

导管式滑触线

POWERRAIL ENCLOSED CONDUCTOR SYSTEMS



产品概述

导管式滑触线是一款具有防意外冲击危害功能的滑线。室内外均可使用。其工程塑料绝缘外壳可装入不同截面形状的铜导线，其许用电流值为 35A 至 240A。集电器的运行是由外壳引导的，主要是通过带弹簧的碳刷来传送。

配套的橡胶防尘条能有效提高滑线的 IP 防护等级，防护等级最高可达 IP 43。

该系列滑触线为 3 极 -16 极装置。56 系列为 3 极或 4 极装置。

HFP 由铜排和螺钉式接头（或铜排折弯）由厂家事先组装在一起，其许用电流值为 35A 至 240A。适合一般环境下使用。如采用特殊导管，则可满足高温环境或低温环境下使用。

HFP-R 型 R 型为弧型滑线，可制成 R≥800mm 的弧型滑线。通过以下认证：CCC、ISO9001 和 CE 认证。

General

Powerail Enclosed conductor rail system is a powerail, protected from contact (IP 23), For indoor and outdoor plants. They are conductor lines in a rigid green PVC housing with different copper cross sections for rated currents of 35 - 240A. The current collectors, running in ball bearings, are guided by the housing.

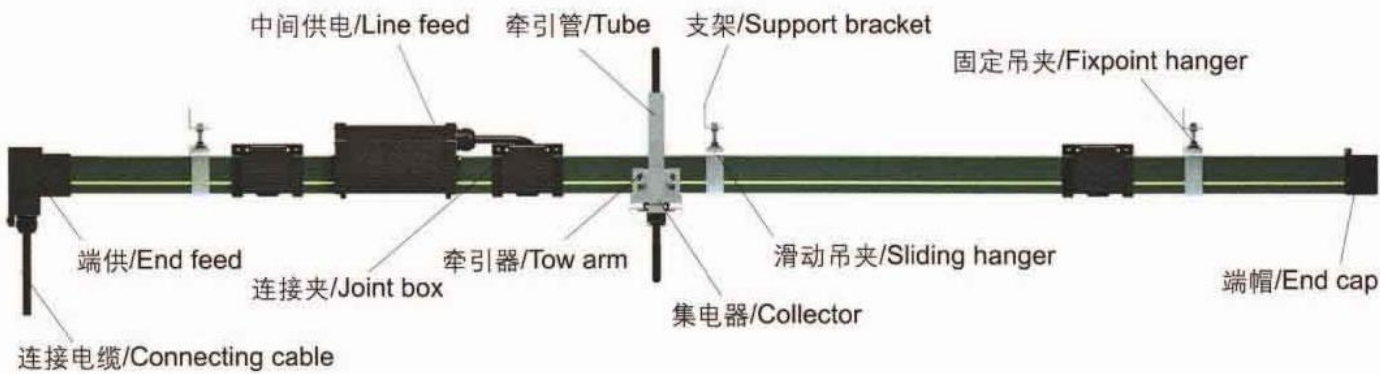
The main is transferred by spring-stored carbon brushes.

Type HFP-P: not include Sealing strip, with factory-mounted flat copper band and bolted-operated plug connectors .

Type HFP-R: Curves for R≥ 800mm, with factory-mounted flat copper band and screw connectors.

Approved and listed by:CCC, ISO9001 and CE.

系统图/System photo



技术参数/Technical data

电气参数/Electrical properties:		机械参数/Mechanical properties:	
最大电流/max.current	见第11页/see page 11	弯曲强度/Flexible strength	75N/mm ² ±10%
最大电压/max.voltage	600V	抗张强度/Tensile strength	40N/mm ² ±10%
绝缘强度/Dielectric strength	30-40KV/mm	温度范围/Temperature range:	
特殊电阻/Spec.resistance	5 × 10 ¹⁵ Ohm×cm	标准导管/Standard Housing	-30℃ up to +70℃
表面电阻/Surface resistivity	10 ¹³ Ohm×cm	高温导管/High Temp. Housing	-20℃ up to +115℃
漏电阻/Leakage resistance	CTI600-2,7	低温导管/Low Temp. Housing	-40℃ up to +80℃
燃烧性/Combustibility:			
阻燃性/flame retardant	B1级-无火焰微粒, 自熄		
自动熄灭/self extinguishing	class B 1-no flaming particles,self-extinguishing		
抗化学性能/Resistance to chemicals: +45℃			
汽油/Gasoline		50%硫酸/Sulphuric acid 50 %	
矿物油/Mineral Oil		腐蚀性苏打溶液25%和50%/Caustic soda 25 % & 50 %	
润滑油/Grease		浓缩氯化氢/Hydro-chloric acid, concentrated	

导管

工程塑料外壳, 3-4 极滑线。

标准长度 4 米, 也可以选择其他不超过 6 米的长度。

零线位置采用国际颜色代码黄色来标识。

集电器和外壳的设计可以防止相线与零线倒置。

连接夹

塑料连接夹, 啮合紧密。

供电点

中间供电或端部供电点。

端帽

1 路滑线末端使用 1 个端帽, 起保护作用。

吊夹

可提供将滑线固定在起重机行车大梁上的标准支架。可使用滑动吊夹和固定吊夹。标准间距为 1200mm。

膨胀节

膨胀节用于填补铝基外壳和铜导线之间膨胀差。膨胀节不会中断电流传输。

当位于供电点、弯段、道岔或其他固定点间的滑线段距离大于 20m 时使用膨胀节。每隔 100m 安装一个膨胀节。

防冷凝段

防冷凝段用于防止从室内到室外的滑线遇冷收缩。保障滑线系统供电不中断。

供电工作段, 道岔

滑线接触段及道岔应用请查看第 13、14 页。

分段

滑线间隔气隙为 5mm, 保证集电器能通过该间隙。如用于电源线, 也可用于绝缘片 35mm。在此情况下, 绝缘片长于碳刷且每个滑线段可独立供电, 例如: 用于控制线。

集电器

集电器是由可防撞击的塑料件和防生锈的金属部分制造而成, 质地较轻。集电器弹簧能够确保碳刷保持良好可靠的接触。集电器还包括连接电缆或端部接线盒以及铰链式或可变形的牵引臂。双集电器可用于导向装置或更高电流量的设备。

Housing

Color green, plastic housing for 3-4 conductors. Standard section 4 m.

Other sections are available.

The ground conductor is identified by international color code.

Phase reversing prevented by design of the collector and housing.

Couplings

Through plastic joint caps.

Feed Sets

Line feeds or end feeds

End caps

The open ends of the powerail are closed by end caps for HFF.

Hangers

Standard brackets for powerail attachment to crane girders are available.

Powerail with sliding and fixpoint hangers.

Standard distance between suspension points for indoor and outdoor installations : 1200 mm.

Expansion during temperature fluctuation

The Expansion sections are required to compensate the different expansions between copper conductors and steel- or concrete structures, in varying temperatures without interrupting electrical power. Expansion joints are used when the Powerail length between feeds, curves, switches or other fix points is exceeding 20 m. Install one expansion joint every 100m.

Anti-condensation sections

These sections are used for transfer of the Powerail to outdoor areas to avoid condensation. The Powerail is not separated electrically

Contact sections and switches

Powerail for working areas and transfer applications see page 13 and 14.

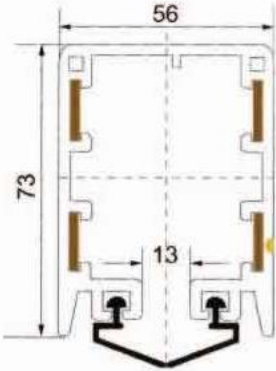
Sectionalizing

Available as air gap version (5 mm), where the collector carbon bridges the gap, e. g. for mains. Also available as insulating piece version (35 mm). In this case the insulating piece is longer than the carbon and each Powerail section can be separated electrically, e.g. for control.

Collectors

The current collectors are made of re-inforced polyester fiberglass, for high strength and light weight. Spring loaded carbon brushes maintain uniform contact. Connecting cables and hinged or flexible towing arms included. Double collectors for transfer applications and higher amperage.

型号 · 技术参数 · 产品编码/TYPES · TECHNICAL DATA · ORDER NUMBERS



滑线编码/Conductor code

HFP56-4-n/m

HFP56 = 多极导管式滑线代号/powerail enclosed conductor

4= 极数/poles

n= 单相横截面积/conductor cross section(mm²)

m= 额定载流量/continuous ampere capacity

单相铜排宽度/Width for copper

① = 14.5 mm

② = 17.6 mm

③ = 21.0 mm

长度/Length

标准长度为4m,也可提供其它不超过6米的长度.
4m is standard length,other lengths are available,but not be exceeding 6 m.

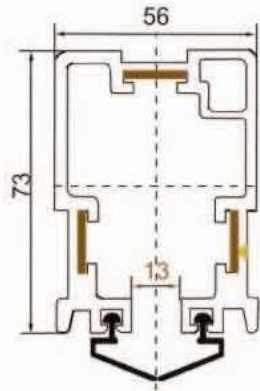
弧线段/Curves

最小半径800mm.min.R=0.8m

支架间距/Support spacing

直线段1.2m,for straight runs 1.2m.

型号 Type	极数 Poles	单相横截面积(mm ²) Conductor cross section	额定载流量(A) Max. current	电气间隙(mm) Leakage-distance	额定电压(V) max.Voltage	电阻(Ω/km) Resistance	产品编码 Order-NO.
HFP56-4-8/35①	4	8	35	35	600	1.944	560814
HFP56-4-10/50①	4	10	50	35	600	1.656	561014
HFP56-4-12/65①	4	12	65	35	600	1.321	561214
HFP56-4-15/80①	4	15	80	35	600	1.137	561514
HFP56-4-20/100②	4	20	100	33	600	1.011	562024
HFP56-4-25/120②	4	25	120	33	600	0.713	562524
HFP56-4-35/140②	4	35	140	33	600	0.522	563524
HFP56-4-50/170②	4	50	170	33	600	0.337	565024
HFP56-4-70/210②	4	70	210	33	600	0.265	567024
HFP56-4-80/240③	4	80	240	30	600	0.223	568024



滑线编码/Conductor code

HFP56-3-n/m

HFP56 = 多极导管式滑线代号/powerail enclosed conductor

3= 极数/poles

n= 单相横截面积/conductor cross section(mm²)

m= 额定载流量/continuous ampere capacity

单相铜排宽度/Width for copper

① = 14.5 mm

② = 17.6 mm

长度/Length

标准长度为4m,也可提供其它不超过6米的长度.
4m is standard length,other lengths are available,but not be exceeding 6 m.

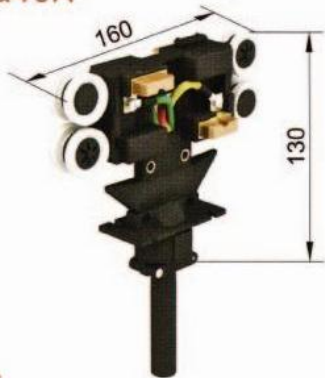
支架间距/Support spacing

直线段1.2m,for straight runs 1.2m.

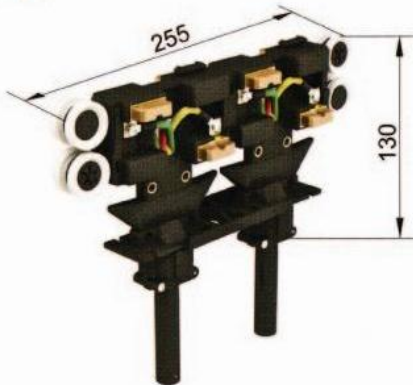
型号 Type	极数 Poles	单相横截面积(mm ²) Conductor cross section	额定载流量(A) Max. current	电气间隙(mm) Leakage-distance	额定电压(V) max.Voltage	电阻(Ω/km) Resistance	产品编码 Order-NO.
HFP56-3-10/50①	3	10	50	45	600	1.656	561013
HFP56-3-15/80①	3	15	80	45	600	1.137	561513
HFP56-3-20/100②	3	20	100	45	600	1.011	562023
HFP56-3-25/120②	3	25	120	45	600	0.713	562523
HFP56-3-35/140②	3	35	140	45	600	0.522	563523
HFP56-3-50/170②	3	50	170	45	600	0.337	565023

4极集电器/Collector for 4 poles powerail

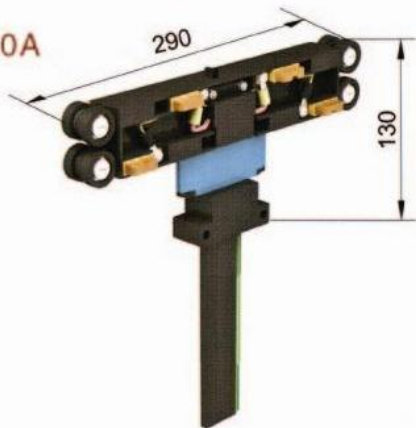
25A&40A



60A*

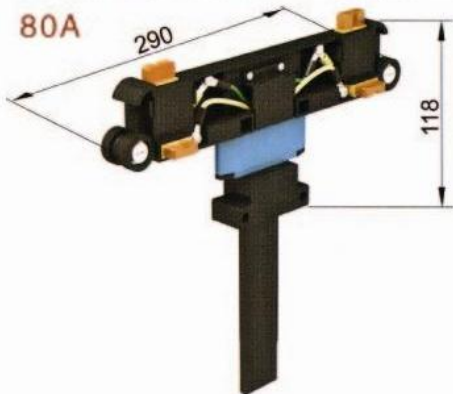


80A



3极集电器/Collector for 3 poles powerail

80A



25A和40A集电器适用于R>800的弧形滑线。
Collector 25A & 40A are used for curves (R>800).

60A集电器适用于R>1600的弧形滑线。
Collector 60A are used for curves (R>1600).

25A集电器适合于35A-50A的滑线。 Collector 25A is used for 35A-50A.
40A集电器适合于65A-120A的滑线。 Collector 40A is used for 65A-120A.
最高限速为150 m/min。 max. speed 150 m/min.
在带有密封条的滑线运行时最高限速为110 m/min。
Also for powerails with sealing strip up to 110 m/ min.

连接电缆/Connecting cable

25 A, 2.5mm² /core × 4
40 A, 4.0 mm²/core × 3 + 2.5 mm²/core × 1
60 A, 4.0 mm²/core × 6 + 2.5 mm²/core × 2
0.8 m长, 可提供更长的电缆。 0.8 m long, longer cables on request.

*可3只或3只以上并联使用, 功率最大可达120A, 但仅限于直线段使用。
3 pcs or more collcctors could parallel connect,but only for straight powerail

型号/Type	极数/poles	额定功率/Power rating	产品编码/Order-No.
56JD-4/25	4	25 A	563125
56JD-4/40	4	40 A	563140
56JD-4/60	4	60 A	563160

80A集电器适合于140A-240A的滑线。 Collector 80A is used for 140A-240A.
最高限速为135 m/min。 max. speed 135 m/min.
在带有密封条的滑线运行时最高限速为100 m/min。
Also for powerails with sealing strip up to 100 m/ min.

连接电缆/Connecting cable

80 A, (6.0 mm² × 2/core) × 3 + (3.0 mm² × 2/core) × 1
1 m长, 可提供更长的电缆。 1 m long, longer cables on request.

型号/Type	极数/poles	额定功率/Power rating	产品编码/Order-No.
56JD-4/80	4	80 A	563180

80A集电器滑线适用于R>800的弧形滑线。 Collector 80A are used for curves (R>2500).
80A集电器适合于140A-240A的滑线。 Collector 80A is used for 140A-240A.
最高限速为135 m/min。 max. speed 135 m/min.
在带有密封条的滑线运行时最高限速为100 m/min。
Also for powerails with sealing strip up to 100 m/ min.

型号/Type	极数/poles	额定功率/Power rating	产品编码/Order-No.
56JD-4/40	3	80 A	568033

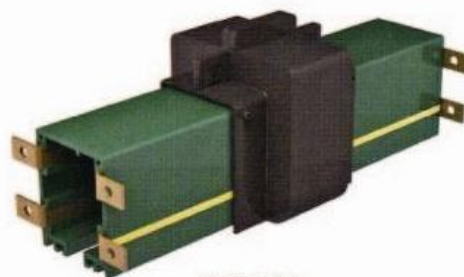
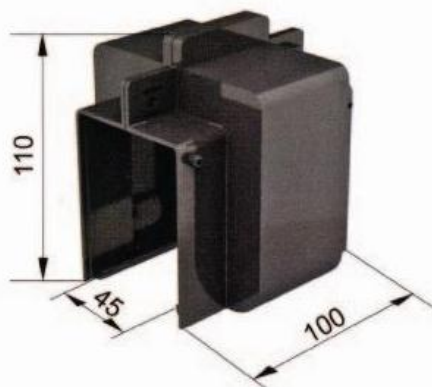
连接电缆/Connecting cable

80 A, (6.0 mm² × 2/core) × 3
1 m长, 可提供更长的电缆。 1 m long, longer cables on request.

连接夹·吊夹/JOINTING BOX · HANGERS

连接夹/JOINTING BOX

适合于铜排弯连接系统/be used with screw joints



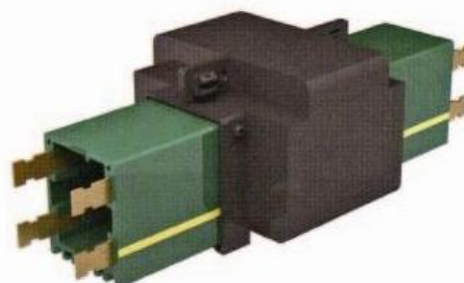
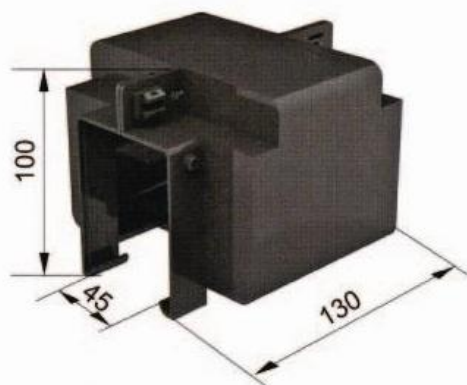
安装示例
ready installed

型号/Type	材质/Material	产品编码/Order-No.
56LJ/45	ABS	563401

带有自锁功能，安装简便，啮合紧密。
self locking, and installed is very easy.

连接夹/JOINTING BOX

适合于带螺钉铜接头的滑线系统/be used with bolted joints



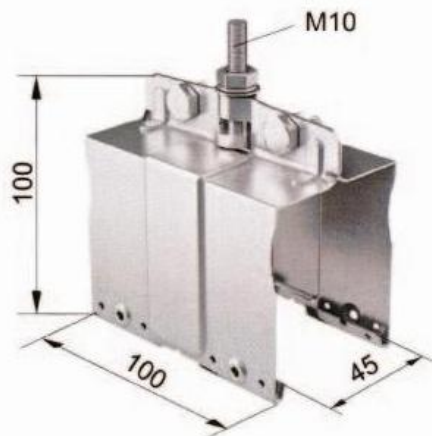
安装示例
ready installed

型号/Type	材质/Material	产品编码/Order-No.
56LJ-5	ABS	563405

带有自锁功能，安装简便，啮合紧密。
self locking, and installed is very easy.

定位夹/ANCHOR HANGER*

适合于铜排整穿的滑线系统/be used without any joints system



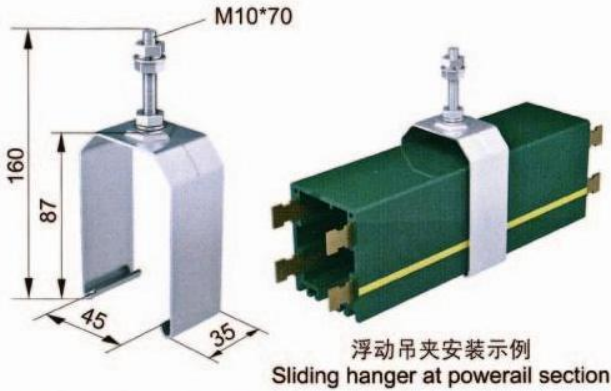
安装示例
ready installed

型号/Type	材质/Material	产品编码/Order-No.
56LJ-5	镀锌钢/galvanized	563408

* 可做连接夹使用 could be used for jointing box

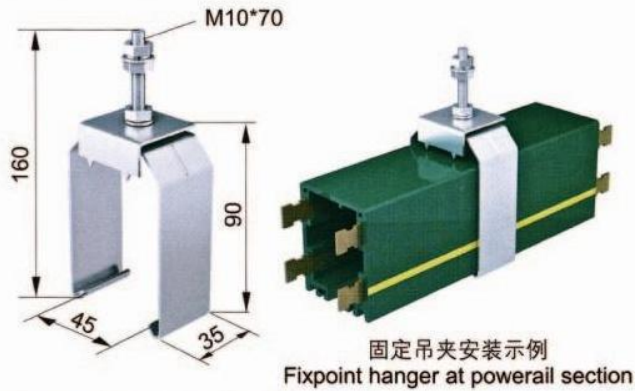
吊夹/HANGERS

浮动吊夹/Sliding hanger



型号/Type	材质/Material	产品编码/Order-No.
56DJ-2	镀锌钢/galvanized	563911

固定吊夹/Fixpoint hanger



型号/Type	材质/Material	产品编码/Order-No.
56DJ-1	镀锌钢/galvanized	563901

螺钉式直接头、接插式接头/WITH BOLTED JOINTS & PLUG-IN JOINTS



型号/Type	材质/Material	产品编码/Order-No.
56JT-80A	外壳镀锌钢， 接触片紫铜 galvanized&copper	560001
56JT-120A		560002
56JT-140A		560003
56JT-170A		560005
56JT-210A		560006
56JT-240A		560008



螺钉式接头
Bolted joints

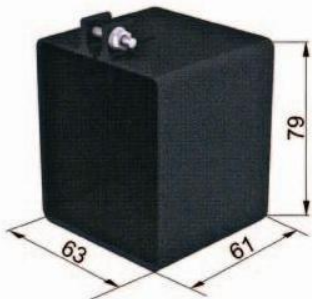


接插式接头
Plug-in joints

安装示例
ready installed

注意！
拧紧接头上的固定螺丝时，最多不能超过2Nm的力矩，以避免损坏接头帽口。
Caution!
Tighten the setscrews with max.2Nm to avoid deforming the clip of the bolted joint

端帽/END CAP



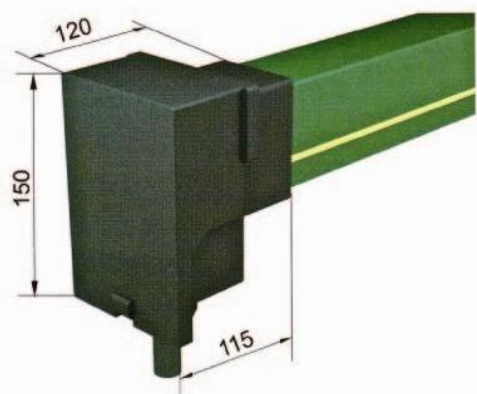
安装在整条滑线系统的左端或右端。
Left and right version

端帽安装示例
End cap ready installed

型号/Type	材质/Material	产品编码/Order-No.
56DM	ABS	563701

端部供电/End feed

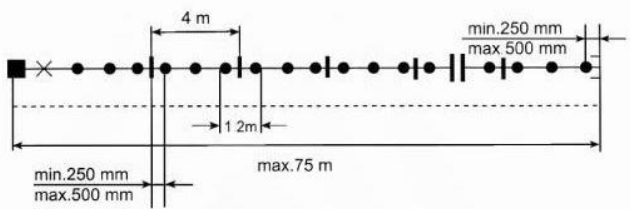
适合于35A-240A的滑线。Be used for 35A-240A.



符号说明/Symbols

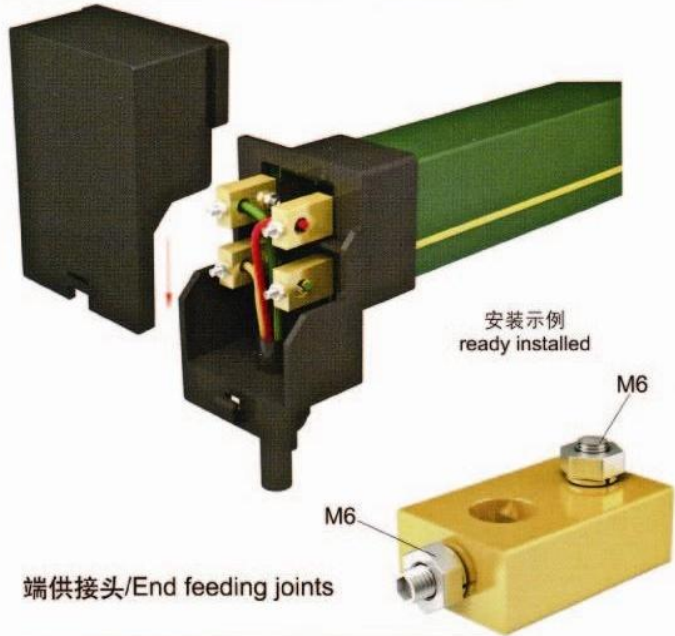
- 滑线/Powerail
- 轨道/Runway
- 连接夹/Joining materia
- 固定吊夹/Fixpoint hanger
- 滑动吊夹/Sliding hanger
- 端帽/End cap
- 端供/End feed
- 中间供电/Line feed
- 分段/Isolating assembly

* 滑动吊夹在实际运用中可以为固定吊夹所取代。
Each sliding hanger can be converted to a fixpoint hanger



安装在整条滑线系统的左端或右端。
Left and right version

型号/Type	材质/Material	产品编码/Order-No.
56DG	ABS	564685



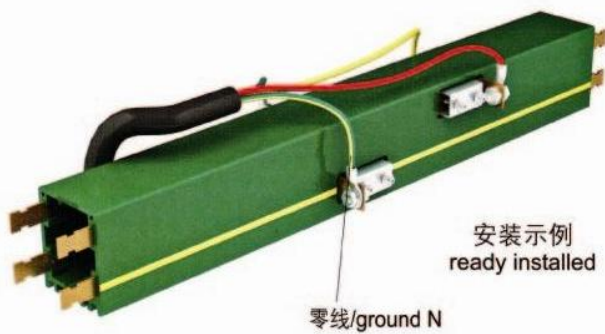
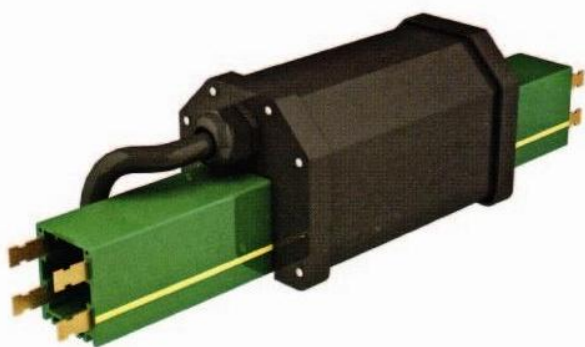
端供接头/End feeding joints

型号/Type	材质/Material	产品编码/Order-No.
56EJ-1	黄铜/brass	560009

安装支架/SUPPORT BRACKET

型号 Type	示意图 Schematic	材质 Materail	产品编码 Order-NO.
56ZJ-11		角钢 Angle steel	560011
56ZJ-21		扁钢 Flat steel	560021
56ZJ-31		C型钢 C-Track	560031

中间供电器(带0.5米滑线段)/LINE FEEDING (WITH 0.5 METER POWERAIL)*



安装示例
ready installed

* 标准设置为带 0.5 米滑线,也可以组装在不超过 4 米的滑线上。
with 0.5 meter powerail is standard length,other lenrths are avaiable,but not be exceeding 4 meter.
**X/m: 表示具体的滑线型号,如 56ZG/500-4/50A,则表示用于 4 极 50A 的滑线
X/m means type of powerail,for example,56ZG/500-4/50A,it means 4 poles,50 Amp powerail.

型号/Type**	产品编码/Order-No.
56ZG/500-X/m	564699

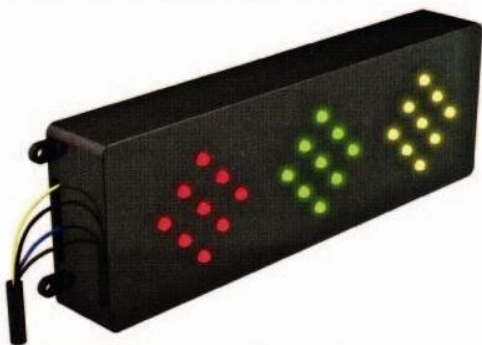
供电接头/FEEDING JOINTS



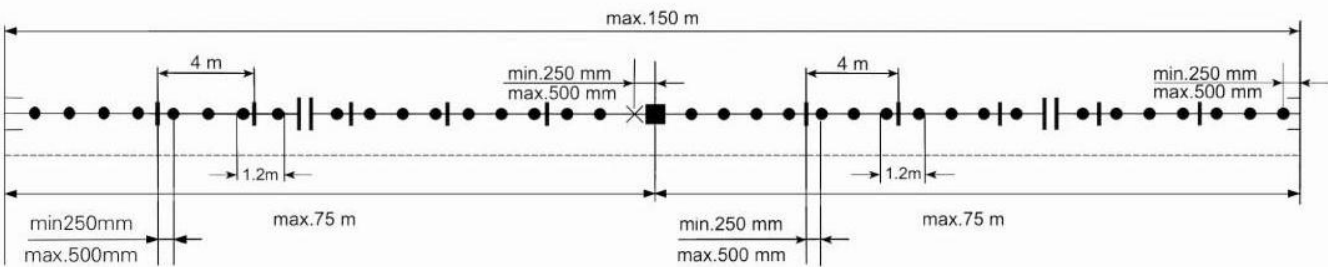
型号/Type	产品编码/Order-No.
56GJT-80A	560081
56GJT-120A	560082
56GJT-140A	560083
56GJT-170A	560085
56GJT-210A	560086
56GJT-240A	560088

LED指示灯/LED LIGHT

适用于安能的所有滑线。
Be used for all of ANNENG powerail.



型号/Type	产品编码/Order-No.
56LED	560098



特殊组件/special components

滑线分段装置/Conductor dead section

滑线分段为30 mm/30 mm isolating piece

图中显示为滑线分段装置。

请指出哪根导线需要进行分段。滑线备用段由工厂组装。

Picture shows a conductor dead section.

Please advise us which conductors should be disconnected.

The dead section comes factory assembled.

型号/Type	产品编码/Order-No.
56JXD/30	566030



防冷凝段/Anti-Condensation Sections

两端均带有特殊螺栓接头/with special bolted joints at both ends.

应用/Application

防冷凝段由带有空气循环孔的一米滑线段构成,气孔上覆盖有保护帽。The anti-condensation section will be used where Powerails are passing from indoor to outdoor, preventing condensation of the outside mounted Powerail.

The warm air from indoors can escape through the anti condensation section.

防冷凝段不中断滑线供电。

The anti-condensation section does not interrupt the Powerail electrically.

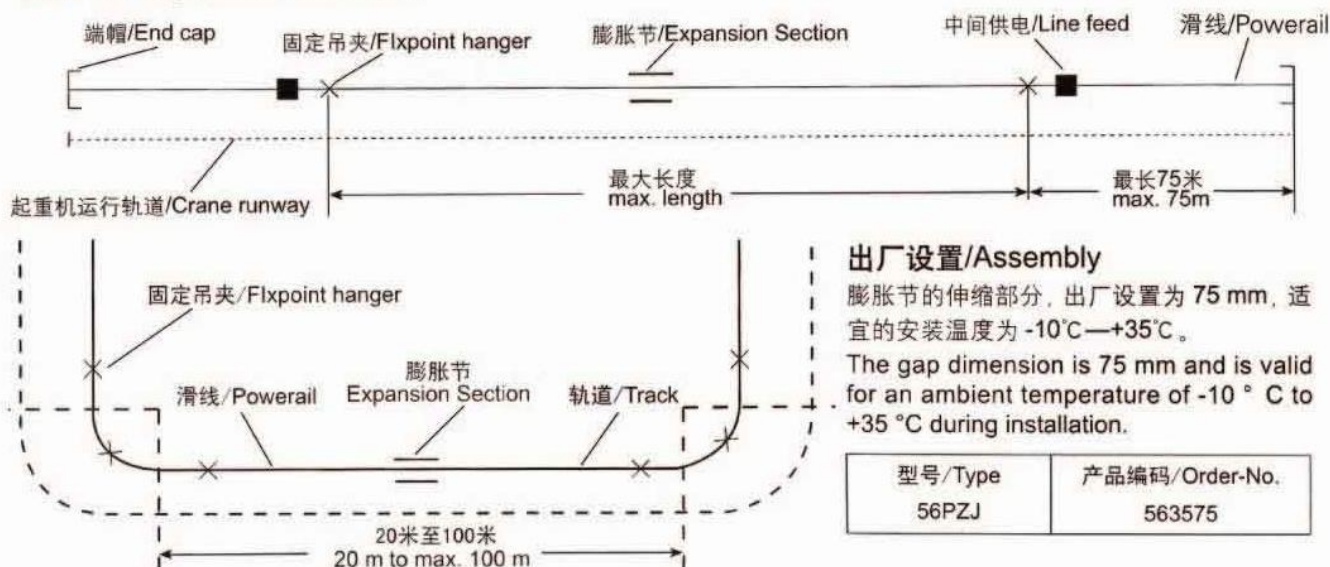
安装/Installation

防冷凝段需安装在室外,距离导向端帽 0.5-1 米。请查见草图。

The anti-condensation section is to be placed directly (0,5 m - 1 m max.) at the transfer point from indoor to outdoor. See sketch.

* 更长轨道需使用膨胀节。* For longer runs use Expansion section.

膨胀节/Expansion Section



出厂设置/Assembly

膨胀节的伸缩部分, 出厂设置为 75 mm, 适宜的安装温度为 -10°C—+35°C。

The gap dimension is 75 mm and is valid for an ambient temperature of -10 ° C to +35 ° C during installation.

型号/Type	产品编码/Order-No.
56PZJ	563575

膨胀节是用来补充因温度变化而产生的绝缘外壳和铜导线之间的膨胀差, 不会中断电源输送。

当滑线在供电点、弯弧、导向端帽及其他固定接头之间长度超过20 m时使用膨胀节。

The Expansion sections are required to compensate the different expansions between copper conductors and stee or concrete structures, in varying temperatures without interrupting electrical power.

Expansion joints are used when the Powerail length between feeds,curves, switches or other fix points is exceeding 20 m.

不同温差下的最大膨胀长度: Δt 90°C (-30°C 至 +60°C)

每隔100 m需安装一个膨胀节。

Max. length during differences in temperature:

Δt 90 ° C (-30 ° C to +60 ° C) install one expansion joint per 100 m.

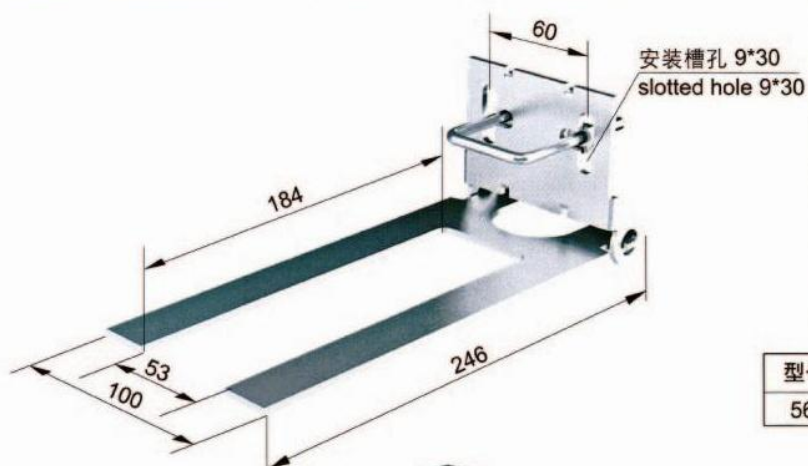
An additional expansion joint every 100 m.

若滑线的供电未被中断则不需附加供电点及集电器。

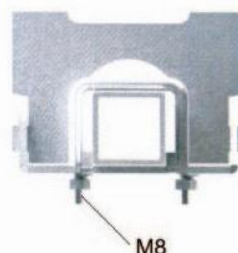
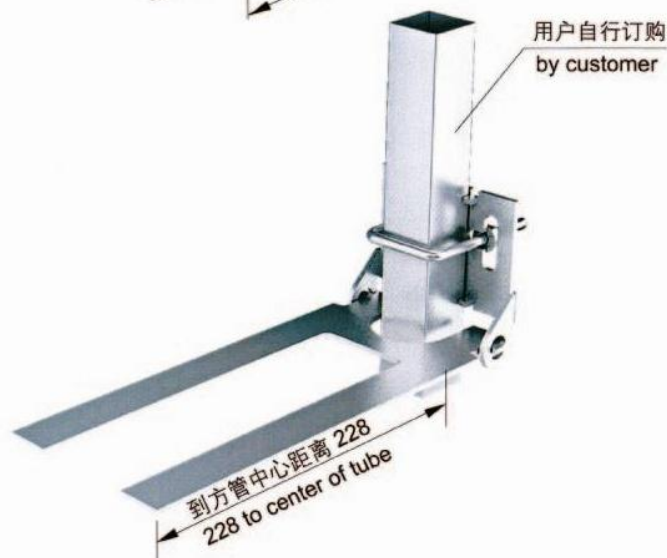
Additional feeds or current collectors are not required as the expansion-sections do not interrupt electrical power.

牵引器/Tow arm

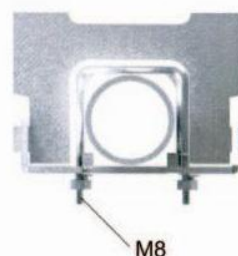
可配置方管或方形沟槽/could with tube or square hollow profile



型号/Type	材质/Material	产品编码/Order-No.
56BC/53	镀锌钢/galvanized	565053



用于方管牵引(无安装底板)
with square hollow profile
(without adapter plate)



用于圆管牵引(配置安装底板)
with the tube(for assembly
enclosed adapter plate)

滑线的维护/Maintenance

——安装结束后,必须进行滑线的调直检查,确保支架及吊夹的上下、左右位移在牵引器的位移范围内:检查支架焊接部分是否牢固:检查吊夹螺丝是否紧密或有腐蚀现象发生。

——滑线正式运行前,需进行滑线接头处的检查,当集电器运行至接头处,声音过大且有异响时,请检查接头是否松动或磨损情况,及时维修。

——每3至12个月,根据使用的频率和运行的距离,检查集电器碳刷和机械部分的磨损,当达到磨损指标警戒线时,请及时更换集电器的碳刷,以免因碳刷过短引起跳火花现象而降低滑线的使用寿命。

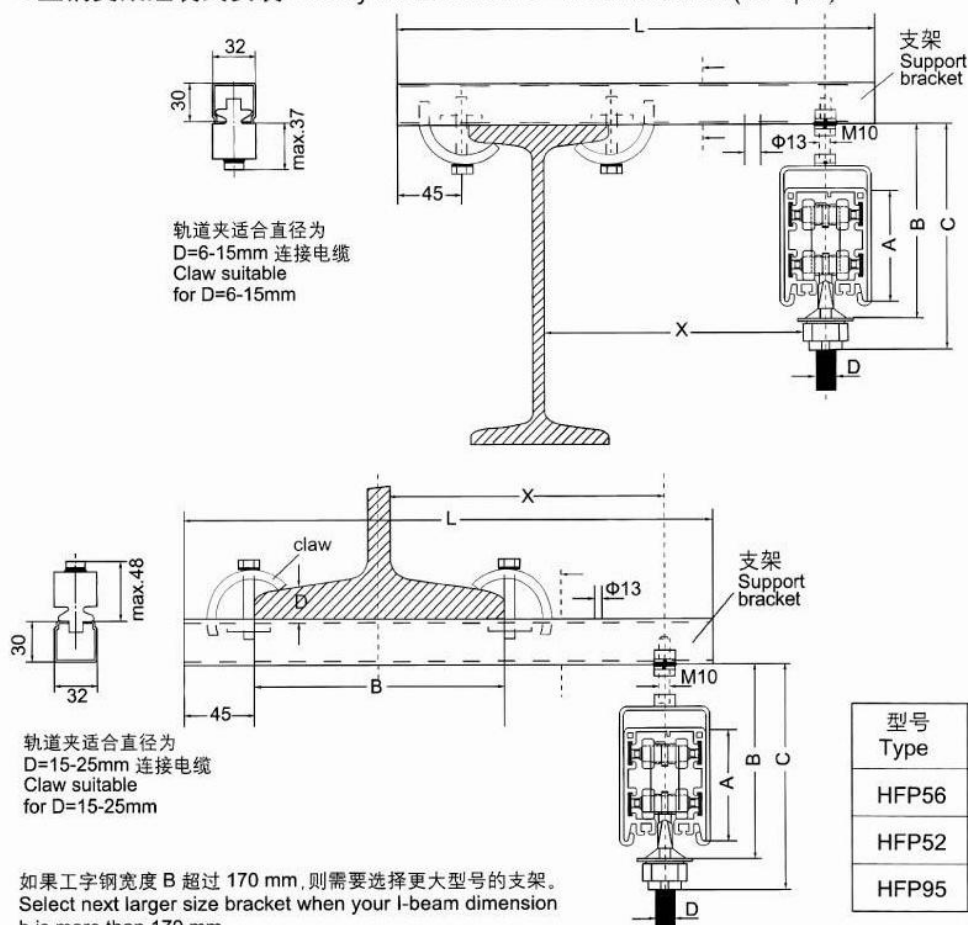
——After installation, Make sure that the sliding hangers are straight(in a perpendicular position)after nuts have been tightened to guarantee free sliding of the powerail. The powerail must be installed exactly straight and parallel to the machinery track.

——Before running the powerail. Check the system for easy running of the current collector trolleys. i. e. there may be no resistance by an excessively narrow slot or pull by the connecting cable.

——Every 3 up to max. 12 months. depending on the frequency of operation and travel distance-, check the carbon brushes and mechanical components for wear and replace them if necessary.

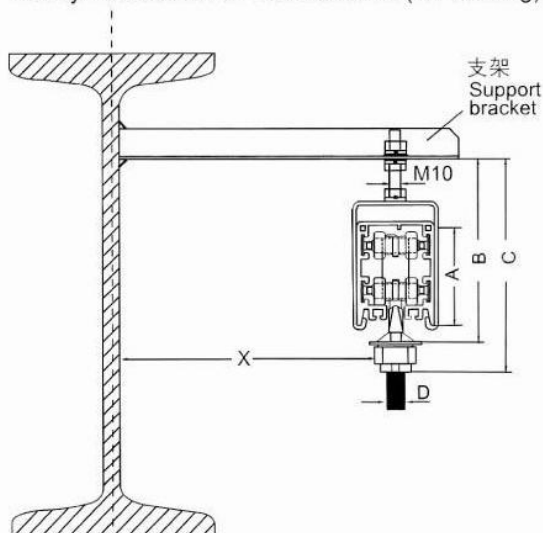
工字钢梁安装示意图/VIEW WITH I-BEAM

C型钢支架组装式安装/Ready installed on C-Track bracket (for split)



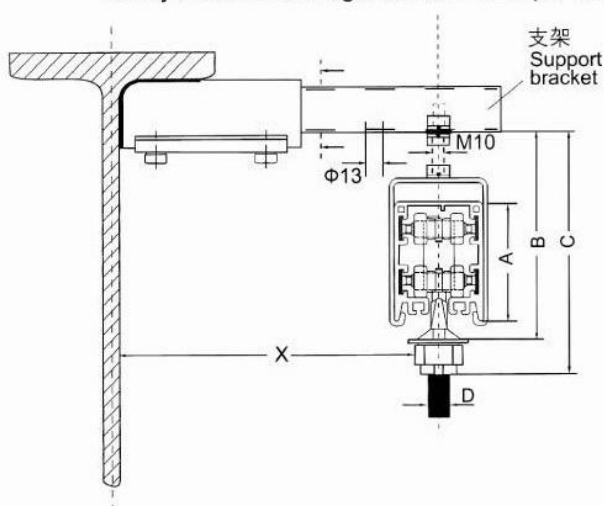
C型钢支架焊接式安装

Ready installed on C-Track bracket (for welding)

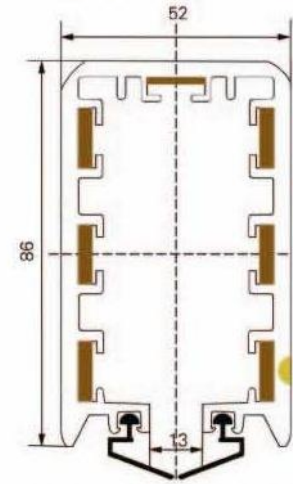


角钢支架焊接式安装

Ready installed on Angle steel bracket (for weld)



52系列型号·技术参数·产品编码/TYPES • TECHNICAL DATA • ORDER NUMBERS



滑线编码/Conductor code

HFP52-4(5,6,7)-n/m

HFP52 = 多极导管式滑线代号

powerail enclosed conductor

4(5,6,7)= 极数/poles

n= 单相横截面积/conductor cross section(mm²)

m= 额定载流量/continuous ampere capacity

单相铜排宽度/Width for copper:

12.5 mm

长度/Length

标准长度为4m,也可提供其它不超过6米的长度.
4m is standard length,other lengths are available,but not be exceeding 6 m.

支架间距/Support spacing

直线段1.2m,for straight runs 1.2m.

弧线段/Curves

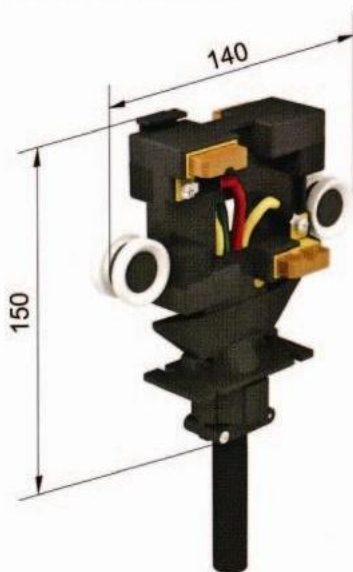
最小半径1200mm.min.R=1.2m

仅限于4极 only 4 poles powerail

型号 Type	极数 Poles	单相横截面积(mm²) Conductor cross section	额定载流量(A) Max. current	电气间隙(mm) Leakage-distance	额定电压(V) Max.Voltage	电阻(Ω/km) Resistance	产品编码 Order-NO.
HFP52-4-10/50	4	10	50	55	600	1.656	521014
HFP52-5-10/50	5	10	50	15	600	1.656	521015
HFP52-6-10/50	6	10	50	15	600	1.656	521016
HFP52-7-10/50	7	10	50	15	600	1.656	521017
HFP52-4-15/80	4	15	80	55	600	1.137	521514
HFP52-5-15/80	5	15	80	15	600	1.137	521515
HFP52-6-15/80	6	15	80	15	600	1.137	521516
HFP52-7-15/80	7	15	80	15	600	1.137	521517
HFP52-4-20/100	4	20	100	55	600	1.011	522014
HFP52-5-20/100	5	20	100	15	600	1.011	522015
HFP52-6-20/100	6	20	100	15	600	1.011	522016
HFP52-7-20/100	7	20	100	15	600	1.011	522017
HFP52-4-25/120	4	25	120	55	600	0.713	522514
HFP52-5-25/120	5	25	120	15	600	0.713	522515
HFP52-6-25/120	6	25	120	15	600	0.713	522516
HFP52-7-25/120	7	25	120	15	600	0.713	522517
HFP52-4-35/140	4	35	140	55	600	0.522	523514
HFP52-5-35/140	5	35	140	15	600	0.522	523515
HFP52-6-35/140	6	35	140	15	600	0.522	523516
HFP52-7-35/140	7	35	140	15	600	0.522	523517
HFP52-4-50/170	4	50	170	55	600	0.377	525014
HFP52-5-50/170	5	50	170	15	600	0.377	525015
HFP52-6-50/170	6	50	170	15	600	0.377	525016
HFP52-7-50/170	7	50	170	15	600	0.377	525017

52系列集电器/CURRENT COLLECTOR

52JD/4-25A & 40A



25A和40A集电器适用于 $R>1200$ 的弧形滑线。

Collector 25A & 40A are used for curves ($R>800$).

25A集电器适合于35A-50A的滑线。Collector 25A is used for 35A-50A.

40A集电器适合于65A-120A的滑线。Collector 40A is used for 65A-120A.

最高限速为150 m/min。max. speed 150 m/min.

在带有密封条的滑线运行时最高限速为110 m/min。

Also for powerails with sealing strip up to 110 m/ min.

连接电缆/Connecting cable

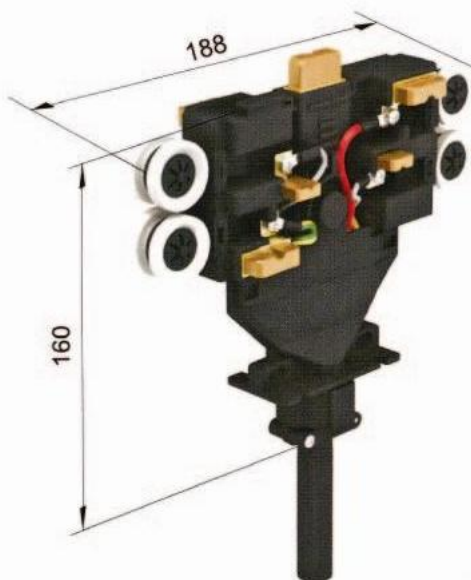
25 A, $2.5\text{mm}^2/\text{core} \times 4$

40 A, $4.0\text{mm}^2/\text{core} \times 4 + 2.5\text{mm}^2/\text{core} \times 1$

0.8 m长，可提供更长的电缆。 0.8 m long, longer cables on request.

型号/Type	极数/poles	额定功率/Power rating	产品编码/Order-No.
52JD-4/25	4	25 A	523125
52JD-4/40	4	40 A	523140

52JD/7-25A & 40A*



最高限速为135 m/min。max. speed 135 m/min.

在带有密封条的滑线运行时最高限速为100 m/min。

Also for powerails with sealing strip up to 100 m/ min.

连接电缆/Connecting cable

25 A, $2.5\text{mm}^2/\text{core} \times 9$

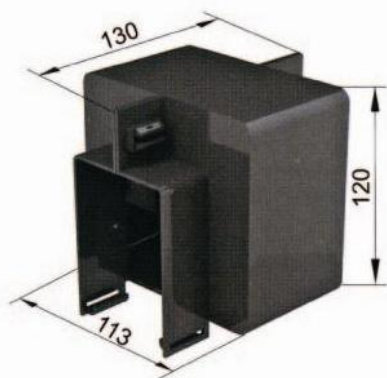
40 A, $4.0\text{mm}^2/\text{core} \times 4 + 2.5\text{mm}^2/\text{core} \times 5$

1 m长，可提供更长的电缆。 1 m long, longer cables on request.

型号/Type	极数/poles	额定功率/Power rating	产品编码/Order-No.
52JD-7/25	7	25 A	523225
52JD-7/40	7	40 A	523240

*可3只或3只以上并联使用，功率最大可达120A，但仅限于直线2段使用。
3 pcs or more collceters could parallel connect,but only for straight powerail

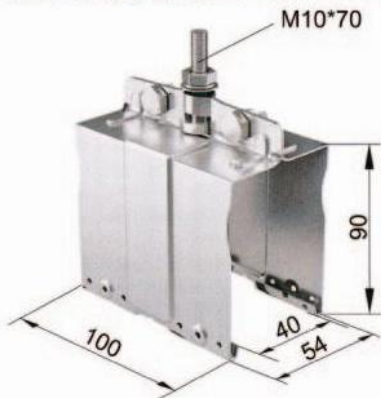
连接夹/JOINTING BOX



型号/Type	材质/Material	产品编码/Order-No.
52LJ-5	ABS	523405

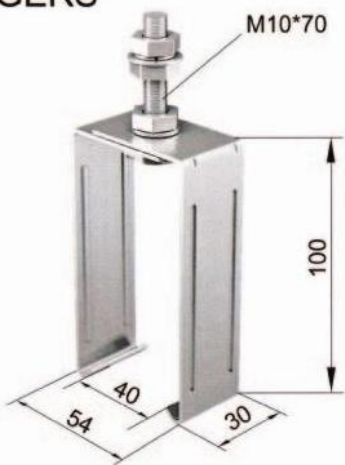
定位夹/ANCHOR HANGER*

适合于铜排整穿的滑线系统/be used without any joints



型号/Type	材质/Material	产品编码/Order-No.
52LJ-8	镀锌钢/galvanized	523408

吊夹/HANGERS



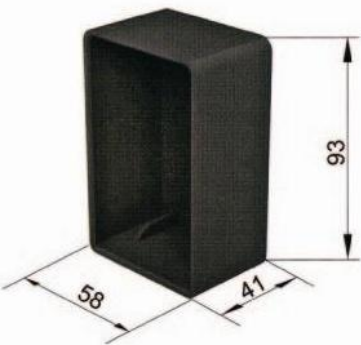
型号/Type	材质/Material	产品编码/Order-No.
52DJ-1	镀锌钢/galvanized	523901

螺钉式直接头/WITH BOLTED JOINT



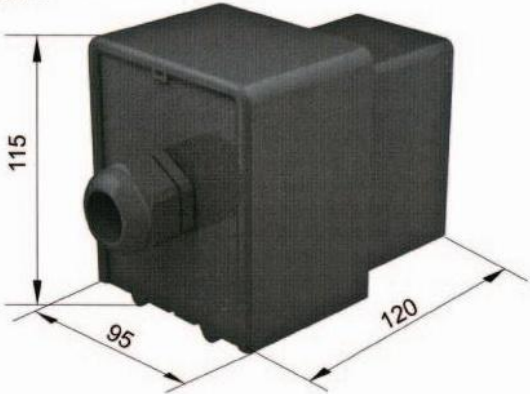
型号/Type	材质/Material	产品编码/Order-No.
52JT-80A	外壳镀锌钢. 接触片紫铜 galvanized&copper	520001
52JT-120A		520002
52JT-140A		520003
52JT-170A		520005
52JT-210A		520006
52JT-240A		520008

端帽/END CAP



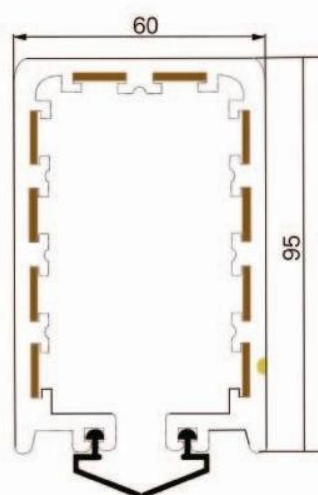
型号/Type	材质/Material	产品编码/Order-No.
52DM	ABS	523701

端供/END FEED



型号/Type	材质/Material	产品编码/Order-No.
52DG	ABS	524695

导管式滑触线HFP95系列/POWERRAIL SYSTEMS HFP95



滑线编码/Conductor code

HFP95-4-n/m

HFP95 = 多极导管式滑线代号

powerail enclosed conductor

n= 极数/poles

n= 单相横截面积/conductor cross section(mm²)

m= 额定载流量/continuous ampere capacity

单相铜排宽度: 12.0 mm

Width for copper: 12.0 mm

长度/Length

标准长度为4m,也可提供其它不超过6米的长度.
4m is standard length,other lengths are available,but not be exceeding 6 m.

弧线段/Curves

最小半径1800mm.min.R=1.8m

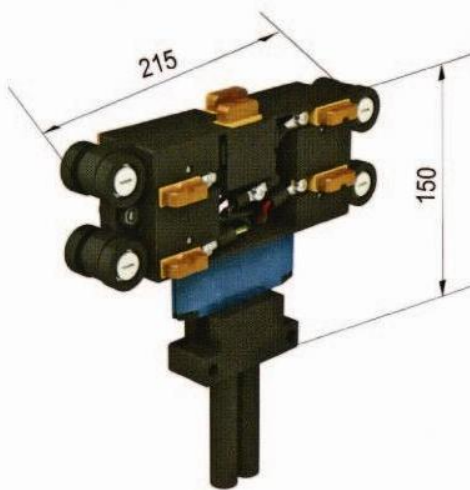
支架间距/Support spacing

直线段1.2m,for straight runs 1.2m.

系列基本参数 TECHNICAL DATA

型号 Type	极数 poles	单相横截面积(mm ²) conductor cross section	额定载流量(A) Max. current	电气间隙(mm) Leakage-distance	额定电压(V) max.Voltage	电阻(Ω/km) Resistance	产品编码 Order-NO.
HFP95-10-10/50	10	10	50	20	600	1.656	951010
HFP95-10-15/80	10	15	80	20	600	1.193	951510
HFP95-10-20/100	10	20	100	20	600	1.011	952010

集电器/CURRENT COLLECTOR



最高限速为135 m/min。max. speed 135 m/min.

在带有密封条的滑线运行时最高限速为100 m/min。

Also for powerails with sealing strip up to 100 m/ min.

连接电缆/Connecting cable

25 A, 2.5mm² /core

40 A, 4.0 mm²/core

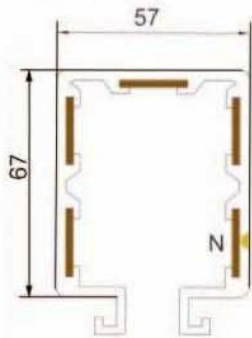
1.0 m长, 可提供更长的电缆。

1.0 m long, longer cables on request.

型号/Type	极数/poles	额定功率/Power rating	产品编码/Order-No.
95JD-5/25	5	25 A	953125
95JD-5/40	5	40A	953140
95JD-8/25	8	25A	953225
95JD-8/40	8	40A	953240
95JD-10/25	10	25A	953325
95JD-10/40	10	40A	953340

塑管式滑触线·铝外壳管式滑触线/PVC & ALUMINIUM ENCLOSED POWERAIL

塑管式 PVC ENCLOSED POWERAIL



滑线编码/Conductor code

HFP-4(5)-n/m

HFP = 多极导管式滑线代号/powerail enclosed conductor

4(5)= 极数/poles

n= 单相横截面积/conductor cross section(mm²)

m= 额定载流量/continuous ampere capacity

长度/Length

标准长度为4m,也可提供其它不超过6米的长度.

4m is standard length,other lengths are available,but not be exceeding 6 m.

支架间距/Support spacing

直线段1.2m,for straight runs 1.2m.

弧线段/Curves

最小半径1200mm.min.R=1.2m

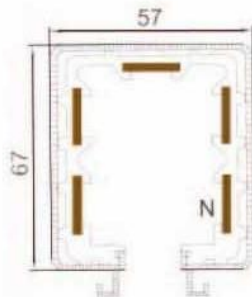
单相铜排宽度/Width for copper

17.6 mm

N为零线/Line N is for ground.

型号 Type	极数 poles	单相横截面积(mm²) conductor cross section	额定载流量 (A) Max. current	电气间隙 (mm) Leakage-distance	额定电压 (V) max.Voltage	电阻 (Ω/km) Resistance	产品编码 Order-NO.
HFP-4-10/50	4	10	50	30	600	1.656	571014
HFP-4-15/80	4	15	80	30	600	1.193	571514
HFP-4-20/100	4	20	100	30	600	1.011	572014
HFP-4-25/120	4	25	120	30	600	0.761	572514
HFP-4-35/140	4	35	140	30	600	0.542	573514
HFP-4-50/170	4	50	170	30	600	0.379	575014

铝外壳式 ALUMINIUM ENCLOSED POWERAIL



滑线编码/Conductor code

HFJ-4(5)-n/m

HFJ = 铝塑复合导管式滑线代号

Aluminium powerail enclosed conductor

4(5)= 极数/poles

n= 单相横截面积/conductor cross section(mm²)

m= 额定载流量/continuous ampere capacity

长度/Length

标准长度为4m,也可提供其它不超过6米的长度.

4m is standard length,other lengths are available,but not be exceeding 6 m.

支架间距/Support spacing

直线段1.2m,for straight runs 1.2m.

弧线段/Curves

最小半径1500mm.min.R=1.5m

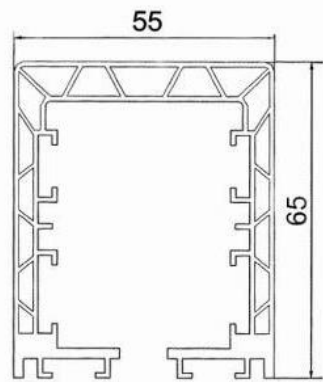
单相铜排宽度/Width for copper 17.6 mm

N为零线/Line N is for ground.

型号 Type	极数 poles	单相横截面积(mm²) conductor cross section	额定载流量 (A) Max. current	电气间隙 (mm) Leakage-distance	额定电压 (V) max.Voltage	电阻 (Ω/km) Resistance	产品编码 Order-NO.
HFJ-4-10/50	4	10	50	25	600	1.656	581014
HFJ-4-15/80	4	15	80	25	600	1.193	581514
HFJ-4-20/100	4	20	100	25	600	1.011	582014
HFJ-4-25/120	4	25	120	25	600	0.761	582514
HFJ-4-35/140	4	35	140	25	600	0.542	583514
HFJ-4-50/170	4	50	170	25	600	0.379	585014

导管式滑触线（55系列，16极）型号/TYPES OF POWERAIL

HFP55系列 System HFP55



滑线编码/Conductor code

HFP55-4-n/m

HFP55 = 多极导管式滑线代号
 powerail enclosed conductor

4 = 极数/poles

n = 单相横截面积/conductor cross section(mm²)

m = 额定载流量/continuous ampere capacity

单相铜排宽度: 14.5 mm

Width for copper: 14.5 mm

长度/Length

标准长度为4m,也可提供其它不超过6米的长度.

4m is standard length,other lengths are available but not be exceeding 6 m.

支架间距/Support spacing

直线段1.2m,for straight runs 1.2m.

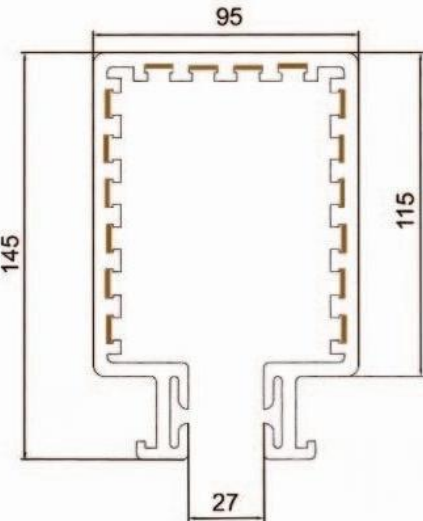
弧线段/Curves

最小半径1200mm.min.R=1.2m

HFP55系列基本参数 (TECHNICAL DATA OF SYSTEM HFP55)

型号 Type	极数 poles	单相横截面积(mm ²) conductor cross section	额定载流量 (A) Max. current	电气间隙 (mm) Leakage-distance	额定电压 (V) max.Voltage	电阻 (Ω/km) Resistance	产品编码 Order-NO
HFP55-4-10/50	4	10	50	27	600	1.656	551014
HFP55-4-15/80	4	15	80	27	600	1.193	551514
HFP55-4-20/100	4	20	100	27	600	1.011	552014
HFP55-4-25/120	4	25	120	27	600	0.713	552514
HFP55-4-35/140	4	35	140	27	600	0.522	553514
HFP55-5-50/170	4	50	170	27	600	0.337	555014

十六极滑线 16 poles powerail



滑线编码/Conductor code

HFP-X-n/m

HFP = 多极导管式滑线代号
 powerail enclosed conductor

X = 极数/poles (10-16)

n = 单相横截面积/conductor cross section(mm²)

m = 额定载流量/continuous ampere capacity

单相铜排宽度: 10.0 mm

Width for copper: 10.0 mm

长度/Length

标准长度为4m, 4m is standard length.

支架间距/Support spacing

直线段1.2m, for straight runs 1.2m.

16极基本参数 (TECHNICAL DATA OF 16 POLES)

型号 Type	极数 poles	单相横截面积(mm ²) conductor cross section	额定载流量 (A) Max. current	电气间隙 (mm) Leakage-distance	额定电压 (V) max.Voltage	电阻 (Ω/km) Resistance	产品编码 Order-NO.
HFP-16-10/50	16	10	50	16	600	1.656	961016
HFP-16-15/80	16	15	80	16	600	1.193	961516