

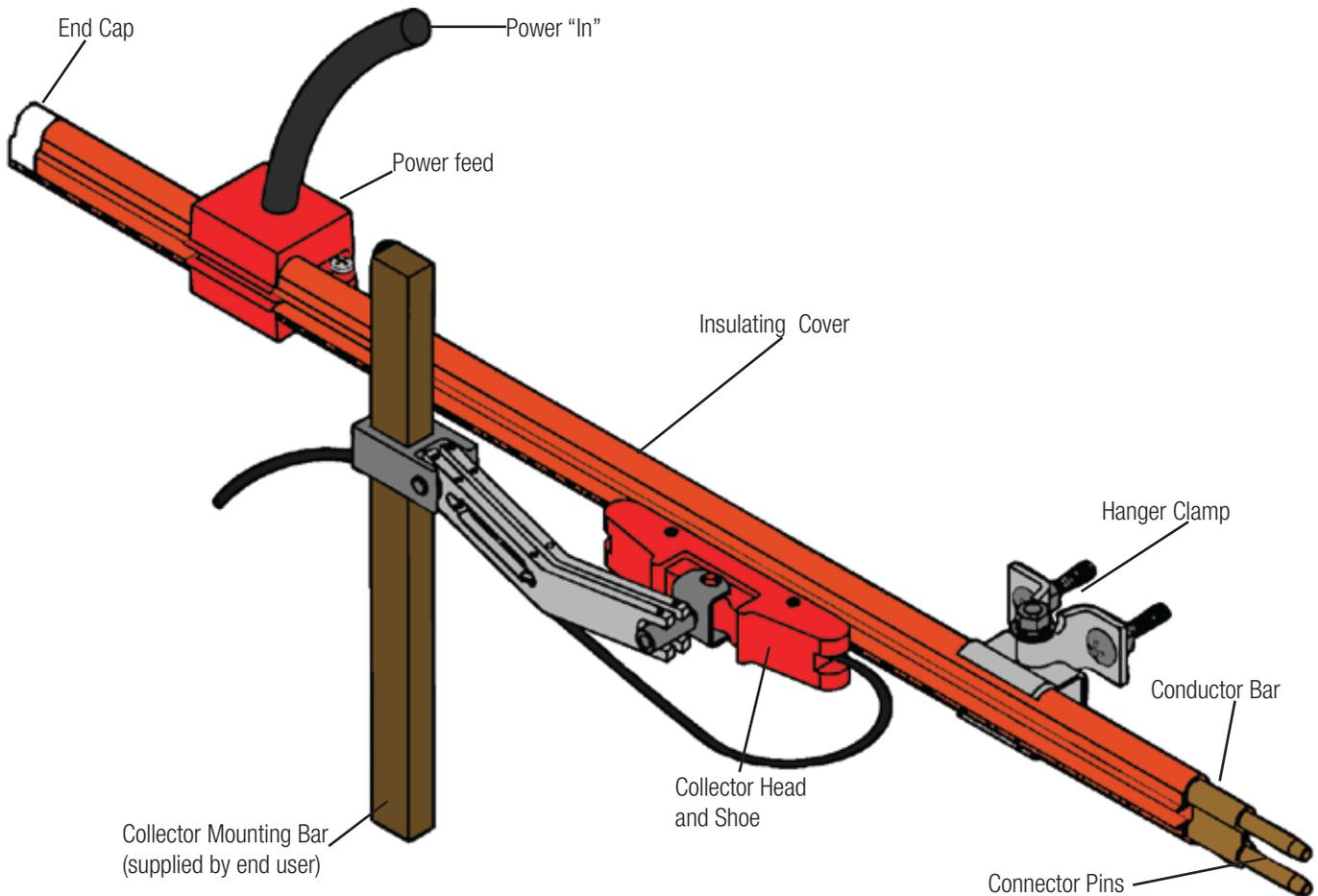
# Side Contact Design Features

Conductix-Wampfler Side Contact Conductor Bar is a variation of the 8-Bar system designed for lateral (side) entry of the collector. UL / CSA listed.



## Side Contact is Ideal When:

- There is insufficient room for standard "bottom entry" mounting
- Conductors must be more closely spaced than standard 8-Bar allows



## Component Descriptions

**Conductor Bar:** The supply of incoming power

**Power feed:** Attachment of incoming power

**Collector:** Collects the incoming power and transfers it to the moving machine

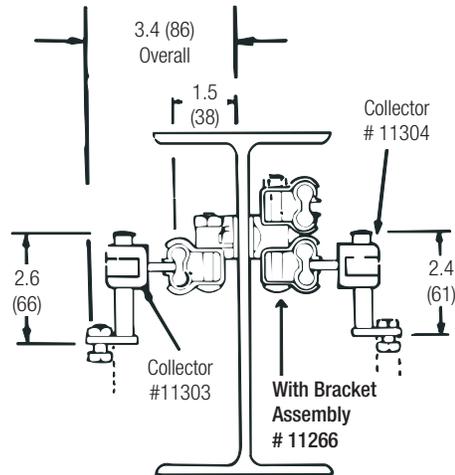
**Hangers:** Supports the conductor bar, may also be used as an anchor to direct movement due to expansion and contraction

**End Cover:** Safety protection at the end of conductor system

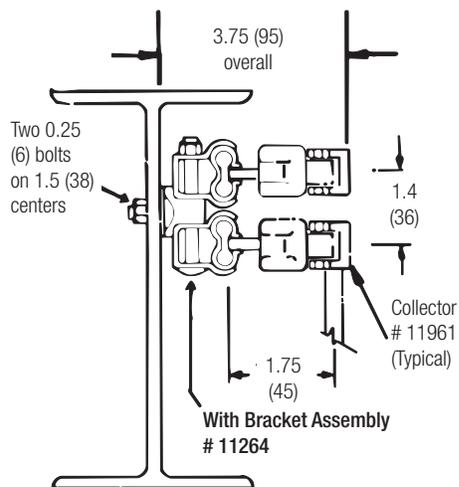
# Typical Side Contact Mounting Arrangements

Shown below are some typical mounting arrangements for Side Contact. Trolleys on which collectors are mounted must be stabilized, particularly in systems involving discontinuous circuits. One acceptable way is to use guide rollers on the edge of the track flange.

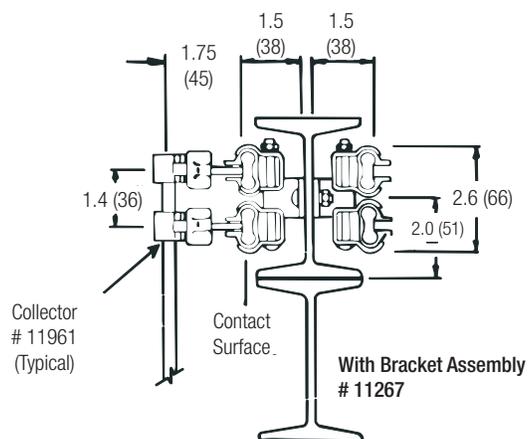
## One Conductor Left and Two Right



## Two Conductors on the Right



## Two Conductor on the Right, Two on the Left



# Side Contact Conductor Bar, Expansions, Power Feeds

Side Contact Conductor Bars come with cover and connector pins installed. Copper and Laminate Bars also come with Joint Keepers. Bars are available in 40A, 90A, 110A, 250A, and 350A capacities (@ 600 volts maximum). Expansion Sections are listed below. These are required to compensate for thermal expansion; every 350 feet (106.7m) for 40A, 90A, and 110A systems, or 250 feet (76.2m) for 250A, 350A, and 500A systems. Power Feeds bring outside power to the conductor bar.

Factory installed covers are available in:

- **Rigid PVC:** -10° F to 160° F (- 23.3° C to 71.1° C)
- **Medium Heat:** - 25° F To 250° F (- 31.7° C to 121.1° C)

## Stainless Steel, 40A



Item	Rigid PVC Cover		Medium Heat Cover	
	Part No.	Wt lb (kg)	Part No.	Wt lb (kg)
Conductor Bar, 10 ft (3.05m)	<b>24273</b>	7.0 ( 3.18)	<b>24298</b>	6.6 (2.99)
Conductor Bar, 5 ft (1.52m)	<b>24274</b>	3.5 (1.59)	<b>24299</b>	3.3 (1.50)
Expansion Section, 10 ft (3.05)	<b>24277</b>	10.0 (4.57)	<b>24302</b>	10.3 (4.67)
Power feed	<b>11289</b>	0.34 (0.15)	<b>11289</b>	0.34 (0.15)
End Cover	<b>11295</b>	0.03 (0.01)	<b>11295</b>	0.03 (0.01)

## Galvanized Steel, 90A



Item	Rigid PVC Cover		Medium Heat Cover	
	Part No.	Wt lb (kg)	Part No.	Wt lb (kg)
Conductor Bar, 10 ft (3.05m)	<b>24275</b>	4.5 (2.04)	<b>24300</b>	4.5 (2.04)
Conductor Bar, 5 ft (1.52m)	<b>24276</b>	3.5 (1.59)	<b>24301</b>	3.3 (1.59)
Expansion Section, 10 ft (3.05)	<b>24278</b>	6.7 (3.04)	<b>24303</b>	6.7 (3.04)
Power feed	<b>11289</b>	0.34 (0.15)	<b>11289</b>	0.34 (0.15)
End Cover	<b>24424</b>	0.03 (0.01)	<b>24424</b>	0.03 (0.01)

## Galvanized Steel, 110A



Item	Rigid PVC Cover		Medium Heat Cover	
	Part No.	Wt lb (kg)	Part No.	Wt lb (kg)
Conductor Bar, 10 ft (3.05m)	<b>11223</b>	7.0 ( 3.18)	<b>11239</b>	6.6 (2.99)
Conductor Bar, 5 ft (1.52m)	<b>11224</b>	3.5 (1.59)	<b>11240</b>	3.3 (1.50)
Expansion Section, 10 ft (3.05)	<b>11255</b>	10.0 (4.57)	<b>11259</b>	10.3 (4.67)
Power feed	<b>11289</b>	0.34 (0.15)	<b>11289</b>	0.34 (0.15)
End Cover	<b>11295</b>	0.03 (0.0)	<b>11295</b>	0.03 (0.01)

# Side Contact Conductor Bar, Expansions, Power Feeds

## Stainless Clad Copper 250A



Item	Rigid PVC Cover		Medium Heat Cover	
	Part No.	Wt lb (kg)	Part No.	Wt lb (kg)
Conductor Bar, 10 ft (3.05m)	<b>11227</b>	7.0 ( 3.175)	<b>11243</b>	6.6 (2.994)
Conductor Bar, 5 ft (1.52m)	<b>11228</b>	3.5 (1.588)	<b>11244</b>	3.3 (1.497)
Expansion Section, 10 ft (3.05)	<b>11256</b>	11.0 (4.990)	<b>11260</b>	10.3 (4.672)
Power feed	<b>11289</b>	0.34 (0.154)	<b>11289</b>	0.34 (0.154)
End Cover	<b>11295</b>	0.03 (0.014)	<b>11295</b>	0.03 (0.014)

## Copper Steel Laminate 250A



Item	Rigid PVC Cover		Medium Heat Cover	
	Part No.	Wt lb (kg)	Part No.	Wt lb (kg)
Conductor Bar, 10 ft (3.05m)	<b>11231</b>	7.0 ( 3.18)	<b>11247</b>	6.6 (2.99)
Conductor Bar, 5 ft (1.52m)	<b>11232</b>	3.5 (1.59)	<b>11248</b>	3.3 (1.50)
Expansion Section, 10 ft (3.05)	<b>11257</b>	11.0 (4.99)	<b>11261</b>	10.3 (4.67)
Power feed	<b>11289</b>	0.34 (0.15)	<b>11289</b>	0.34 (0.15)
End Cover	<b>11295</b>	0.03 (0.01)	<b>11295</b>	0.03 (0.01)

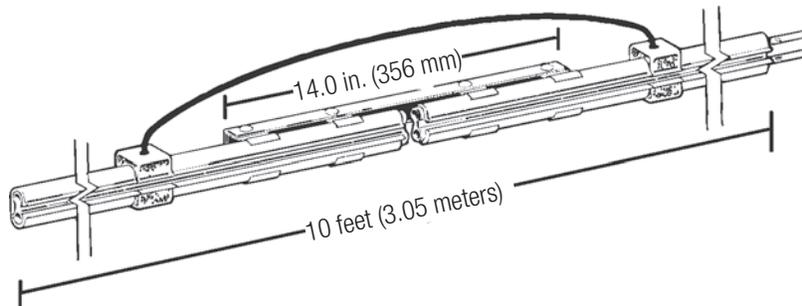
## Electrolytic Copper 350A



Item	Rigid PVC Cover		Medium Heat Cover	
	Part No.	Wt lb (kg)	Part No.	Wt lb (kg)
Conductor Bar, 10 ft (3.05m)	<b>11235</b>	7.0 ( 3.175)	<b>11251</b>	6.6 (2.994)
Conductor Bar, 5 ft (1.52m)	<b>11236</b>	3.5 (1.588)	<b>11252</b>	3.3 (1.497)
Expansion Section, 10 ft (3.05)	<b>11258</b>	11.0 (4.990)	<b>11262</b>	10.3 (4.672)
Power feed	<b>11289</b>	0.4 (0.122)	<b>11289</b>	0.4 (0.122)
End Cover	<b>11295</b>	0.03 (0.014)	<b>11295</b>	0.03 (0.014)

## Expansion Section

Expansion Sections compensate for the thermal expansion that occurs from a combination of ambient heat and electrical heat. Power feeds and flexible jumpers are factory installed to meet electrical and mechanical requirements of each system. Part numbers are located in the conductor tables - See Pgs. 34-35.



# Side Contact Connectors and Covers

## Connector Pins



Used to join the conductor bar together.

Description	Part No.	Wt lb (kg)
Galvanized steel for 110A	<b>11120</b>	0.8 (0.36)
Copper for 250 and 350A	<b>11121</b>	0.8 (0.36)
Galvanized steel for 90A	<b>21914</b>	0.8 (0.36)
Stainless steel for 40A	<b>24196</b>	0.8 (0.36)

## Insulating Cover



Available in PVC or Lexan cover. The cover is designed for indoor use.

Description	Part No.	Wt lb (kg)
Rigid PVC to 160° F	<b>34579</b>	1.5 (6.80)
Medium Heat to 250° F	<b>11294</b>	1.5 (6.80)

## End Cover



Used to close the end of the conductors to cover exposed conductor and avoid accidental contact.

Description	Part No.	Wt lb (kg)
For 40, 110, 250 and 350A	<b>11295</b>	0.03 (0.01)
For 90A	<b>24424</b>	0.03 (0.01)

# Side Contact Power Feed & Pick-up Guide

## Power feed

Fully insulated clamp is easily installed anywhere on the system for feeding power to the conductor bar.



11289 (shown with only half cover)

Description	Part No.	Wt lb (kg)
Complete Assembly, Clamp & Case	<b>11289</b>	0.34 (0.15)
Power feed case with hardware	<b>11290</b>	0.20 (0.09)
Clamp Assembly	<b>11291</b>	0.10 (0.05)

## Pick-up Guides

Used at the end of conductors to guide the re-engagement of the collectors on discontinuous circuits.

**Requires use of self-centering collectors, see Pg. 40-41.**



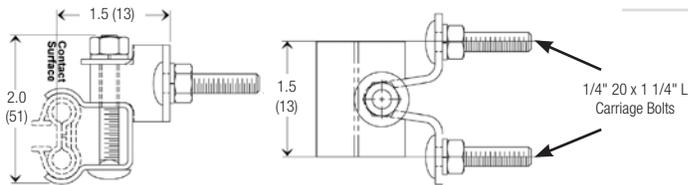
Description	Part No.	Wt lb (kg)
For all systems (except 90A)	<b>11292</b>	1.25 (0.57)

# Side Contact Hanger Brackets and Clamps

Provides a simple method for installing Side Contact Conductors on conveyors, monorails, bridges, crane runways and switches. These supports secure and separate the insulated conductors uniformly with a minimal amount of installation time. Hanger clamps are all stainless steel with 1/4" zinc plated hardware.

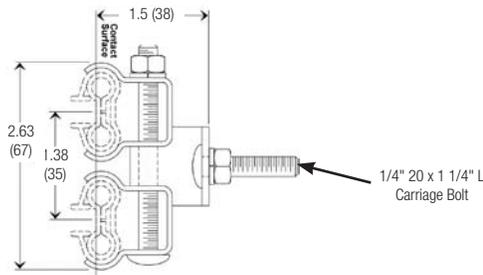
Consult Factory if you need a configurations not shown.

## Single Bar, One Side of Beam



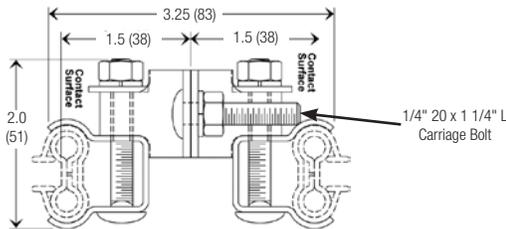
For	Part No.
One bar, one side of beam	11263

## Two Bars, One Side of Beam



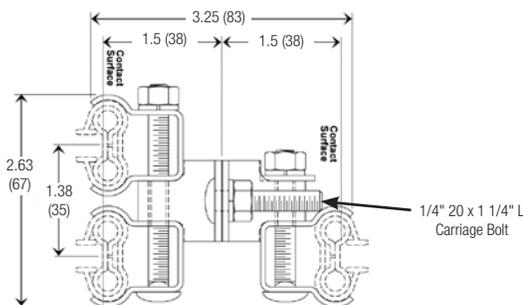
For	Part No.
Two bars, one side of beam	11264

## One Bar, Each Side of Beam



For	Part No.
One bar, each side of beam	11265

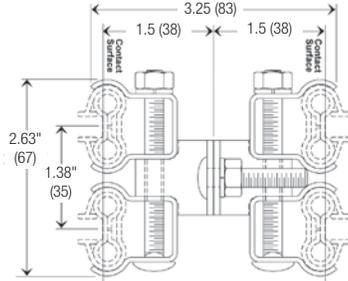
## Two Bars One Side of Beam, One on the Other



For	Part No.
Two bars one side of beam, one on the other	11266

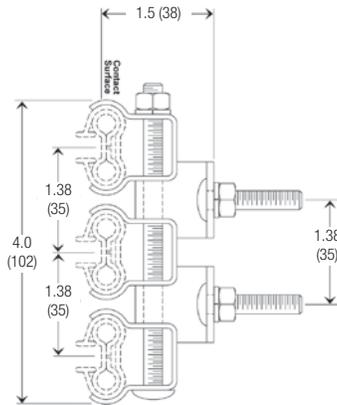
# Side Contact Hanger Brackets and Clamps

## Two Bars, On Each Side of Beam



For	Part No.
Two bars, each side of beam	<b>11267</b>

## Three Bars, On One Side of Beam



For	Part No.
Three bars on one side of beam	<b>31844</b>

## Single Conductor Hangers

Standard hanger spacing should every 4 feet for straight runs or every 3 feet for curves.



17690



27927

Description	Part No.
Stainless Steel hanger with 1/4" zinc plated hardware	<b>27927</b>
Stainless Steel hanger with 1/4" stainless steel hardware	<b>27926</b>
Stainless Steel hanger with insulator and 1/4" stainless steel hardware	<b>17690</b>

# Side Contact Collectors

Side Contact Collectors are available in numerous configurations to match the application. Note that collectors should not be used as power switching devices. The resultant arcing may cause rapid deterioration of both contact shoes and conductor bars. Ampere capacity of conductor bars, power feeds, jumpers etc., should be greater than or equal to that of the system. Consult factory for systems using tandem mounted collectors and special requirements. For mechanically discontinuous systems, only collectors designated as "self-centering" should be used.

Contact shoe pressure: Between 4 and 6 pounds (1.81 kg to 2.72 kg) for all collector styles.

## M-Head, L-Base Type, 40A



For conveyor, monorail systems, and crane bridges. Operates through curves at a minimum radii of 9.0 (228).

**Standard pigtail length: 15" (381 mm)**

Description	Part No.
Standard Collector, for continuous systems	11961
Self Centering Collector, for discontinuous systems that are equipped with pickup guide 11292	12295

## M-Head, L-Base Type, 80A



For conveyor, monorail systems, and crane bridges. Operates through curves at a minimum radii of 9.0 (228). Includes an additional pigtail for extra current capacity.

**Standard pigtail length: 15" (381 mm)**

Description	Part No.
Standard Collector, for continuous systems	11517
Self Centering Collector, for discontinuous systems that are equipped with pickup guide 11292	11518

## M-Head, H-Base Type, 40A



This rugged collector provides a long stroke for continuous systems where clearance is not restricted.

**Standard pigtail length: 15" (381 mm)**

Description	Part No.
Standard Collector, for continuous systems	12304
Same as 12304, except a counter weight is added for lateral mount	12306

# Side Contact Collectors

## M-Head, L-Base Type, Tandem 160A



For systems that require 160A capacity. Operates through curves to minimum radii of 24.0 (610). Has tandem collectors and additional pigtails for the added current capacity.

**Standard pigtail length: 15" (381 mm)**

Description	Part No.
Standard Collector, for continuous systems	<b>11519</b>
Self-centering tandem. For discontinued systems equipped with pickup guide 11292 that require 160A capacity.	<b>15046</b>

## M-Head, L-Base Type, Tandem 80A



Continuous systems that require 80A capacity. Operates through curves to minimum radii of 24.0 (610). Has tandem collectors.

**Standard pigtail length: 15" (381 mm)**

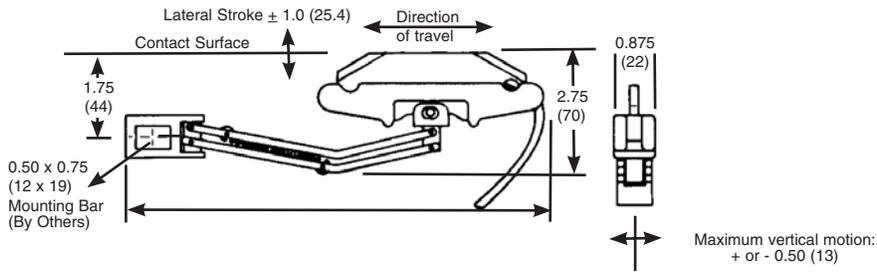
Description	Part No.
Standard Collector	<b>11955</b>
Self-centering tandem. For discontinued systems equipped with pickup guide 11292 that require 80A capacity.	<b>11954</b>

## Side Contact Collector Parts

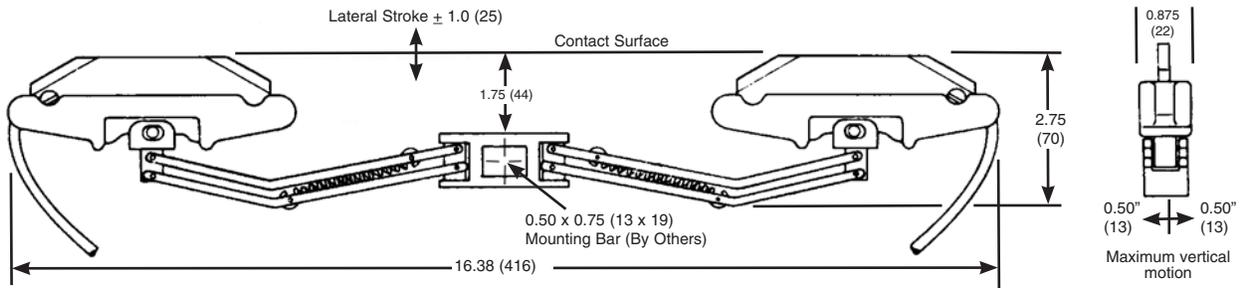
Description	Part No.
Case only, for M-Head, H-Base Collectors	<b>11307</b>
Case only, for M-Head, L-Base collectors	<b>11300</b>
Contact shoe (copper graphite) for all M-Head collectors	<b>14104</b>
Cast iron shoe	<b>14135</b>
Head assembly for M-Head, H-Base collectors	<b>12296</b>
Head assembly for M-Head, L-Base collectors	<b>11930</b>

# Side Contact Collector Parts and Dimensions

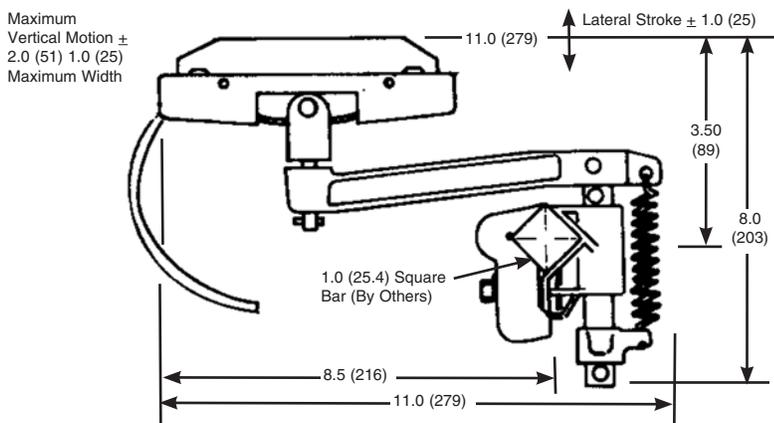
## M-Head, L-Base Collectors (11961 shown)



## M-Head, L-Base Collectors, Tandem (11955 shown)



## M-Head, H-Base Collectors (12304 shown)



# Side Contact Slip Rings & Curves

## Curves

Side Contact can be set up to handle curves, horizontally or vertically, with standard 6.0 (152) tangents on each end. The systems are specially designed for curves, switches, interlocks, gaps, and continuous control circuits. They are readily adaptable to most operating conditions. Both conductor bar and insulated cover are sufficiently flexible to permit bending to any desired radius up to the noted minimums. Hanger spacing is every 3 feet (0.91 meters) on curves. Maximum bar length is 10 feet (3.05 meters). Information required for curves are:

- Radius for each conductor bar
- Angle
- Inside or outside contact
- Tangents if other than 6" standard.

Conductor Type	Cover	Current Cap. (Amps)	Min. Radius	Part No.
Galvanized Steel	PVC (standard heat)	110	9.0 (229)	<b>11226</b>
Stainless Clad Copper Laminate	PVC (standard heat)	250	9.0 (229)	<b>11230</b>
Copper Steel Laminate	PVC (standard heat)	250	9.0 (229)	<b>11234</b>
Rolled Copper	PVC (standard heat)	350	9.0 (229)	<b>11238</b>
Galvanized Steel	Lexan (medium heat)	110	57.0 (1448)	<b>11242</b>
Stainless Clad Copper Laminate	Lexan (medium heat)	250	57.0 (1448)	<b>11246</b>
Copper Steel Laminate	Lexan (medium heat)	250	57.0 (1448)	<b>11250</b>
Rolled Copper	Lexan (medium heat)	350	57.0 (1448)	<b>11254</b>

## Slip Rings, PVC Standard Heat Covers

Conductor Type	Current Cap. (Amps)	Radius Range - in. (mm)	Pieces	Part No.
Galvanized Steel	110	9.0 to 34.0 (229 to 864)	2-180 <sup>0</sup> pieces	<b>23642</b>
Stainless Clad Copper Laminate	250	9.0 to 34.0 (229 to 864)	2-180 <sup>0</sup> pieces	<b>23643</b>
Copper Steel Laminate	250	9.0 to 34.0 (229 to 864)	2-180 <sup>0</sup> pieces	<b>23644</b>
Rolled Copper	350	9.0 to 34.0 (229 to 864)	2-180 <sup>0</sup> pieces	<b>23645</b>
Galvanized Steel	110	34.5 to 51.0 (876 to 1295)	3-120 <sup>0</sup> pieces	<b>23646</b>
Stainless Clad Copper Laminate	250	34.5 to 51.0 (876 to 1295)	3-120 <sup>0</sup> pieces	<b>23647</b>
Copper Steel Laminate	250	34.5 to 51.0 (876 to 1295)	3-120 <sup>0</sup> pieces	<b>23648</b>
Rolled Copper	350	34.5 to 51.0 (876 to 1295)	3-120 <sup>0</sup> pieces	<b>23649</b>
Galvanized Steel	110	51.1 to 69.0 (1298 to 1753)	4-90 <sup>0</sup> pieces	<b>23650</b>
Stainless Clad Copper Laminate	250	51.1 to 69.0 (1298 to 1753)	4-90 <sup>0</sup> pieces	<b>23651</b>
Copper Steel Laminate	250	51.1 to 69.0 (1298 to 1753)	4-90 <sup>0</sup> pieces	<b>23652</b>
Rolled Copper	350	51.1 to 69.0 (1298 to 1753)	4-90 <sup>0</sup> pieces	<b>23653</b>