



Note: Type 5-SCC/1600 also available, c/w 4 carbon brushes



STEEL-COPPERHEAD RAILS 5.2

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TYPE	COPPER CROSS SECTION Sq mm	STEEL CROSS SECTION Sq mm	EQUIVAL TOTAL COPPER CON- DUCTOR Sq mm	H mm	a mm	b mm	WEIGHT Kg/m	MAX CONTIN - UOUS AMPS
5-RC20/ 14	14	150	36	31	6.5	20	1.24	220
5-RC20/ 25	25	150	47	33	8	20	1.34	256
5-RC20/ 50	50	150	72	34	10	20	1.57	327
5-RC20/100	100	150	122	38.5	12	20	2.02	444

Standard lengths: 7m

Main application: Conductor system for hoists and monorails, downshop and cross travel supply for lightcranes.

DD1. DD and DA

Best applicable collectors:

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	_	,						
TYPE	COPPER	STEEL	EQUIVAL	Н	а	b	WEIGHT	MAX
	CROSS	CROSS	TOTAL	mm	mm	mm	Kg/m	CONTIN -
	SECTION	SECTION	COPPER					UOUS
	Sq mm	Sq mm	CON-					AMPS
			DUCTOR					
			Sq mm					
5-RC35/ 30	30	265	69	32	14.2	35	2.34	320
5-RC35/ 50	50	265	89	33.1′	4.6	35	2.52	410
5-RC 35/100	100	265	139	36.0	15.3	35	2.97	529
5-RC 35/150	150	265	189	38.3	17.3	35	3.42	632
5-RC 35/200	200	265	239	40.8	17.3	35	3.87	724

Standard lengths:

7m Main application:

Conductor system for heavy monorails, down-shop and cross travel supply for medium duty cranes.

Best applicable collectors:

5-SCC/100,5-SCC/200,5-SCC/400,5-SCC/800

		[TYPE	COPPER	STEEL	EQUIVAL	н	а	b	WEIGHT	MAX
				CROSS	CROSS	TOTAL	mm	mm	mm	Kg/m	CONTIN -
				SECTION	SECTION	COPPER					UOUS
				Sq mm	Sq mm	CON-					AMPS
< a	→					DUCTOR					
	XXX 1	τ.				Sq mm					
			5-RC45/ 50	50	355	102	43.11	4.6	45	3.23	495
		ĺ	5-RC45/100	100	355	152	46.0 ⁻	15.3	45	3.68	620
× /	K -	ĺ	5-RC45/150	150	355	202	48.3 ⁻	17.3	45	4.13	728
- H		[5-RC45/200	200	355	252	50.8	17.3	45	4.58	826
И		[5-RC45/300	300	355	452	56.3	17.6	45	5.48	1000
- 14		н	5-RC45/400	400	455	452	59.3 ⁻	19.6	45	6.38	1156
И		[5-RC45/500	500	355	552	64.3 ⁻	19.6	45	7.28	1299
Ю		[5-RC45/600	600	355	652	65.02	23.2	45	8.18	1432
Å		S Ma	Standard ler	ngths: 7i on: Dow	m n-shop ar	nd cross tr	avel	supr	olv fo	r heavy	
-//	7772	77		CI	ranes, loa	ding bridg	es, c	okin	g ma	ichinery, i	rapid
			3	tr	ansit syst	ems etc.	, -		0		
ь	Best a	pplica	ble collecto	rs: 5-S	CC/100,5	-SCC/200	,5-S	CC/4	00,5	-SCC/80	0

5.3 COPPERHEAD RAIL ACCESSORIES

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Expansion joint gap = 19mm @ 25° C

A	->
A	

PART NUMBER	А	В	С	D	E	F	Noof					
							Leaves					
5-XJ35/50	240	30	160	30	13	43	4					
5-XJ35/100	240	30	160	30	13	43	8					
5-XJ35/150	240	30	160	30	13	43	13					
5-XJ35/200	240	30	160	30	13	43	17					
5-XJ45/50	240	30	160	30	18	50	8					
5-XJ45/100	240	30	160	30	18	50	8					
5-XJ45/150	240	30	160	30	18	50	8					
5-XJ45/200	240	30	160	30	18	50	17					
5-XJ45/300	240	30	160	30	18	50	17					
5-XJ45/400	240	30	160	30	18	50	17					
5-XJ45/500	240	30	160	30	18	50	17					
5-XJ45/600	240	30	160	30	18	50	50					
5-XJ45/800	240	30	160	30	18	50	50					
5-XJ45/1600	240	30	160	30	18	50	50					

EXPANSION SECTION

С

D A

С

RIGID JOINTS											
PART NUMBER	A	В	С	D	Н	1					
5-RJ20/14-100/4	100	12	20	35	26	4					
5-RJ35/30-200/6	190	15	30	40	25	8					
5-RJ45/50-200/6	190	15	30	40	33	7.5					

FEEDER CLAMP											
PART NUMBER	A	В	С	D							
5-FC35/30-300	61	30	43	23.5							
5-FC45/50-200	60	30	40	35							
5-FC45/300-800	60	30	40	35							

LOCATINGCLAMPS										
PART NUMBER	A	В	С							
5-LCP20	18	44	43							
5-LCP35	18	44	40							
5-LCP45	18	44	40							

5.3 COPPERHEAD RAIL ACCESSORIES

5-IGP20

5-IGP35 and 5-IGP45

Earth Rail Support 5-IGP35E 5-IGP45E

INSULATORS											
PART NUMBER	Α	В	С	D	Е	F	G				
5-IGP20	22	50	32	69	94	163	M12				
5-IGP35	37	73	80	55	90	180	M16				
5-IGP45	54	87	80	55	90	180	M16				

High heat to 550°C ceramic insulators											
5-IGP35HT	37	73	80	55	90	180					
5-IGP45HT	54	87	80	55	90	180					

HOSPITAL BAY INSULATOR													
Part Number	Α	В	С	D	Е	F	G	Н	I	J	K	L	М
5-HBI/35	190	70	100	120	80	36	55	35	120	62	M10	M16	M8
5-HBI/45	200	76	105	130	80	32	50	40		74	M10	M16	M10

Rail gap = 10 mm

5.4 INSTALLATION OF COPPERHEAD RAIL SYSTEM

Expansion Gap Calculation

The chart shows orientation lines for the different conductor rails, considering 42m expansion joint intervals. For gap setting move the orientation line in parallel up to the point presenting the anticipated maximum ambient temperature. Then connect point of actual ambient temperature during installation to the right until intersecting with the orientation line. Follow the vertical axis downward to read the air gap dimension in mm.

 Install feeder clamps at feed points. Bolt to web of rail and braze to copperhead. (For improved conductivity). For short systems centerfeed power supply is recommended.