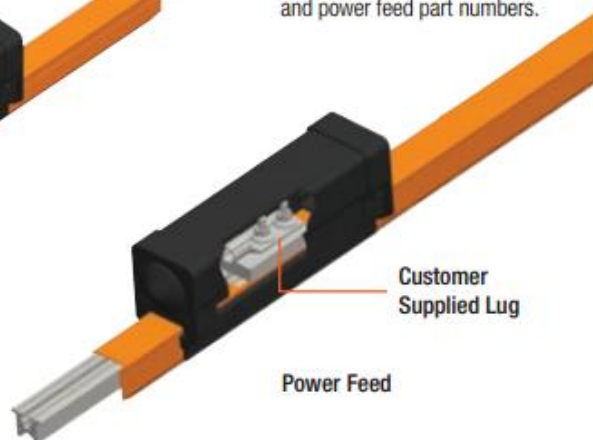
End Cover

Expansion Sections and Power Feed

Expansion Sections are required at all structural expansion joints and for all systems greater than 390 ft (118.87 m). See table above for expansion and power feed part numbers.



Expansion Section



Power Feed

Customer Supplied Lug

Hevi-Bar II - 700A Conductors

Standard Conductor Bar and Components

Type / Max Temp.	Use (Color)	Conductor Bar	Conductor Bar Cut Lgth (Specify 5 to 29 ft)	Expansion Section	Splice	Power Feed	Power Interrupting Section ♦	End Cover
PVC 160°F	Phase / Indoors (Orange)	24528	24529	24566	38115	38117	50748	50859
	Ground / Indoors (Green)	24528B	51369	24566B	38115	38117	N/A	50859
	Phase & Ground / Outdoors UV Stable (Black)	38934	38936	38949	38115	38117	50748B	50859
Poly Carbonate 250°F	Phase & Ground / Indoors & Outdoors (Red)	50733	51371	50738	38115C	50067	50752	50859
Fiberglass Reinforced Polyester 400°F	Phase & Ground / Indoors (Orange)	24554	24555	24567D	24558	24594	50754	24585
Wt lb (kg)		40.0 (18.14)	1.31 lb/ft (0.1811 kg/m)	50.0 (22.68)	3.0 (1.36)	5.0 (2.27)	70.0 (31.75)	2.0 (0.91)
Length ft (m)		30.0 (9.114)	*	15.0 (4.572)	/	/	30.0 (9.114)	/

♦ See Appendix IV Pgs. 63-64.



Conductor Bar



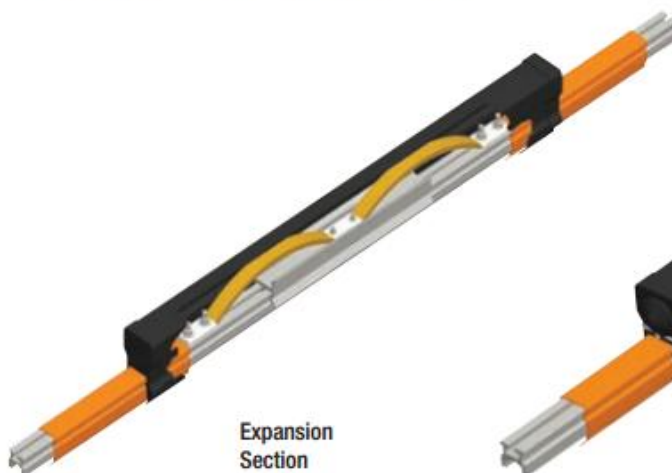
Dura-Coat Conductor Bar with Splice



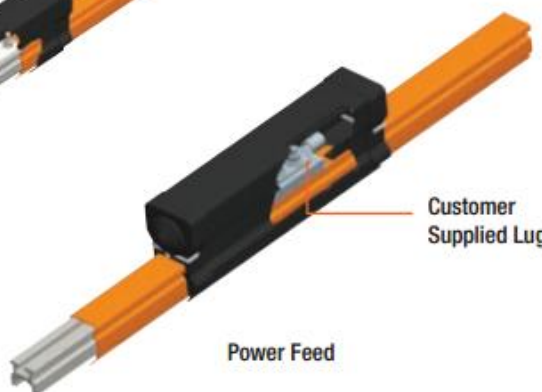
End Cover

Expansion Sections and Power Feed

Expansion Sections are required at all structural expansion joints and for all systems greater than 390 ft (118.87 m). See table above for expansion and power feed part numbers.



Expansion Section



Power Feed

Customer Supplied Lug

Hevi-Bar II - 1000A Conductors

Standard Conductor Bar and Components

Type / Max Temp.	Use (Color)	Conductor Bar	Conductor Bar Cut Lgth (Specify 5 to 29 ft)	Expansion Section	Splice	Power Feed	Power Interrupting Section ♦	End Cover
PVC 160° F	Phase / Indoors (Orange)	23500	23503	23512	37746	38184	50755	33796B
	Phase & Ground / Outdoors UV Stable (Black)	23500D	38938	23512C	37746	38184	50755B	33796B
Poly-carbonate 250°F	Phase & Ground / Indoors & Outdoors (Red)	31991	51408	50941	31964	38184D	50756	33796B
Fiberglass Reinforced Polyester 400°F	Phase & Ground / Indoors (Orange)	23508	23511	23514	23520	23530	50757	23523
Wt (lb)		85 (38.56)	2.8 lb/ft (.3871 kg/m)	70 (31.75)	3.5 (1.588)	6.5 (2.948)	105 (47.63)	1.5 (0.680)
Length (ft.)		30	-	20.0	/	/	30.0	/

♦ See Appendix IV Pg. 63-64.



Conductor Bar



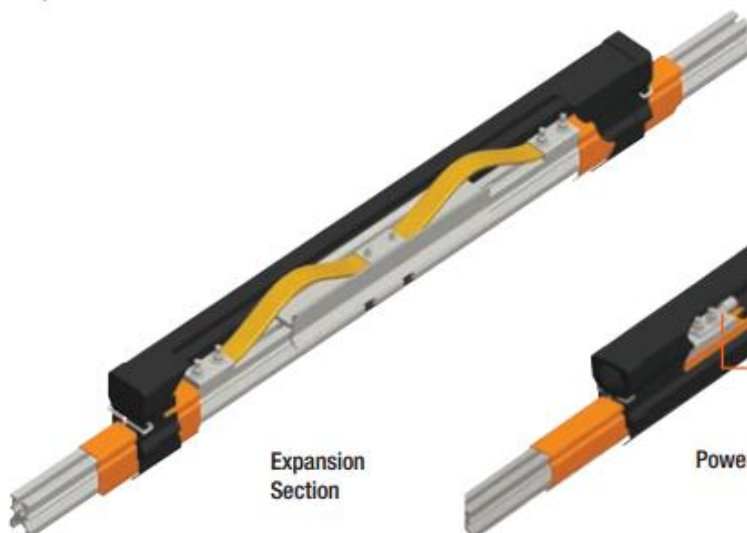
Dura-Coat Conductor Bar with Splice



End Cover

Expansion Sections and Power Feed

Expansion Sections are required at all structural expansion joints and for all systems greater than 390 ft (118.87 m). See table above for expansion and power feed part numbers.



Expansion Section



Power Feed

Customer Supplied Lug

Hevi-Bar II - 1500A Conductors

Standard Conductor Bar and Components

Type / Max Temp.	Use (Color)	Conductor Bar	Conductor Bar Cut Lgth (Specify 5 to 29 ft)	Expansion Section	Splice	Power Feed	Power Interrupting Section ♦	End Cover
PVC 160° F	Phase / Indoors (Orange)	24000	24003	32820	38968	50227	50760	33796B
	Phase & Ground / Outdoors UV Stable (Black)	24000C	38944	38952	38968	50227	50760B	33796B
Poly - carbonate 250° F	Phase & Ground / Indoors & Outdoors (Red)	39296	39295	39287	34802	50227C	50756	33796B
Wt lb (kg)		110 (49.90)	3.6 lb/ft (0.4977 kg/m)	88 (39.92)	4.0 (1.81)	130 (58.97)	130.0 (58.97)	1.5 (0.680)
Length ft (m)		30 (9.114)	-	20 (6.10)	/	/	30 (9.114)	/



Expansion Sections and Power Feed

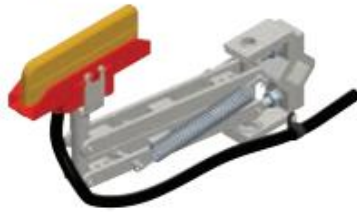
Expansion Sections are required at all structural expansion joints and for all systems greater than 390 ft (118.87 m). See table above for expansion and power feed part numbers.



Hevi-Bar II Collectors & Replacement Shoes

All collectors include long-wearing copper graphite shoes (in holders) and "pigtail" wiring as noted below. For recommendations about choosing collectors, see Appendix I Pgs. 57-60.

125A Single Collector



21" long pigtails, 8 AWG, are supplied on the collector. Customer supplied wiring connects to the collector pigtail with in-line connectors. **Used on 500A conductor bar only.**

TYPE	Part No.	Wt lb (kg)
Standard Collector with Shoe.	30388	3.37 (1.529)
DURA-COAT Collector with Shoe.	50205	3.87 (1.755)
Replacement Shoe for Standard or DURA-COAT	30516	1.00 (0.454)

250A Tandem Collector



21" long pigtails, 8 AWG, are supplied on the collector. Customer supplied wiring connects to the collector pigtail with in-line connectors. **Used on 500A conductor bar only.**

TYPE	Part No.	Wt lb (kg)
Standard Collector with Shoe.	30389	6.39 (2.898)
DURA-COAT Collector with Shoe.	39752	7.39 (3.352)
Replacement Shoe for Standard or DURA-COAT (Two required per collector)	30516	1.00 (.454)

200A Single Collector



42" long pigtails, 2 AWG, are supplied on the collector. Customer supplied wiring connects to the collector pigtail with in-line connectors. **Used on 700A - 1500A conductor bar only.** Note that the 300A version is the same as the 200A, except with an extra tension spring on the arm.

TYPE	Part No.	Wt lb (kg)
Standard Collector with Shoe.	24060	6.87 (3.116)
DURA-COAT Collector with Shoe.	51522	7.37 (3.343)
300A Standard Collector with Shoe.	24060Q	7.47 (3.388)
Replacement Shoe for Standard & DURA-COAT	11417X	0.38 (0.172)

400A Tandem Collector



42" long pigtails, 2 AWG, are supplied on the collector. Customer supplied wiring connects to the collector pigtail with in-line connectors. **Used on 700A - 1500A conductor bar only.** Note that the 600A version is the same as the 400A, except with one extra tension spring on each arm.

TYPE	Part No.	Wt lb (kg)
Standard Collector with Shoe.	24061	13.40 (6.078)
DURA-COAT Collector with Shoe.	39848	13.90 (6.305)
600A Standard Collector with Shoe.	24061B	14.10 (6.375)
Replacement Shoe for Standard & DURA-COAT (Two required per collector)	11417X	0.38 (0.172)