



PLASTIC CABLE CHAINS CSB-PCC®

2022

工程塑料电缆拖链

Polymer-tech Solutions™



- 成立于1995年，总注册资本2.23亿人民币；
- 2021年销售额超过8.6亿元人民币，员工900名；
- 拥有两个生产基地，占地130000m²；
- 国家级高新技术企业，98项专利；
- IATF16949:2016、ISO9001:2015、ISO14001:2015、ISO45001:2018认证。
- CSB was established in 1995 and its legal registered capital is 34.4 million US Dollars.
- CSB turnover in 2021 was more than USD 135 million. Currently there are 800 employees working at CSB.
- There are 2 facilities covering over 130000m² with extendable area for future enlargement.
- China National Hi-Tech Enterprise has been granted, 98 patents obtained till now.
- IATF16949:2016、ISO9001: 2015、ISO14001: 2015 and ISO45001: 2018 management system were certificated.

新型自润滑材料适应环境保护要求 Concern for Environment Requirement

CSB积极应对环境保护的要求，通过多年的努力在各个应用领域都已成功开发了满足RoHS要求的不同材料。

Concern for environmental requirement, CSB has developed various kinds of self-lubricating materials to conform to environment requirement.

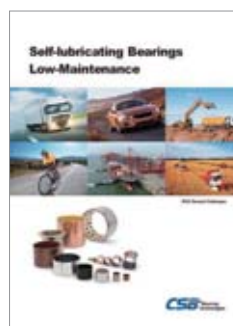
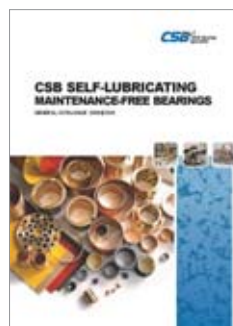
RoHS指令限制的十种有害物质 EC Directive 2011/65/EU (the RoHS Directive)

汞Hg、六价铬Cr⁶⁺、铅Pb、镉Cd、多溴联苯醚PBDE、多溴联苯PBB、邻苯二甲酸二正丁酯DBP、邻苯二甲酸正丁基苄酯BBP、邻苯二甲酸(2-己基)己酯DEHP、六溴环十二烷HBCDD。

This directive restricts the use of hazardous substances. Listed below are CSB products which are all RoHS compliant.



"CSB", "CSB-EPB", "CSB-LIN", "CSB-FWB", "CSB-LMS", "CSB-BAL", "CSB-RPM", "CSB-PEC", "CSB-PCC", "CSB-PEW", "CSB-PPR", "CSB-FLB", "CSB-CPB", "CSB-PCB", "CSB-PYB", "CSB-SRB", "CSB-PRB", "TEFPLAS", "DURARUB", "DURAFILM", "DURAPLAS" and "TRIBOTAPE" are legally protected trademarks in China and in case also in foreign countries. 中国保护商标。



Your Partner for Self-lubricating Bearing Application

为所有工业提供各种自润滑轴承解决方案



CSB-EPB® 工程塑料轴承 Plastic Plain Bearings

自润滑免维护、耐腐蚀、长服务寿命、轻量化；可选：极低摩擦系数、高载荷、抗静电、高温250℃、FDA 食品安全等级。

Maintenance-free dry operation, Absolute corrosion resistance, Long service time and light; Multiple choices: Lowest friction coefficient, High load, Anti-static, High temperature 250℃, FDA food safety grade.



CSB-BAL® 塑料关节轴承 Plastic Spherical Bearings

自润滑免维护、耐腐蚀、抗污垢、轻量化；可选：多种结构设计满足不同安装需求。

Self-lubricating and maintenance-free, Corrosion-resistant, Anti-fouling, lightweight; Multiple structural design to meet different installation requirements.



CSB-LIN® 塑料直线轴承 Plastic Linear Bearings

干运行无需供油、抗粉尘、无噪音、耐腐蚀、长服务寿命、轻量化；可选：高温250℃、多种安装方式。

Dry operation without oil, Anti-dust, No noise, Corrosion resistance, Longer service time and light; Multiple Assemble types, Highest operation temperature 250℃.



CSB-LMS® 直线驱动系统 Linear Motion Systems

自润滑免维护直线驱动系统，直线滑动原件及丝杆螺母均采用高耐磨EPB13材料制成，实现长期干摩擦，低噪音，长服务寿命，适合在粉尘或污水下运行。

Self-lubricating and maintenance-free linear motion system, Linear slider and screw nuts are made of high wear-resistant material EPB13, Dry operation for longer time, lower noise, longer service time and suitable for operation in dust or dirty water.



CSB-SRB® 回转支承轴承 Slewing Ring Bearings

免维护干运行、低噪音、轻量化；滑动原件可选耐磨材料EPB13、高载荷金属与特氟龙复合材料CSB-11。

Maintenance-free and dry operation, lower noise, lightweight; The slider can be made of wearresistant material EPB13 or metal and teflon composite material CSB-11 for higher load.



CSB-FWB® 纤维缠绕轴承 Filament-wound Bearings

连续长纤维复合材料、干摩擦性能更优越、极高的承载能力、最高静载荷240MPa，特别适合用于高载低速下的摆动。

Long fiber composite material, The best performance for dry operation, High load capacity and max. static load 240MPa, Especially suitable for swing with high load and low speed.



CSB-PCC® 工程塑料电缆拖链 Plastic Cable Chains

采用高强度耐磨工程塑料制成的电缆拖链CSB-PCC®，可实现多种运动方式与行程。承载灵敏的总线、数据电缆、光缆和能源管线，如电源动力线、编码器线、开关信号线、油管、气管及水管等；模块化设计易于组装和维护，适用于各种环境下低噪音长寿命运行。

The cable chain CSB-PCC® made of high-strength and wear-resistant plastic, CSB-PCC® chains are used in a variety of motion modes and strokes. CSB-PCC® chains can carry the total cables, data cables, fiber optic cables and energy hoses, such as power cables, encoder cables, switch signal cables, oil, water and gas hoses; modular design for easy assembly and maintenance, suitable for low noise and longer life in various environments.

CSB Product Family

CSB产品

Polymer-tech Solutions™

Products

CSB-PCC®

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CSB-EPB® 工程塑料轴承 Plastic Plain Bearings



CSB-LIN® 塑料直线轴承 Plastic Linear Bearings



CSB-PRB® 塑料滚动轴承 Plastic Ball Bearings



CSB-BAL® 塑料关节轴承 Plastic Spherical Bearings



CSB-LMS® 直线驱动系统 Linear Motion Systems



CSB-SRB® 回转支撑轴承 Slewing Ring Bearings



CSB-RPM® 转向器轴承 Steering Rack Bearings



TEFPLAS® 高速滑动轴承 High Speed Sliding Bearings



KER 转角轴承 Knife Edge Rollers



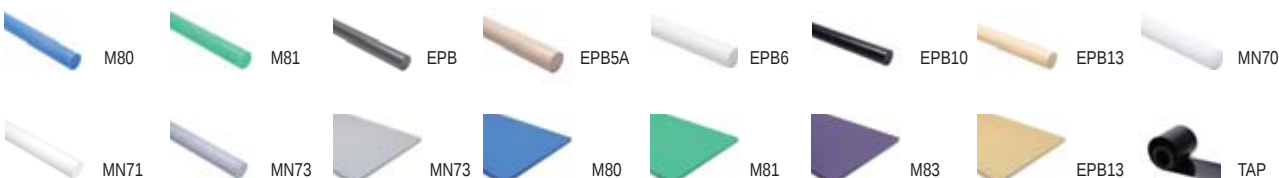
CSB-PEC® 扶梯回转链 Escalator Rotary Chains



工程塑料电缆拖链 Plastic Cable Chains



CSB-SFP® 耐磨半成品 Semi-finished Products



CSB-FWB® 纤维缠绕轴承 Filament-wound Bearings



金属自润滑轴承 Metal Sliding Bearings



首页 / CSB® 在线工具 / 塑料电缆拖链查找器 V1.0

1 电缆拖链类型

☒ 微型电缆拖链C01
☒ 微型悬挂式电缆拖链C11
☒ 可打开微型电缆拖链C21
☒ 通用型电缆拖链C02
☒ 高负载型电缆拖链C03
☒ 静音/清洁型电缆拖链C04

2 填充电缆 | 气管 | 油管参数

项目	类型	外径 [mm]	壁厚 [mm]	数量 [pcs]	截面积 [mm²]
1	电缆	1	0.001	1	0.785
2	气管	1	0.001	1	0.785
3	油管	1	0.001	1	0.785
+ 新增项目					总计 2.355

3 电缆拖链安装方式

☒ 水平架空
☐ 垂直悬挂
☐ 垂直站立
☐ 侧向安装

4 电缆拖链安装参数

4 拖链最大行程 S: 0.1 m
 5 拖链最大架空长度 L: 0.1 m
 6 拖链安装最大宽度 B: ☒ 无限制 ☐ 有
 7 拖链安装最大高度 H: ☒ 无限制 ☐ 有
 8 拖链运行速度 V: ☒ 无限制 ☐ 有
 9 拖链打开方式: ☒ 无限制 ☐ 顶部 ☐ 侧口

5 CSB-PCC®适配电缆拖链 [最小安全系数1.5]

微型电缆拖链C01	微型悬挂式电缆拖链C11
C01.07.07.015.005	C11.05.05.010.008
C01.07.07.018.005	C11.05.05.012.008
C01.07.07.025.007	C11.05.05.015.007
C01.07.07.035.009	C11.05.05.018.009
C01.07.07.048.011	C11.05.05.028.011

在线工具 Online Tools ▶▶▶.....

Home / CSB® Online tools / Cable chains tool V1.0

1 Select cable chains

☐ Micro cable chains C01
☐ Opening micro cable chains C11
☒ Openable cable chains C21
☒ Universal cable chains C02
☒ High load cable chains C03
☐ Quiet/Clean cable chains C04

2 Filling cables|gas tubes|oil tubes

Items	Type	Outside diameter [mm]	Weight [kg/m]	Quantity [pcs]	Sectional area [mm²]	Weight [kg/m]	Option
1	Cables	5	0.01	3	19.625	0.030	
2	Gas tubes	1	0.001	2	0.785	0.002	Delete
3	Oil tubes	1	0.1	1	0.785	0.100	Delete
Add item						Total	
						21.195	0.132

3 Cable chains installation type

☒ Unsupported
☐ Vertical hanging
☐ Vertical standing
☐ Side-mounted

4 Cable chains installation dimensions

4 Max. length of travel: 1.5 m
 5 Max. unsupported straight length: 1 m
 6 Max. clearance width for chains: ☐ Unlimited ☒ 100 mm
 7 Max. clearance height for chains: ☐ Unlimited ☒ 100 mm
 8 Over-length in final position: ☐ Unlimited ☒ 165 mm

▶▶▶..... 请登录我们的网站查询please visit: www.csb-ep.com

CSB R&D resources

CSB研发资源

R&D

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CSB始终坚持以自润滑材料科学为核心，充分利用先进的研发检测设备，并与科研院所和国外科技联合创新。CSB拥有先进的材料性能检测设备和自润滑轴承摩擦磨损性能以及塑料电缆拖链寿命专业检测设备，CSB新产品开发工程师每年通过各种检测设备进行材料性能检测和研发试验近万次。CSB每年自主研发以及为特殊客户研发的新产品近百种，并通过新材料新技术的不断探索提升现有产品性能，满足了各种行业对自润滑轴承以及塑料电缆拖链提出的新要求。

CSB insists on the theory of going on creation and pursuing excellence and established the system concentrating on the self-lubricating material technology, making full use of the advanced research and testing equipment, joint innovation with research institutes and foreign technology. CSB has advanced performance testing equipments for materials, The most comprehensive tribological properties professional testing equipments for lubricating bearings, The service life tester for plastic cable chains. There are thousands of tests on the materials and equipments that CSB engineers will execute each year. Hundreds of new materials and products are developed by CSB to meet the continuously changing requests from the market.



CSB-PCC® 电缆拖链测试中心
CSB-PCC® Plastic cable chain test center



光谱仪（德国）
Optical spectrometer (Germany)



摩擦磨损试验机（CSB）
Friction & Wear tester



化学分析中心
Chemical analysis center



电子万能材料试验机
Instron 5567 material testing system



能谱仪 (EDS)
Energy dispersive spectrometry (EDS)



材料分析中心
Material analysis center



高低温交变试验箱
High and low temperature
alternating test chamber



UV老化环境试验机
UV Accelerated Weathering Tester



材料剖析中心
Material structure center

CSB-PCC® Plastic Cable Chains

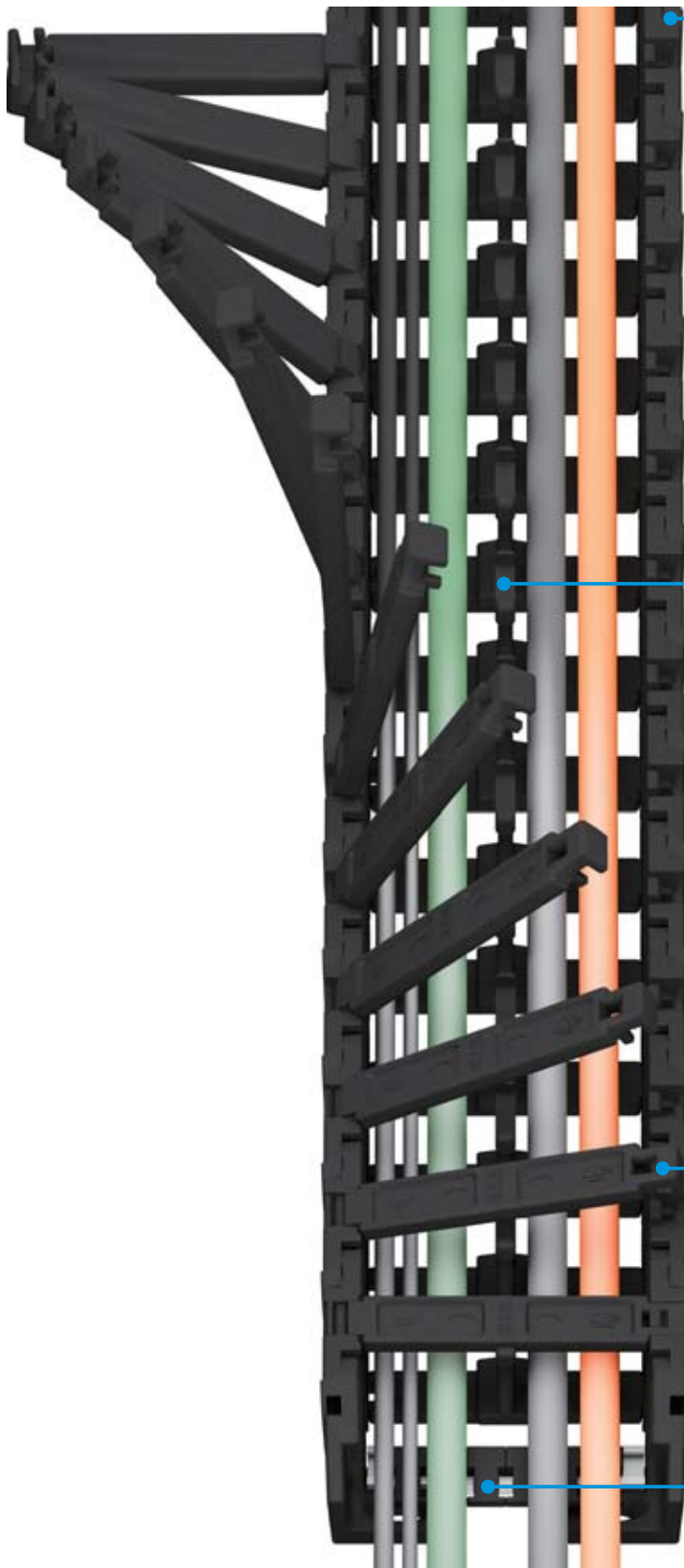
CSB-PCC® 工程塑料电缆拖链

Products

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CSB-PCC® 电缆拖链采用高强度耐磨材料制成
CSB-PCC® cable chains are made of high-strength and wear-resistant materials

C01微型电缆拖链
Micro cable chains:M163

C11易填充微型电缆拖链
Open design micro cable chains:M107

C21可打开微型电缆拖链
Openable design micro cable chains:M163

C04静音型电缆拖链
Quiet micro cable chains:M163

C02/C12通用型电缆拖链
Universal cable chains: M163

C03/C13重载型电缆拖链
High load cable chains: M163

EDS9抗静电材料作为可选
Anti-static material is available for cable chains

分隔片
Strain relief separators

高强度与稳定性连接设计
High strength and stability connection design

消除应力元件
Strain relief elements

■ 电缆拖链应用案例 Plastic cable chains applications



C03电缆拖链用于保护长行程机器人电缆
C03 cable chains protect long-stroke robot cables

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

■ 电缆拖链应用案例 Plastic cable chains applications

CSB-PCC® Application

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CNC加工中心
Machining center



机械手
Robot



自动化设备
Auto machine



塑料膜生产线
Plastic film production line



水刀切割机
Waterjet cutting machine



二氧化碳切割设备
CO₂ cutting machine



激光切割设备
Laser cutting equipment



玻璃钢管缠绕机
Filament-wound machine

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

CSB-PCC® 电缆拖链参数 Cable chains

系列 Series	开启原理 Opening principle	内高 Hi Inner height [mm]	最大电缆 外径 Max. cable outer diameter [mm]	内宽 Bi Inner width [mm]	外高 Ha Outer height [mm]	外宽 Ba Outer width [mm]	弯曲半径 R Bend radius [mm]	节距 T Link pitch [mm]
C01 微型电缆拖链 Micro cable chains, Closed design								
沿拖链外侧横杆不可打开 For the smallest applications. One-piece, non-openable								
		07	8	7-30	10	12-35	15-48	16.7
		10	8	10-30	12	14-34	18-38	20
		15	12	16-50	19.3	24.2-58.2	25-48	20
C11 易填充微型电缆拖链 Micro cable chains, Opening design								
易填充电缆线，内侧横杆为分离式设计 Fill the cable quickly and easily; Split crossbar along the inner radius								
		05	3	5-10	8	8.7-13.7	10-18	10
		07	4.5	7-30	10	12-35	15-48	16.7
		10	6.5	10-20	15	16.5-26.5	18-38	20
C21 可打开微型电缆拖链 Micro cable chains, Openable along the outer radius								
沿拖链外侧方向打开 Fill the cable quickly and easily; Openable along the outer radius								
		15	12	16-40	19.3	24.2-48.2	28-48	20
		20	16	25-50	25	36-61	28-48	30.5
C02 通用型电缆拖链 Universal cable chains								
沿拖链内外侧方向可打开 For almost any application. Crossbars removable along the inner and outer radius								
		18	16	38-125	28	54-141	38-150	40
		25	23	38-125	35	54-141	55-250	46
		35	32	50-150	50	66-194	63-250	56
		45	42	75-175	64	95-270	75-300	67
C03 重载型电缆拖链 High load cable chains								
每节带横杆 - 加强型 Strong chain with crossbars every link								
		32	28	50-200	54	73-223	63-300	56
		42	38	50-200	64	76-226	75-350	67
		56	50	100-300	84	134-334	135-400	91
		80	72	100-300	108	148-298	150-500	111
C04 静音型电缆拖链 Quiet cable chains, light and cleanroom suitable								
特殊结构与小节距设计静音无尘运行 Special design and small pitch for quite and cleanroom, Openable along the inner and outer radius								
		28	25	30-60	35	46-76	55-150	22

■ 特别适合 Especially suitable

Cable chains

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

CSB-PCC® 电缆拖链附件参数 Accessories

分隔片 Strain relief separators					
将链内空间按需要分隔开电缆、油管、气管等起到保护作用 The separator separates inside space of the chain to protect cables, oil hoses, gas hoses, etc.					
	C02竖分隔片 Vertical separators	P76		C03竖分隔片 Vertical separators	P77
	C04竖分隔片 Vertical separators	P78		横分隔片 Horizontal separators	P80
应力件 Strain relief elements					
	C02 C型支架 C-profile supporter 安装在拖链接头内部 Mounted on the inside of the chain brackets	P82		C02消除应力元件 Tiewrap elements 配合C型槽与扎带使用 Used with C-profile supporter and tiewraps	P84
	C03 C型支架 C-profile supporter 可选安装在拖链接头内部或外部 Mounted on the inside or outside of the chain brackets	P83		C03消除应力元件 Tiewrap elements 配合C型槽与扎带使用 Used with C-profile supporter and tiewraps	P84
滑行垫 Sliding pads for cable chains			电缆夹 Cable clamp		
	C03滑行垫 Sliding pads for cable chains 用于C03塑料电缆拖链长行程保护 Used for C03 cable chains long stroke protection	P79		电缆夹 Cable clamp 多层可选，配合C型槽用于固定电缆 Multi-layer available, Used to fix cables with C-profile supporter	P85

CSB-PCC® Cable chains

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CSB-PCC® 波纹管 Bellows

系列 Series	类型 Type	内径 Bi Inner diameter [mm]	外径 Ba Outer diameter [mm]	弯曲半径 R Bend radius [mm]	架空长度 Unsupported length [m]	页码 Page
BL01 波纹管电缆拖链 Quiet and cleanroom cable chains						
用于多种场合保护电缆并可实现柔性运动 Used to protect cables in mutiple applications and flexible movement						
	封闭 Close	10-48	13-54.5	20-90	≤0.3	P90
	开口 Open	10-48	13-54.5	20-90	≤0.3	P90

波纹管附件 Accessories

	支架 Brackets 用于长行程支撑波纹管 Used to support bellows in long-travall applications	P92		快速接头 Quick connectors 快速连接无需工具 Quickly connected without tools	P93
	防水接头 Water-proof connectors 用于潮湿或液体飞溅环境 Used for wet or liquids environment	P94		直角接头 Right-angle connectors 用于需要直角转向应用 Used for right-angle applications	P95

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

技术参数说明 Technical description

应用图标 Application icons



短程架空
Unsupported



竖直悬挂
Vertical hanging



竖直站立
Vertical standing



侧向安装
Side-mounted



水平+竖直
Horizontal and
vertical



嵌套叠加
Nested



并行排列
Side by side

代码含义 Abbreviations and description

ΔM	= 偏移中心点的距离 Deviation of the center point	[mm]
AR	= 拖链外弯曲半径 Outer radius	[mm]
Ba	= 拖链外宽 Outer width	[mm]
Bi	= 拖链内宽 Inner width	[mm]
D	= 拖链退回极限位置时的距离 Over-length radius in final position	[mm]
FL _B	= 安全塌腰架空 Unsupported length with sag	[m]
FL _G	= 直线架空 Unsupported straight length	[m]
FL _U	= 下部无支撑架空 Unsupported lower run	[m]
FZ _{Max}	= 最大额外负载 Maximum fill weight	[kg/m]
H	= 理论安装高度 Nominal clearance height	[mm]
Ha	= 拖链外高 Outer chain height	[mm]
H _F	= 实际安装高 Required clearance height	[mm]
H _I	= 拖链内高 inner height	[mm]
K	= 弯曲半径余量 Add-on for bend radius	[mm]
n	= 节数 Quantity of links	[Pcs]
R	= 弯曲半径 Bend radius	[mm]
S	= 行程 Length of travel	[mm]
S ₂	= 半程 Half length of travel	[mm]
T	= 节距 Chain link pitch	[mm]

计算公式 Calculation formula

$K = \pi \times R + (2 \times T)$	弯曲半径余量 Add-on for bend radius
$L_k = S/2 + \Delta M + K$	拖链长度计算, 适用于固定端不在行程中央 (FL _G , FL _B 和 ΔM) 的应用 Chain length, fixed end is outside the center of travel (FL _G , FL _B and ΔM)
$L_k = S/2 + K$	拖链长度计算, 适用于除旋转运动及长行程外, 所有固定端位于行程中央的应用 Chain length, for all types of applications, fixed end in the center of travel, except circular movements and most long travels
$L_k = S/2 + K_2$	拖链长度计算, 适用于长行程, 固定端位于行程中央的应用 Chain length for long travels, fixed end in the center of travel

■ 拖链长度计算 Calculation of the chain length

固定端在行程中心为更佳解决方案

The fixed end in the center of the travel is the most cost-effective solution

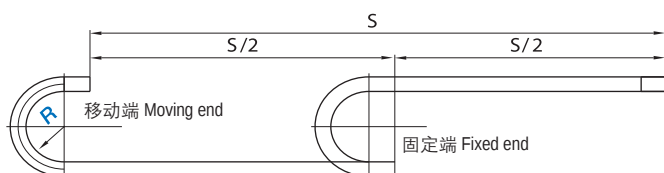
如果拖链固定端位于行程中央，则拖链长度等于行程一半加上 K 值（K 值可在样本的表格中查询）。固定端位于行程中央也是经济型的一种安装方法，拖链，电缆及管线的长度可以节省。

The chain length L_k is calculated by using half the length of travel and adding the value K if the fixed end of the chain is located in the center of the travel. You can get the value K from the size table in every series chain. It is the most cost-effective solution if Placing the fixed end in the center of the travel, Because it requires the shortest chain, cables and hoses.

$$L_k = S/2 + K$$

公式适用于所有固定端位于行程中央的应用。但旋转运动及长行程运动除外。

This formula is generally valid for all types of applications if the fixed end is in the center of the travel. Exceptions: circular movements and most long travels.



L_k = 拖链长度 Chain length

S = 行程 Length of travel

R = 弯曲半径 Bend radius

ΔM = 偏移中心点的距离 Deviation of the centre point

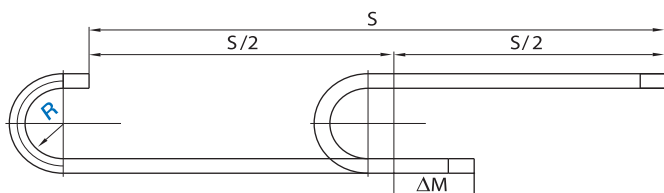
$K = \pi \times R + (2 \times T)$

T = 节距 Chain link pitch

$$L_k = S/2 + \Delta M + K$$

公式适用于所有固定端不在行程中央的应用。

This formula is valid if the fixed end is outside the center of the travel.



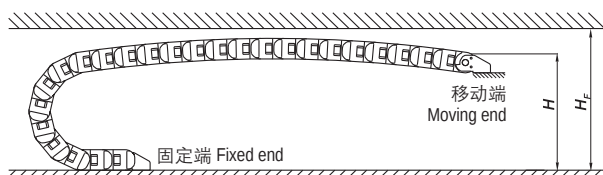
弯曲半径余量（K 值可在每个系列对应的表格中查询）

(K is taken from the data tables of the individual series)

■ 预应力 Camber

预应力指的是拖链运行时上部的上拱度。所有 CSB-PCC® 拖链都带有预应力，无预应力的产品可按要求提供。预应力可以延长使用寿命，增加架空长度。在所有拖链的安装尺寸描述中你都可以找到一个 H_F 值。这就是在考虑预应力的情况下实际安装高度。但空间受限时，我们可以按要求提供无预应力的拖链。但这类产品的承载力也与标准产品不同。

The largest possible unsupported length is influenced by the design, material and camber. Camber is the curve of the upper run along its unsupported length. All CSB-PCC® chains are manufactured with camber. In the Installation dimensions section of each respective chain description, you will find the measurement H_F , which specifies the necessary clearance height, taking the camber into account. The camber allows for longer unsupported lengths and increases service life and operating safety. Upon request, we can deliver chains without camber for restricted space applications - however, these no camber chains do not have the same load-bearing capacity.



拖链预应力原理， H_F = 实际安装高度

Principle of camber for CSB-PCC® chains H_F = required installation height

H = 理论安装高度 Nominal clearance height

H_F = 实际安装高度 Required clearance height

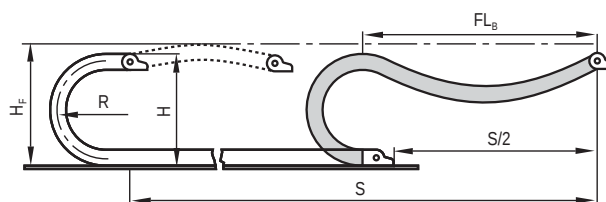
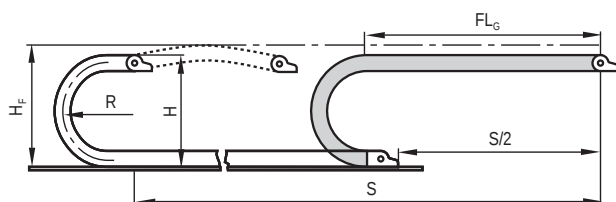
实际安装高度 - 取决于不同拖链的预应力。请查每一个产品页中查询此参数。

The necessary clearance height depends on the camber of the chain. Find values for the necessary clearance height H_F on each product page.

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

架空 | 短行程 Unsupported | Short travels



FL_G的应用可以达到最长的使用寿命，最大的速度及加速度。

The FL_G type of installation always generates the longest service life and can be operated with the max. values for speed and acceleration.

■ 架空应用 Unsupported applications

如果在整个行程中拖链的上部未接触下部。这种情况我们称之为架空。移动端到拖链弯曲半径圆弧的距离称之为架空长度。架空是更常用的应用。拖链非常适用高要求长使用寿命的场合。架空长度取决于拖链或拖管的类型以及内部负载。

If the upper run of the chain operates without touching the lower run over the entire travel, it is called an unsupported application. The distance between moving end and the beginning of the radius curve of the is called the unsupported length. The unsupported application is the most common. CSB-PCC® chains are very well suited for high dynamics and long service life. The maximum unsupported length depends on the fill weight and the type of chain or tube. As a result, we differentiate among three types of unsupported length.

01) FL_G—直线架空 Unsupported with straight upper run FL_G

FL_G是指拖链运行时上部有上拱，呈直线或者有10-50mm的塌腰。

FL_G使用是推荐的应用。拖链在这种情况下运行噪音更低，而且磨损更小。

The chain is unsupported FL_G when the upper run still has camber, is straight or has a maximum sag of 1/2 of the chain link height. Installing the chain in FL_G is always recommended. The runs smoothly without additional vibration.

02) FL_B—安全塌腰架空 Unsupported with permitted sag FL_B

FL_B-拖链运行时有大于10-50mm（根据不同拖链大小）的塌腰但又小

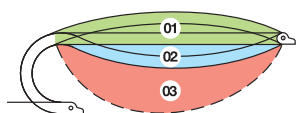
于最大塌腰的状态。FL_B应用在许多情况下是允许使用的，但当频率或加速度较大时很容易产生问题。

The chain is unsupported FL_B when the sag is more than 1/2 Chain link height and less than the smallest available radius of this CSB-PCC® series. In most applications the can be used unsupported FL_B without any problems. There are restrictions concerning the maximum speed and acceleration.

03) 危险塌腰 Critical sag

如果塌腰大于FL_B，则我们称之为危险塌腰。这种安装需要避免或者要有特殊的条件限定。当长时间后拖链或者拖管出现了危险塌腰，则表示需要更换。如果您的应用需要危险塌腰。

When the sag of the chain is higher than allowed for FL_B, it is in critical sag. Using an chain in critical sag should be avoided or solved with special solutions. An chain should never be installed with critical sag. Applications may reach critical sag after long service times. The chain or tube should be replaced in these cases.



01) FL_G—直接架空 Unsupported with straight upper run FL_G

02) FL_B—安全塌腰架空 Unsupported with permitted sag FL_B

03) 危险塌腰 Critical sag

应用 | 竖直悬挂 Vertical hanging | Application

■ 垂直，悬挂应用 Vertical, hanging applications

根据悬挂应用的原理，拖链可达到100米高度。使用内部分隔片的拖链能够在同一系统中安装不同的管线，而且不会相互缠绕。对于悬挂使用，我们推荐采用固定式接头。

For hanging applications, heights of over 100m are possible with CSB-PCC®. Particularly in the area of material flow technology, the chain enables a bundled supply of a wide variety of cable types. The use of an chain ensures that individual cables are not entangled in parts of shelves or protruding pallets. We recommend locking mounting brackets for vertical hanging applications.

■ 电缆及介质管 Cables and hoses

在垂直悬挂应用中有两个重要因素，即管线在拖链中的铺设方式以及在端点的固定方式：所有电缆及介质管都必须悬挂，以便承受自重。拖链只是起规范管线作用，而不承受任何附加张力。内部分隔片可用于明确分隔所有电缆及介质管。电缆及介质管必须可靠的固定在拖链的两端。这些设计的首先必须保证电缆能够自由移动，并承受自重。

Two important factors in vertical hanging applications are how the cables and hoses lay in the chains and how they are secured at the end points: all cables and hoses must be hung so that they bear their own weight. The chain fulfils the function of orderly conduit bundling only and should not absorb any further tensile forces. The chain interior separation elements should be used for distinct division of all cables and hoses. The cables and hoses must be secured carefully to both end points of the chain. The strain relief must be designed so that the opposite run cannot catch. Safe strain relief and clear separation of the cables and hoses are the basic prerequisites for hanging installations. Cables must be able to move freely and bear their own weight.

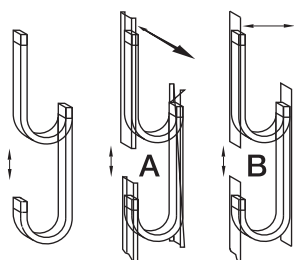


CSB-PCC® 拖链悬挂应用
Hanging applications CSB-PCC®

■ 存在横向加速度的垂直运动 Vertical motion with lateral acceleration

如果存在横向加速度，则大多数拖链必须安装挡板。左图即显示了这个原理。也可部分安装挡板，但是它必须至少覆盖拖链可能摇摆处。如果可以选择，应优先考虑图A方案。拖链侧面的附加导向装置有助于进一步的稳定拖链。

If the application has a purely vertical movement without lateral acceleration, a lateral support is not necessary. If lateral acceleration occurs, lateral guidance of the chain must be provided in most cases. The diagram shows the principle of such guidance. Partial guidance is also an option however, it must at least cover the area in which the chain may sway. Lateral acceleration can occur in two directions. The lateral guidance must be installed accordingly. If you have a choice, the layout in figure A is preferred. The lateral acceleration then acts transversely to the chain, where it is more stable. When using a guide, an chain with camber should be selected. This ensures that the chain is pressed into the trough.



在大多数情况下，垂直运动不要求采用横向导向装置

In most cases, vertical motion applications do not require lateral guidance

两个方向都可能存在横向加速度时必须提供导向

Lateral acceleration can occur in two directions. Guidance is necessary

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

应用 | 竖直站立 Vertical standing | Application

■ 垂直-站立应用 Vertical standing applications

站立使用广泛应用于各种机器设备中，以引导电缆沿垂直直线方向运动。

Standing applications are standard on many machines and plants. Cables will be guided safely in vertical strokes.

■ 接头 Mounting brackets

必须使用接头，以确保拖链正常运行。我们强烈推荐使用固定式接头，因为这种接头能够与机器平齐连接。

The mounting brackets must be attached so that the chain cannot bow outwards. Locking mounting brackets are highly recommended because they can be attached flush to the machine.

■ 电缆及介质管 Cables and hoses

电缆及介质管必须铺设在拖链中，以便自由弯曲。为了精确引导电缆及介质管，我们强烈推荐使用内部分隔片模块。电缆必须在拖链两端用去应力元件固定。

Cables and hoses must be laid in the chain so that they can bend freely and bear their own weight. For precise guidance of the cables and hoses, we strongly recommend interior separation elements. Cables must be strain relieved at both ends.

■ 横向加速度 Lateral acceleration

如果存在横向加速度，拖链应沿着外半径方向提供支撑。对于更高的拖链高度，通常建议至少沿着外半径方向支撑三个链节。如果高度及重量达到最大值，通常必须支撑整个拖链。由于重量、行程高度、拖链类型及弯曲半径存在各种组合方式。我们建议您和我们联系。

If lateral acceleration occurs, the chain should, in most cases, be supported along the outer radius. For higher chain heights, it is generally recommended that at least the first three links on the outer radius be supported. For maximum heights and weights, the whole distance must often be supported. Due to the wide variety of combinations involving fill weights, stroke heights, chain types and bend radius, we recommend you contact with us.

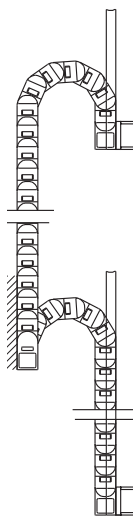
■ 组合运动 Combined motion

拖链可实现垂直与水平方向的组合运动，以节省成本。

Combined vertical and horizontal movements are possible with CSB-PCC® chains for a cost-saving solution.



固定式接头
Locking mounting brackets



站立应用选项：右侧配有U型档板 - 左侧

Options for a standing application with support of the first chainlinks: on the right, with U-shaped guidance - on the left, with the support of the first chain links

应用 | 侧倒安装 Side-mounted | Application

■ 侧向安装拖链 Side-mounted Chains

拖链侧向安装时架空长度有限。这种情况下的“架空长度”取决于下列几个因素：

CSB-PCC® chains placed on their side can be used unsupported to a limited extent. The turned unsupported length in this case is dependent on the following factors:

1. 负载 Fill weight
2. 拖链宽度 Width of the chain
3. 弯曲半径 Bend radius
4. 平行布置 Parallel placement

对于侧向安装使用，我们建议使用固定式接头

We recommend locking mounting brackets for sidemounted applications

拖链负载越大，架空长度越短。如果侧向安装，则拖链宽度即为高度。由于“高度”增加，拖链系统的稳定性相应得到提高。较小的弯曲半径可进一步提高稳定性。如果在两条拖链的平行运动中增加第二轴附加运动，会使架空长度缩短。对于负载较低的应用，使用标准接头即可。但是，如果负载较高，行程较长，则拖链必须配有整体或部分支撑。由于应用可能性多种多样。

The greater the fill weight of the chain, the shorter the available unsupported length. When placed on its side, the chain width, in effect, becomes the height. As this height increases, the chain becomes proportionally more stable. If further movement in a second axis is added to the parallel motion of two chains, the unsupported length is impaired. For applications with low fill weight, the standard mounting chain is supported brackets are adequate. If, however, the fill weight is high and the travels are long, the chain must then be supported either in whole or in part. Due to the variety of application possibilities, we strongly recommend you make use of our consulting services.

如果安装高度有限，强烈推荐采用侧向安装拖链

Side-mounted chains are strongly recommended if the installation height is restricted

根据客户要求，可提供侧向安装架空长度标准值，架空长度可通过支撑接头旁的链节得以延伸

Standard values for unsupported lengths, side-mounted, upon request. The unsupported lengths can be extended by supporting the links next to the mounting brackets



侧向架空安装拖链，一侧带支撑

The lying chain, one side of the chain is supported

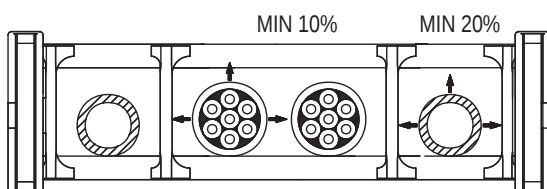
CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

电缆或者软管在拖链中的布置 Distribution rules | Cables and hoses

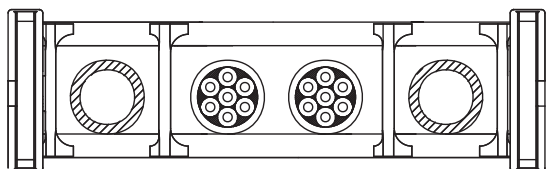
为了保证拖链的功能正常并且为了避免其中的电缆或者软管遭到损伤，在布置电缆或者软管时必须遵守某些原则：

In order to ensure that the chain is functioning properly and to avoid damage to the cables or hoses, the following principles must be observed when laying cables or hoses:



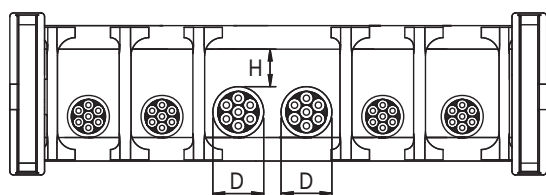
电缆与周围空间及其他电缆之间要留出至少10%电缆直径的距离，液压管线至少要留出20%。

This minimum clearance would be 10% for electrical round cables, 20% for hydraulic hoses.



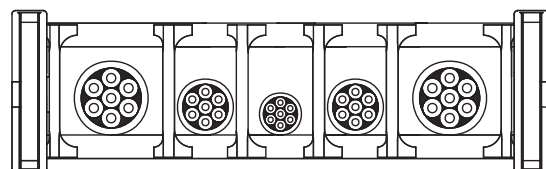
为了减少可能存在的摩擦，避免电缆或者软管等具有不同外皮材质的管线放置在一起。（例如，电缆与液压管线）

In order to reduce the possible friction, avoid pipes with different skin materials such as cables or hoses. (eg: cable and hydraulic hoses)



在有多根电缆和软管的应用中，为了避免它们之间的相互摩擦，最好将它们放置在适当的独立空间内并且用隔片将它们相互分隔。如果没有条件实现，则要确保它们之间留有足够的空间以免发生相互摩擦 ($H < D$)。

In applications where multiple cables and hoses are used, in order to avoid mutual friction between them, it is preferable to place them in a suitable separate space and separate them from each other with a spacer. If there are no conditions to achieve, make sure there is enough space between them to avoid mutual friction ($H < D$).



布置电缆或者软管的时候要根据它们的直径和重量以对称的方式进行布置，最大和最重的电缆放置在截面的最外侧，小的和轻的电缆放在内侧。

The cables or hoses are laid in a symmetrical manner according to their diameter and weight. The largest and heaviest cables are placed on the outside of the section and the small and light cables are placed on the inside.

材料技术参数 Material properties data

项目 Item	标准 Method	单位 Unit	M163	M107	ESD9
颜色 Color			黑色 Black	黑色 Black	黑色 Black
密度 Density	ISO1183	g/cm ³	1.37	1.14	1.2
RH50/23℃时的吸湿性 Max. moisture absorption at +23℃ /RH50%	ISO 62	%	1.8	3.4	1.9
最大吸水率 Maximum water absorption	ISO 62	%	6.4	7.6	7.3
屈服应力[干/湿] Yield stress [dry/wet]	ISO 527	MPa	190/130	80/40	150/100
断裂伸长率[干/湿] Elongation at break [dry/wet]	ISO 527	%	2.8/6	40/>50	2.5/4.5
拉伸模量[干/湿] Tensile modulus [dry/wet]	ISO 527	MPa	11000/7250	3200/1000	11500/7500
弯曲模量[干/湿] Flexural modulus [dry/wet]	ISO 178	MPa	9800/7000	2800/900	8900/6300
弯曲强度 Flexural strength [dry/wet]	ISO 178	MPa	250/155	105/35	230
邵氏硬度 Shore hardness	ISO 868	D	79	79	83
连续工作温度 Continuous work temperature		℃	-40/+120	-40/+80	-40/+80
短时运行温度 Short-time work temperature		℃	-40/+180	-40/+170	-40/+150
体积电阻率 Volume resistivity	IEC60093	Ω·cm	>10 ¹¹	>10 ¹¹	<10 ⁹
面电阻率 Surface resistivity	IEC60093	Ω	>10 ¹¹	>10 ¹¹	<10 ⁹
阻燃性能 Flammability	UL94	Class	HB	V2	HB
无硅 Silicone-free			+	+	+
无卤 Halogen-free			+	+	+
2002/95/EG(RoHS)			+	+	+

化学抗性表 Chemical resistance

介质 Medium	含量 Concentration % weight	M163	M107	ESD9
醋酸 Acetic acid	2	++	++	++
丙酮 Acetone	100	++	++	++
氨 (溶液) Ammonia (aqueous)	10	++	++	++
苯类 Benzene	100	++	++	++
沥青 Bitumen	100	+	+	+
硼酸 (溶液) Boric acid (aqueous)	10	++	++	++
丁酸 Butyric acid	100	+	+	+
氯化钙 (溶液) Calcium chloride (aqueous)	Sat. aq. sol.	++	++	++
苛性钾 Caustic potash	10	++	++	++
氯化烃 Chlorinated hydrocarbons		++	++	++
氯水 Chlorine water	Sat. aq. sol.	-	-	-
铬酸 (溶液) Chromic acid (aqueous)	1	+	+	+
颜色 Colour		++	++	++
柴油 Diesel oil	100	++	++	++
烹饪用脂肪 Fats, cooking fat		++	++	++
氟化烃 Fluorinated hydrocarbons		++	++	++
甲醛 (溶液) Formaldehyde (aqueous)	30	+	+	+
甲酸 (溶液) Formic acid (aqueous)	2	+	+	+
汽油 Gasoline	100	++	++	++
液压油 Hydraulic oils		++	++	++
盐酸 Hydrochloric acid	PH2	+	+	+
盐酸 Hydrochloric acid	2	+	+	+
盐酸 Hydrochloric acid	10	-	-	-
油墨 Ink, printing ink		++	++	++

介质 Medium	含量 Concentration % weight	M163	M107	ESD9
汞 Mercury		++	++	++
乙酸甲酯 Methyl acetate	100	++	++	++
牛奶 Milk		++	++	++
矿物油 Mineral oil		++	++	++
烹饪用油 Oil, cooking		++	++	++
润滑油 Oil, lubricating oil		++	++	++
油酸 Oleic acid	100	++	++	++
石蜡油 Paraffin oil		++	++	++
四氯乙烯 Perchloroethylene	100	++	++	++
聚酯树脂 (含苯乙烯) Polyester resins (with styrene)		++	++	++
碳酸钾 (溶液) Potassium carbonate (aqueous)	60	++	++	++
硫酸钾 (溶液) Potassium sulphate (aqueous)	100	++	++	++
丙烷气 Propane gas		++	++	++
碳酸钠 (溶液) Sodium carbonate (aqueous)	50	++	++	++
酒石酸 Tartaric acid		+	+	+
凡士林 Vaseline		++	++	++
硫酸锌 (溶液) Zinc sulphate (aqueous)	10	++	++	++

++ 完全抵抗 Resistant
+ 有条件抵抗 Conditionally resistant
- 无抵抗 Non-resistant
Sat. aq. sol. 饱和水溶液 Saturated aqueous solution

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

C01 微型电缆拖链 Micro cable chains

C01微型电缆拖链体积小，基于一片式设计重量特别适用于高速运动。C01微型电缆拖链适用于狭小安装空间，多种尺寸规格可选。

C01 micro cable chains are very small, one piece chains with low weight, making them ideal for highly dynamic applications. C01 micro cable chains are optimal for the smallest installation spaces, and are available in many versions.



一片式设计不可打开
One-piece design, non-openable



阻燃等级 Flammability Class
UL94 HB



符合CE 标准 certification



RoHS认证 certification



低噪音 Low-noise



根据需求提供ESD抗静电荷/防爆版拖链C01E
Electrically conductive ESD/ATEX version C01E upon request

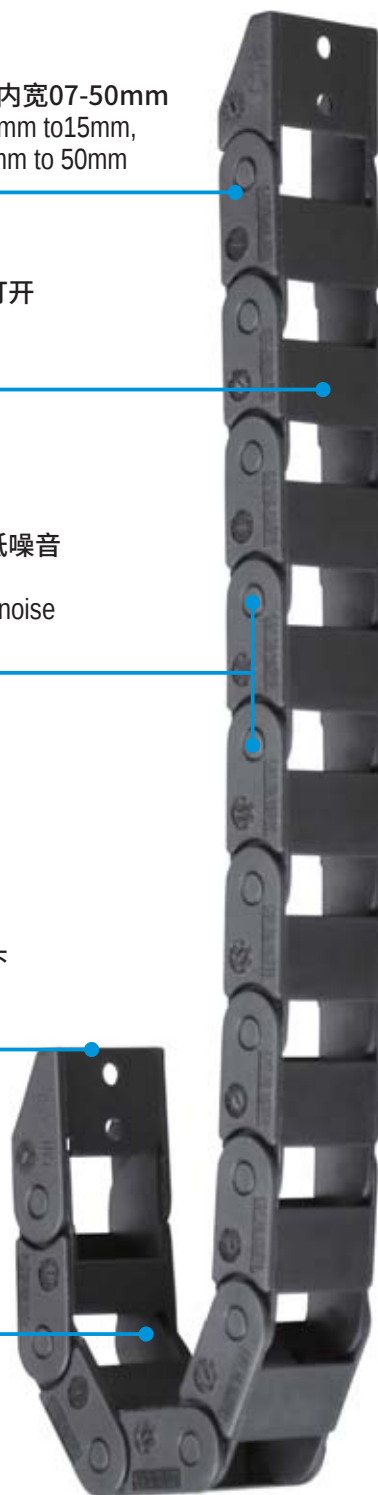
内高07-15mm，内宽07-50mm
Inner height from 7mm to 15mm,
Inner width from 7mm to 50mm

一片式设计不可打开
One-piece design
Non-openable

小节距设计实现低噪音
顺畅运行
Small pitch for low-noise
Smooth running

可选带梳妆板接头
With tie-wrap plates
are available

极小转弯半径
Smallest bend
radius



C01

CSB-PCC®

www.csb-ep.com
sales@csb-ep.com

Tel: 0086 573 84186133/84185527
Fax: 0086 573 84185517

标准尺寸 Standard dimensions

微型电缆拖链 Micro cable chains	产品编码 Part No.	内宽 Bi	外宽 Ba	内高 Hi	外高 Ha	弯曲半径 R	架空长度	页码
		Inner width [mm]	Outer width [mm]	Inner height [mm]	Outer height [mm]	Bend radius [mm]	Unsupported length [m]	Page
	C01.07	7-30	12-35	7	10	15-48	≤0.5	P24
	C01.10	10-30	14-34	10	12	18-38	≤0.5	P26
	C01.15	16-50	24.2-58.2	15	19.3	25-48	≤0.7	P28

安装说明 Installation



扭转并卡合
Twist and click



扭转并分开
Twist and divide

典型适用行业和应用 Typical Applicable Industries and Applications

- 车辆制造
- 自动门
- 测量机
- 电子设备
- 拾放机器人
- 医疗行业
- 打印机和绘图仪
- 半导体机器
- Vehicle construction
- Automatic doors
- Measuring machines
- Electric equipment
- Pick & place robots
- Medical industries
- Printer and plotter
- Semi-conductor machines

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

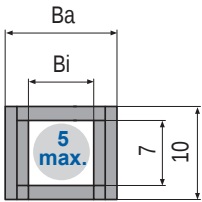
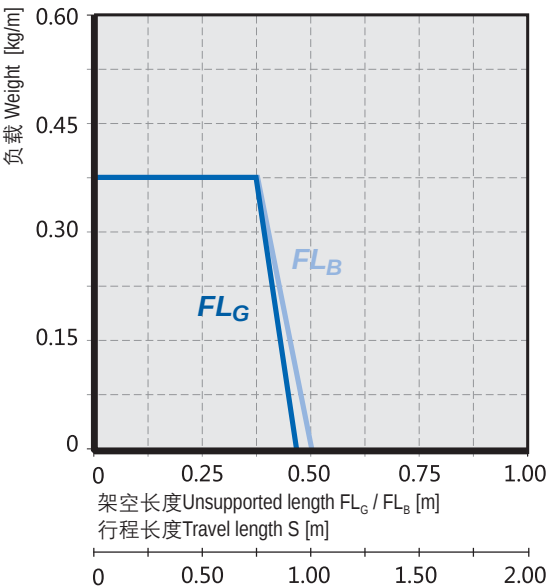
C01.07 微型电缆拖链 Micro cable chains



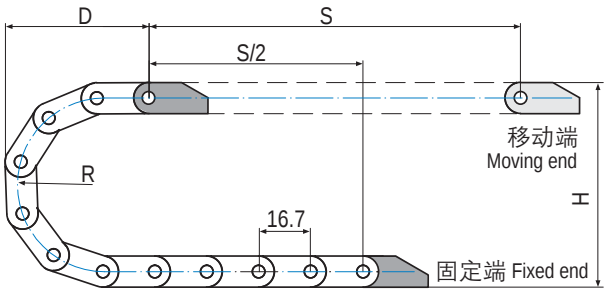
标准尺寸 Standard dimensions

产品编码 Part No.	内宽 Bi Inner width [mm]	外宽 Ba Outer width [mm]	内高 Hi Inner height [mm]	外高 Ha Outer height [mm]	弯曲半径 R Bend radius [mm]					重量 Weight [kg/m]
C01.07.07	7	12	7	10	015	018	028	038	048	0.07
C01.07.10	10	15	7	10	015	018	028	038	048	0.08
C01.07.16	16	21	7	10	015	018	028	038	048	0.09
C01.07.20	20	25	7	10	015	018	028	038	048	0.10
C01.07.30	30	35	7	10	015	018	028	038	048	0.11

安装尺寸 Installation dimensions



内高 Inner height Bi: 7mm
节距 Link pitch T: 16.7mm
链节数 Link quantity: 60pcs/m
安装高度 Clearance height H_F: H+10mm
拖链长度 Chain length: S/2+K

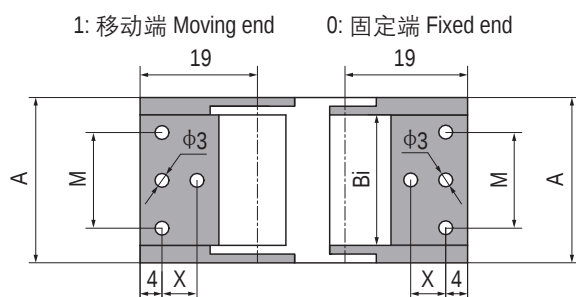


*如果安装空间受到限制请咨询CSB®. Please consult CSB® if space is particularly restricted.

R	015	018	028	038	048
H	40	46	66	86	106
D	45	48	58	68	78
K	85	90	125	155	185

实际安装高度 The required clearance height: H_F=H+10mm (负载 Fill weight 0.1kg/m)

拖链接头尺寸 Mounting bracket dimensions



产品编码 Part No.:

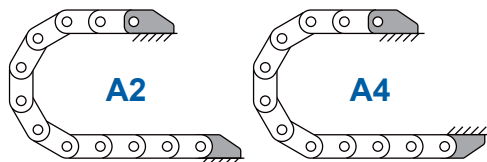
C01.07.07.0



0: 固定端 Fixed end
1: 移动端 Moving end
拖链内宽 Inner width
拖链内高 Inner height
拖链系列 Chain series

产品编码(移动端) Part No. (Moving end)	产品编码(固定端) Part No. (Fixed end)	拖链内宽 Inner width Bi [mm]	A [mm]	X [mm]	M [mm]
C01.07.07.1	C01.07.07.0	07	12	8	/
C01.07.10.1	C01.07.10.0	10	15	8	/
C01.07.16.1	C01.07.16.0	16	21	8	/
C01.07.20.1	C01.07.20.0	20	25	8	/
C01.07.30.1	C01.07.30.0	30	35	/	22

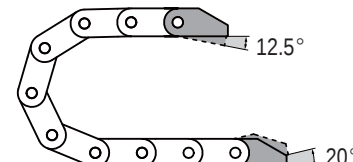
接头安装方式 Mounting bracket installation optional



*C01.07拖链接头安装方式示意图 Possible installation configurations

*A2/A4订购预装配拖链请注明安装方式 Please indicate installation code for pre-assembled chains

特殊配置 Special optional



*特殊配置请咨询CSB®

Please contact CSB® for special optional

① 技术参数 Installation dimensions

	架空长度 Unsupported length	≤ 0.5m	速度/ 加速度 Speed / acceleration FL _G	≤ 3 [m/s] / 8 [m/s ²]
	滑行距离 Sliding length	不适用 Inapplicable	速度/ 加速度 Speed / acceleration FL _G	≤ 2 [m/s] / 4 [m/s ²]
	竖直悬挂 Vertical hanging	≤ 5m	滑行速度/ 加速度 Sliding speed / acceleration	不适用 Inapplicable
	垂直站立 Vertical standing	≤ 0.5m	允许温度 Permitted temperature	-40℃ ~120℃
	侧向架空 Side-unsupported length	≤ 0.5m	阻燃等级 Flammability Class	UL94 HB

🛒 预装拖链订购编码 Order code for pre-assembled cable chains

拖链本体 Body					选配 Optional
C01 . 07 . 07 . 018 . 020					A2
拖链系列 Chain series	内高 Inner height	内宽 Inner width	弯曲半径 Bend radius	链节数量 Link quantity	接头安装形式 Mounting bracket installation code

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

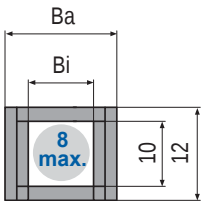
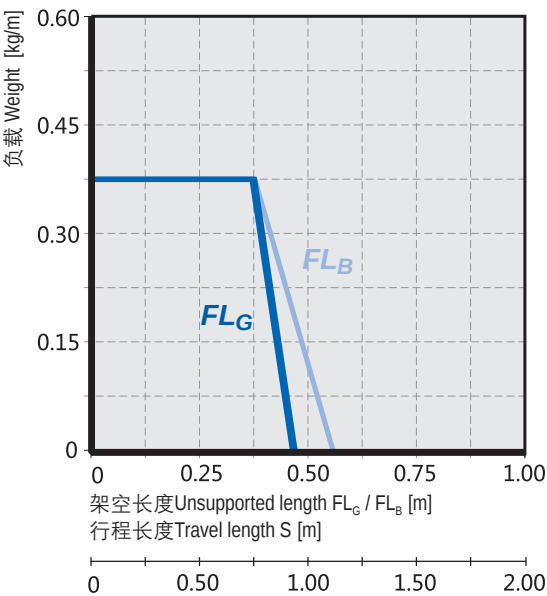
C01.10 微型电缆拖链 Micro cable chains



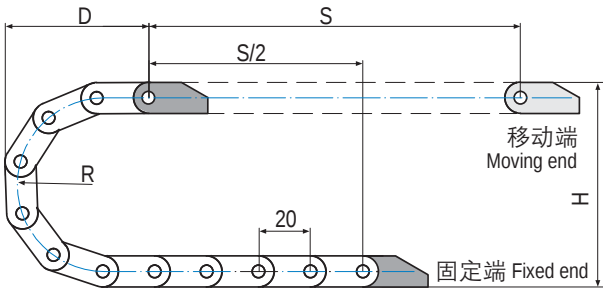
标准尺寸 Standard dimensions

产品编码 Part No.	内宽 Bi Inner width [mm]	外宽 Ba Outer width [mm]	内高 Hi Inner height [mm]	外高 Ha Outer height [mm]	弯曲半径 R Bend radius [mm]			重量 Weight [kg/m]
C01.10.10	10	14	10	12	018	028	038	0.07
C01.10.16	16	20	10	12	018	028	038	0.08
C01.10.20	20	24	10	12	018	028	038	0.09
C01.10.30	30	34	10	12	018	028	038	0.09

安装尺寸 Installation dimensions



内高 Inner height Bi: 10mm
节距 Link pitch T: 20mm
链节数 Link quantity: 50pcs/m
安装高度 Clearance height H_F: H+10mm
拖链长度 Chain length: S/2+K

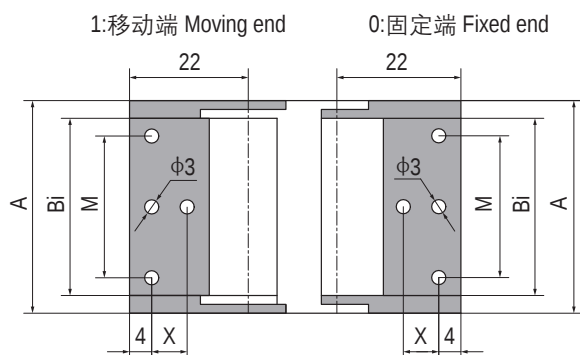


*如果安装空间受到限制请咨询CSB®. Please consult CSB® if space is particularly restricted.

R	018	028	038
H	48	68	88
D	54	64	74
K	100	130	160

实际安装高度 The required clearance height: H_F=H+10mm (负载 Fill weight 0.2kg/m)

拖链接头尺寸 Mounting bracket dimensions



产品编码 Part No.:

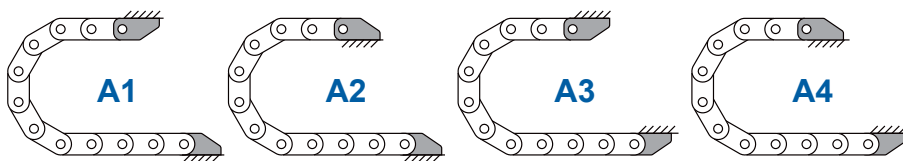
C01.10.10.0



0: 固定端 Fixed end
1: 移动端 Moving end
拖链内宽 Inner width
拖链内高 Inner height
拖链系列 Chain series

产品编码 Part No.	拖链内宽 Inner width Bi [mm]	A [mm]	X [mm]	M [mm]
C01.10.10.0/1	10	14.7	8	/
C01.10.16.0/1	16	20.7	8	/
C01.10.20.0/1	20	24.7	8	/
C01.10.30.0/1	30	34.7	/	22

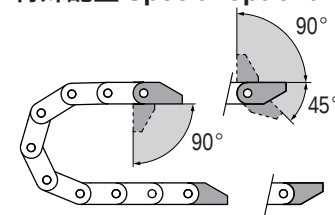
接头安装方式 Mounting bracket installation optional



*C01.10拖链接头安装方式示意图 Possible installation configurations

*A1/A2/A3/A4订购预装配拖链请注明安装方式 Please indicate installation code for pre-assembled chains

特殊配置 Special optional

*特殊配置请咨询CSB®
Please contact CSB® for special optional

① 技术参数 Installation dimensions

	架空长度 Unsupported length	≤ 0.5m	速度/ 加速度 Speed / acceleration FL _G	≤ 3 [m/s] / 8 [m/s²]
	滑行距离 Sliding length	不适用 Inapplicable	速度/ 加速度 Speed / acceleration FL _B	≤ 2 [m/s] / 4 [m/s²]
	竖直悬挂 Vertical hanging	≤ 5m	滑行速度/ 加速度 Sliding speed / acceleration	不适用 Inapplicable
	垂直站立 Vertical standing	≤ 0.5m	允许温度 Permitted temperature	-40℃ ~120℃
	侧向架空 Side-unsupported length	≤ 0.5m	阻燃等级 Flammability Class	UL94 HB

🛒 预装拖链订购编码 Order code for pre-assembled cable chains

拖链本体 Body					选配 Optional
C01 . 10 . 10 . 018 . 020 .					A1
拖链系列 Chain series	内高 Inner height	内宽 Inner width	弯曲半径 Bend radius	链节数量 Link quantity	接头安装形式 Mounting bracket installation code

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

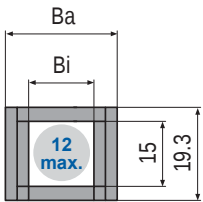
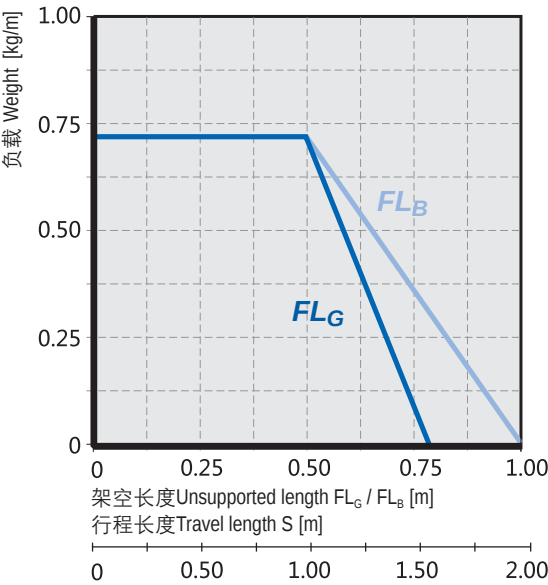
C01.15 微型电缆拖链 Micro cable chains



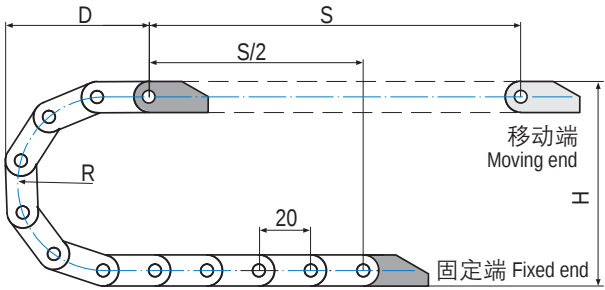
标准尺寸 Standard dimensions

产品编码 Part No.	内宽 Bi	外宽 Ba	内高 Hi	外高 Ha	弯曲半径 R				重量
	Inner width [mm]	Outer width [mm]	Inner height [mm]	Outer height [mm]	Bend radius [mm]				Weight [kg/m]
C01.15.16	16	24.2	15	19.3	025	028	038	048	0.24
C01.15.20	20	28.2	15	19.3	025	028	038	048	0.25
C01.15.30	30	38.2	15	19.3	025	028	038	048	0.28
C01.15.40	40	48.2	15	19.3	025	028	038	048	0.31
C01.15.50	50	58.2	15	19.3	025	028	038	048	0.37

安装尺寸 Installation dimensions



内高 Inner height Bi: 15mm
节距 Link pitch T: 20mm
链节数 Link quantity: 50pcs/m
安装高度 Clearance height H_F: H+10mm
拖链长度 Chain length: S/2+K

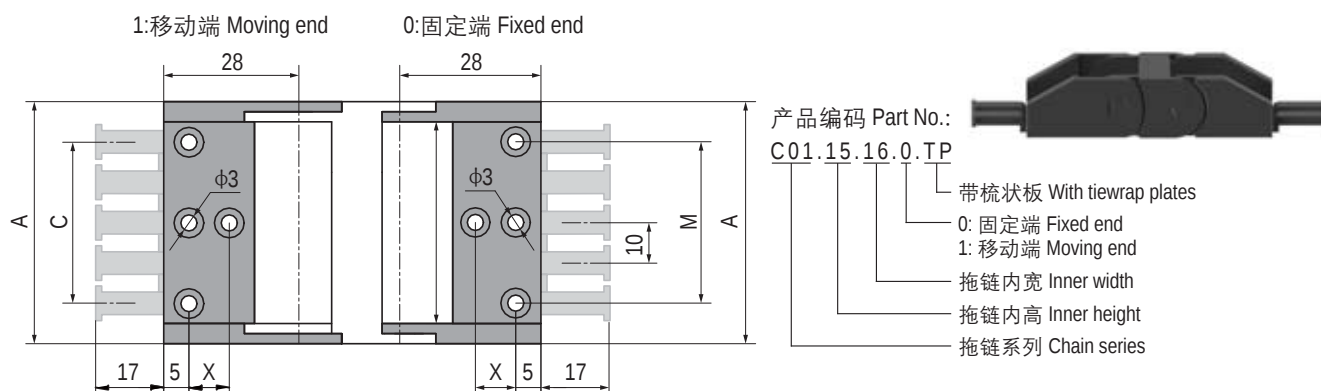


*如果安装空间受到限制请咨询CSB®. Please consult CSB® if space is particularly restricted.

R	025	028	038	048
H	69	75	95	115
D	65	68	78	88
K	120	130	160	195

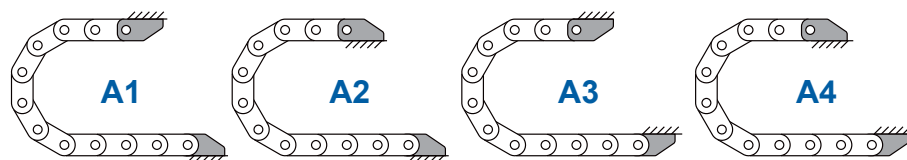
实际安装高度 The required clearance height: H_F=H+15mm (负载 Fill weight 0.3kg/m)

拖链接头尺寸 Mounting bracket dimensions



不带梳状板接头编码 Without tiwrap plates	带梳状板接头编码 With tiwrap plates	拖链内宽 Inner width Bi [mm]	A [mm]	X [mm]	M [mm]	C [mm]	齿数 Number of teeth [pcs]
C01.15.16.0/1	C01.15.16.0/1.TP	16	24.2	8	/	10	2
C01.15.20.0/1	C01.15.20.0/1.TP	20	28.2	8	/	10	2
C01.15.30.0/1	C01.15.30.0/1.TP	30	38.2	8	22	20	3
C01.15.40.0/1	C01.15.40.0/1.TP	40	48.2	8	32	30	4
C01.15.50.0/1	C01.15.50.0/1.TP	50	58.2	8	42	40	5

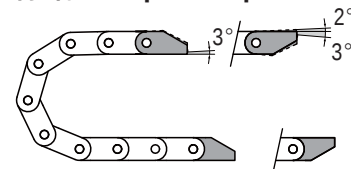
接头安装方式 Mounting bracket installation optional



*C01.15拖链接头安装方式示意图 Possible installation configurations

*A1|A2|A3|A4订购预装配拖链请注明安装方式 Please indicate installation code for pre-assembled chains

特殊配置 Special optional



*特殊配置请咨询CSB®

Please contact CSB® for special optional

① 技术参数 Installation dimensions

	架空长度 Unsupported length	≤ 0.7m	速度/ 加速度 Speed / acceleration FL _G	≤ 3 [m/s] / 8 [m/s ²]
	滑行距离 Sliding length	不适用 Inapplicable	速度/ 加速度 Speed / acceleration FL _B	≤ 2 [m/s] / 4 [m/s ²]
	竖直悬挂 Vertical hanging	≤ 5m	滑行速度/ 加速度 Sliding speed / acceleration	不适用 Inapplicable
	垂直站立 Vertical standing	≤ 0.5m	允许温度 Permitted temperature	-40℃ ~120℃
	侧向架空 Side-unsupported length	≤ 0.5m	阻燃等级 Flammability Class	UL94 HB

🛒 预装拖链订购编码 Order code for pre-assembled cable chains

拖链本体 Body					选配 Optional	
C01 . 15 . 16 . 025 . 020					A1 . TP	
拖链系列 Chain series	内高 Inner height	内宽 Inner width	弯曲半径 Bend radius	链节数量 Link quantity	接头安装形式 Mounting bracket installation code	带梳状板 With tiwrap plates

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

C11 易填充微型电缆拖链

Micro cable chains, open design and cable filled quickly

C11易填充微型电缆拖链体积极小，基于一片式开口设计重量轻且便于快速填充电缆，同样适用于高速运动。C11微型电缆拖链适用于较小安装空间，多种尺寸规格可选。

C11 micro cable chains are very small, one piece and open design chains with low weight, making them ideal for highly dynamic applications and cables filled quickly. C11 micro cable chains are optimal for the smallest installation spaces, and are available in many versions.



开口设计，易填充电缆
Open design, easy to fill cables



阻燃等级 Flammability Class
UL94 V2



符合CE 标准 certification



RoHS认证 certification



低噪音 Low-noise



根据需求提供ESD抗静电荷/防爆版拖链C11E
Electrically conductive ESD/ATEX version C11E upon request

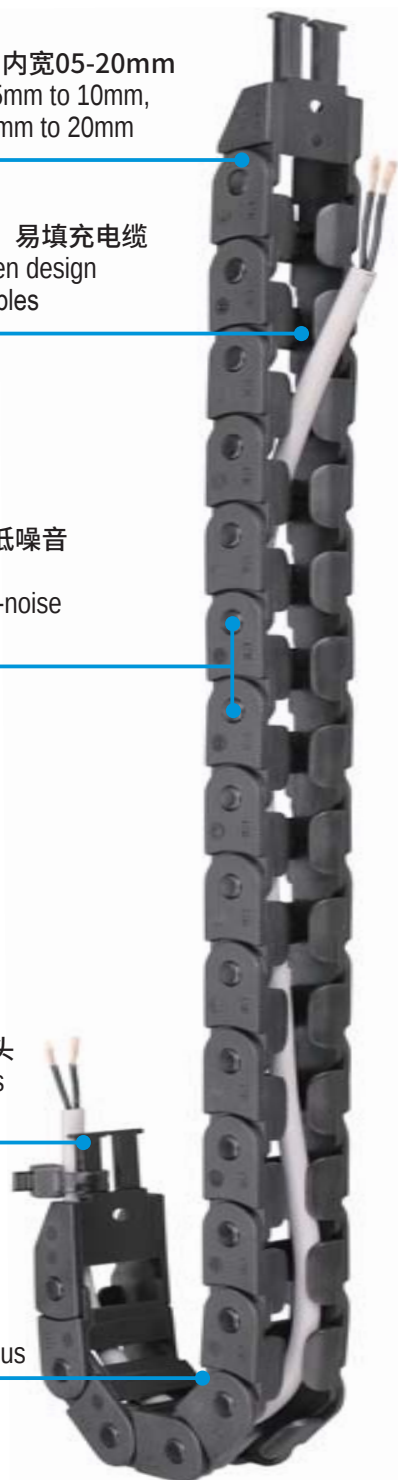
内高05-10mm，内宽05-20mm
Inner height from 5mm to 10mm,
Inner width from 5mm to 20mm

一片式开口设计，易填充电缆
One-piece and open design
Very easy to fill cables

小节距设计实现低噪音
顺畅运行
Small pitch for low-noise
Smooth running

可选带梳妆板接头
With tiwrap plates
are available

极小转弯半径
Smallest bend radius



C11

CSB-PCC®

www.csb-ep.com
sales@csb-ep.com

Tel: 0086 573 84186133/84185527
Fax: 0086 573 84185517

标准尺寸 Standard dimensions

易填充微型电缆拖链 Micro cable chains, open design and cable filled quickly	产品编码 Part No.	内宽 Bi	外宽 Ba	内高 Hi	外高 Ha	弯曲半径 R	架空长度	页码
		Inner width [mm]	Outer width [mm]	Inner height [mm]	Outer height [mm]	Bend radius [mm]	Unsupported length [m]	Page
	C11.05	5-10	8.7-13.7	5	8	10-18	≤0.3	P32
	C11.07	7-30	12-35	7	10	15-48	≤0.5	P34
	C11.10	10-20	16.5-26.5	10	15	18-38	≤0.5	P36

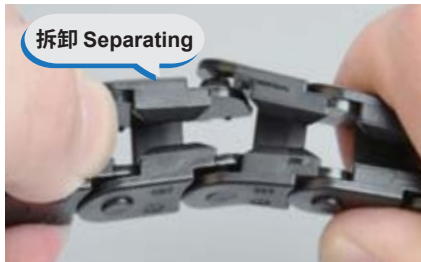
安装说明 Installation



扭转并卡合
Twist and click



压装电缆
Press in cable



扭转并分开
Twist and divide

典型适用行业和应用 Typical Applicable Industries and Applications

- 通用机械
- 洁净室应用
- 电子设备
- 办公设备
- 自动售货机
- 测量设备
- 包装机
- 医疗行业
- General machinery
- Cleanroom applications
- Electronic apparatus
- Office equipment
- Vending machines
- Measuring equipment
- Packaging machines
- Medical industries

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

C11.05 易填充微型电缆拖链 Micro cable chains, open design and cable filled quickly

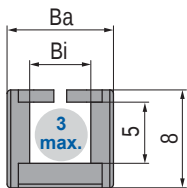
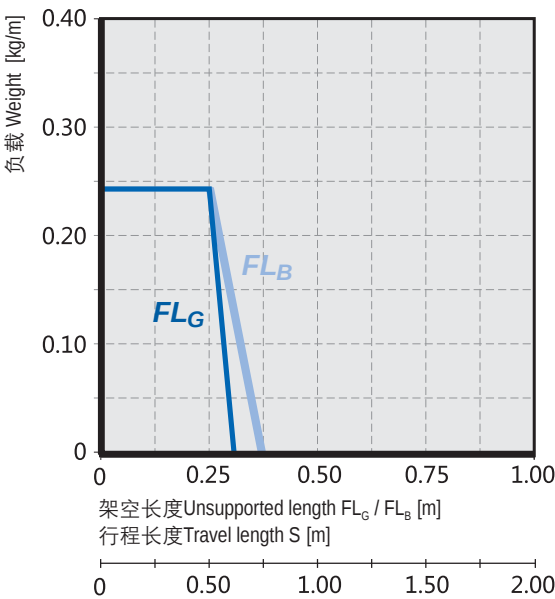


标准尺寸 Standard dimensions

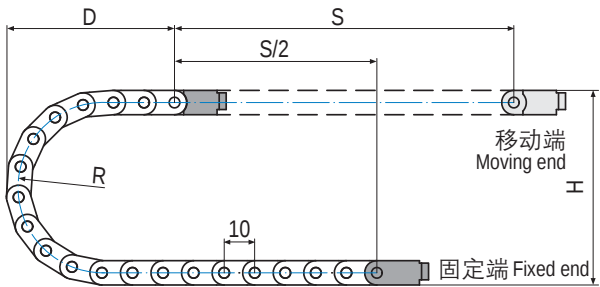
产品编码 Part No.	内宽 Bi	外宽 Ba	内高 Hi	外高 Ha	弯曲半径 R				重量
	Inner width [mm]	Outer width [mm]	Inner height [mm]	Outer height [mm]	Bend radius [mm]				Weight [kg/m]
C11.05.05	5	8.7	5	8	010	012	015	018	0.03
C11.05.07	7	10	5	8	010	012	015	018	0.04
C11.05.10	10	13.7	5	8	010	012	015	018	0.05

*根据要求提供 Available upon request

安装尺寸 Installation dimensions



内高 Inner height Bi: 5mm
节距 Link pitch T: 10mm
链节数 Link quantity: 100pcs/m
安装高度 Clearance height H_F: H+10mm
拖链长度 Chain length: S/2+K

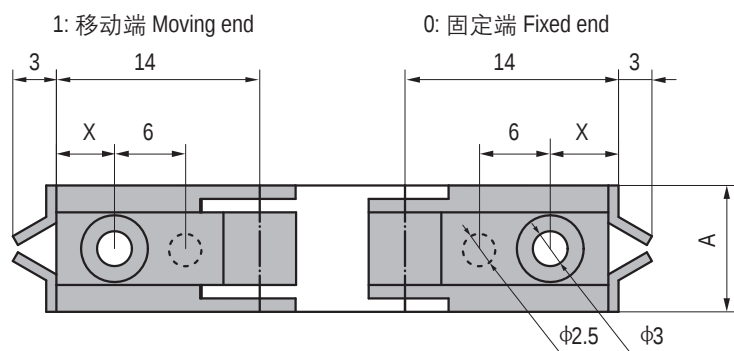


*如果安装空间受到限制请咨询CSB®. Please consult CSB® if space is particularly restricted.

R	010	012	015	018
H	28	32	38	44
D	29	31	34	37
K	55	60	70	80

实际安装高度 The required clearance height: H_F=H+10mm (负载 Fill weight 0.1kg/m)

拖链接头尺寸 Mounting bracket dimensions



产品编码 Part No.:

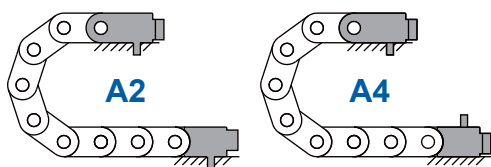
C11.05.05.0

0: 固定端 Fixed end
1: 移动端 Moving end
拖链内宽 Inner width
拖链内高 Inner height
拖链系列 Chain series

产品编码 Part No.	拖链内宽 Inner width Bi [mm]	A [mm]	X [mm]
C11.05.05.0/1	05	8.7	4
C11.05.07.0/1	07	10.7	4
C11.05.10.0/1	10	13.7	4

*根据要求提供 Available upon request

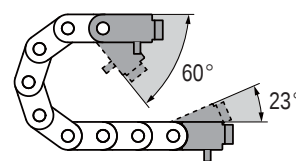
接头安装方式 Mounting bracket installation optional



*C11.05拖链接头安装方式示意图 Possible installation configurations

*A2/A4订购预装配拖链请注明安装方式 Please indicate installation code for pre-assembled chains

特殊配置 Special optional



*特殊配置请咨询CSB®

Please contact CSB® for special optional

① 技术参数 Installation dimensions

	架空长度 Unsupported length	≤ 0.3m	速度/ 加速度 Speed / acceleration FL _G	≤ 3 [m/s] / 8 [m/s²]
	滑行距离 Sliding length	不适用 Inapplicable	速度/ 加速度 Speed / acceleration FL _B	≤ 2 [m/s] / 4 [m/s²]
	竖直悬挂 Vertical hanging	≤ 5m	滑行速度/ 加速度 Sliding speed / acceleration	不适用 Inapplicable
	垂直站立 Vertical standing	≤ 0.5m	允许温度 Permitted temperature	-40 °C ~120 °C
	侧向架空 Side-unsupported length	≤ 0.5m	阻燃等级 Flammability Class	UL94 V2

🛒 预装拖链订购编码 Order code for pre-assembled cable chains

拖链本体 Body					选配 Optional
C11 . 05 . 05 . 010 . 020 .					A2
拖链系列 Chain series	内高 Inner height	内宽 Inner width	弯曲半径 Bend radius	链节数量 Link quantity	接头安装形式 Mounting bracket installation code

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

C11.07 易填充微型电缆拖链 Micro cable chains, open design and cable filled quickly

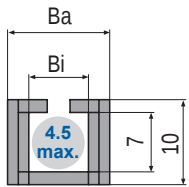
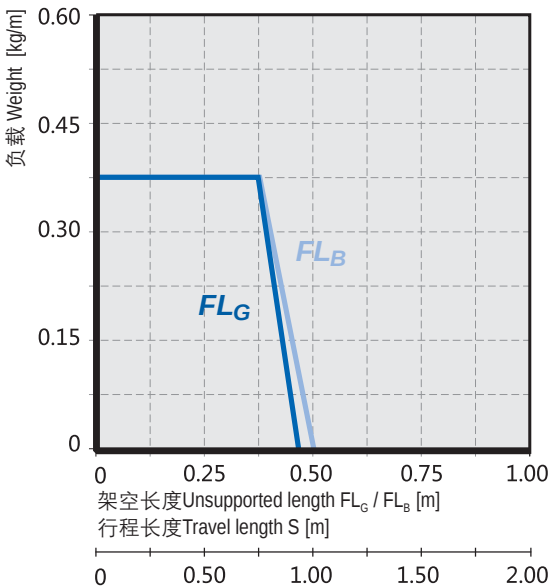


标准尺寸 Standard dimensions

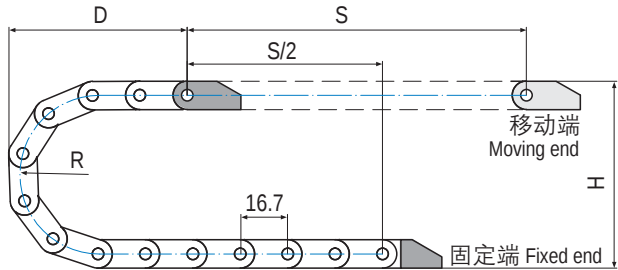
产品编码 Part No.	内宽 Bi	外宽 Ba	内高 Hi	外高 Ha	弯曲半径 R					重量
	Inner width [mm]	Outer width [mm]	Inner height [mm]	Outer height [mm]	Bend radius [mm]					Weight [kg/m]
C11.07.07	7	12	7	10	015	018	028	038	048	0.07
C11.07.10	10	15	7	10	015	018	028	038	048	0.08
C11.07.16	16	21	7	10	015	018	028	038	048	0.09
C11.07.20	20	25	7	10	015	018	028	038	048	0.10
C11.07.30	30	35	7	10	015	018	028	038	048	0.11

*根据要求提供 Available upon request

安装尺寸 Installation dimensions



内高 Inner height Bi: 7mm
节距 Link pitch T: 16.7mm
链节数 Link quantity: 60pcs/m
安装高度 Clearance height H_c: H+10mm
拖链长度 Chain length: S/2+K

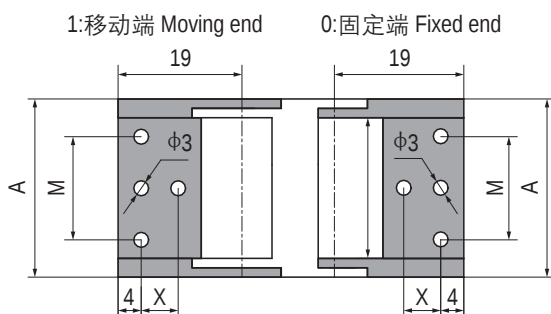


*如果安装空间受到限制请咨询CSB®. Please consult CSB® if space is particularly restricted.

R	015	018	028	038	048
H	40	46	66	86	106
D	45	48	58	68	78
K	85	90	125	155	185

实际安装高度 The required clearance height: H_c=H+10mm (负载 Fill weight 0.1kg/m)

拖链接头尺寸 Mounting bracket dimensions



产品编码 Part No.:

C11.07.07.0

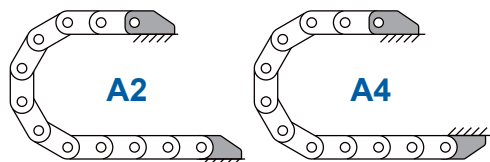


0: 固定端 Fixed end
1: 移动端 Moving end
拖链内宽 Inner width
拖链内高 Inner height
拖链系列 Chain series

产品编码 Part No.	拖链内宽 Inner width Bi [mm]	A [mm]	X [mm]	M [mm]
C11.07.07.0/1	07	12	8	/
C11.07.10.0/1	10	15	8	/
C11.07.16.0/1	16	21	8	/
C11.07.20.0/1	20	25	8	/
C11.07.30.0/1	30	35	/	22

*根据要求提供 Available upon request

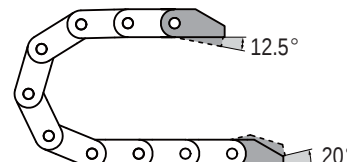
接头安装方式 Mounting bracket installation optional



*C11.07拖链接头安装方式示意图 Possible installation configurations

*A2/A4订购预装配拖链请注明安装方式 Please indicate installation code for pre-assembled chains

特殊配置 Special optional



*特殊配置请咨询CSB®
Please contact CSB® for special optional

① 技术参数 Installation dimensions

	架空长度 Unsupported length	≤ 0.5m	速度/ 加速度 Speed / acceleration FL _G	≤ 3 [m/s] / 8 [m/s²]
	滑行距离 Sliding length	不适用 Inapplicable	速度/ 加速度 Speed / acceleration FL _B	≤ 2 [m/s] / 4 [m/s²]
	竖直悬挂 Vertical hanging	≤ 5m	滑行速度/ 加速度 Sliding speed / acceleration	不适用 Inapplicable
	垂直站立 Vertical standing	≤ 0.5m	允许温度 Permitted temperature	-40℃ ~120℃
	侧向架空 Side-unsupported length	≤ 0.5m	阻燃等级 Flammability Class	UL94 V2

🛒 预装拖链订购编码 Order code for pre-assembled cable chains

拖链本体 Body					选配 Optional
C11 . 07 . 07 . 015 . 020 .					A2
拖链系列 Chain series	内高 Inner height	内宽 Inner width	弯曲半径 Bend radius	链节数量 Link quantity	接头安装形式 Mounting bracket installation code

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

C11.10 易填充微型电缆拖链 Micro cable chains, open design and cable filled quickly

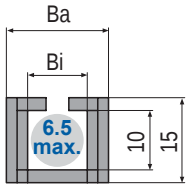
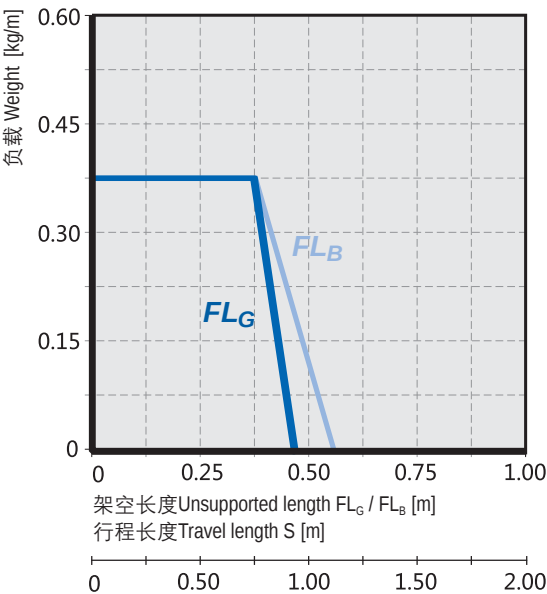


标准尺寸 Standard dimensions

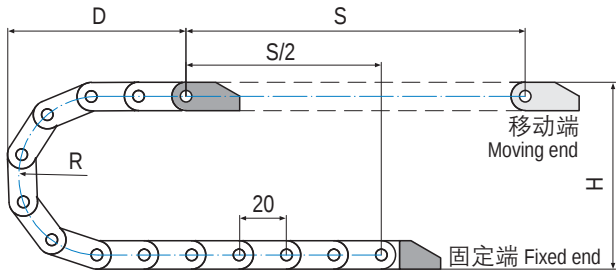
产品编码 Part No.	内宽 Bi Inner width [mm]	外宽 Ba Outer width [mm]	内高 Hi Inner height [mm]	外高 Ha Outer height [mm]	弯曲半径 R Bend radius [mm]			重量 Weight [kg/m]
C11.10.10	10	16.5	10	15	018	028	038	0.07
C11.10.16	16	22.5	10	15	018	028	038	0.08
C11.10.20	20	26.5	10	15	018	028	038	0.09

*根据要求提供 Available upon request

安装尺寸 Installation dimensions



内高 Inner height Bi: 10mm
节距 Link pitch T: 20mm
链节数 Link quantity: 50pcs/m
安装高度 Clearance height H_F : $H+10$ mm
拖链长度 Chain length: $S/2+K$

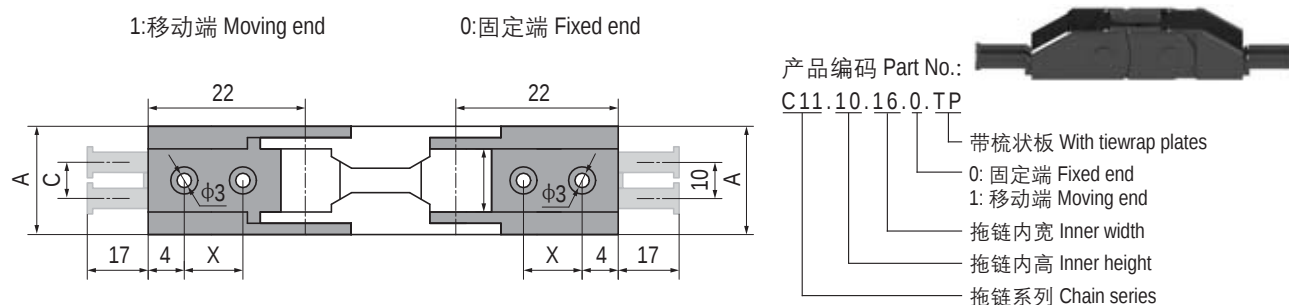


*如果安装空间受到限制请咨询CSB®. Please consult CSB® if space is particularly restricted.

R	018	028	038
H	51	71	91
D	56	66	76
K	100	130	160

实际安装高度 The required clearance height: $H_F=H+10$ mm (负载 Fill weight 0.2kg/m)

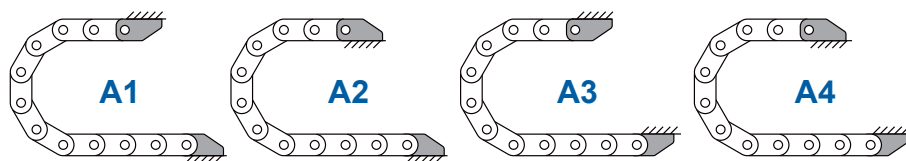
拖链接头尺寸 Mounting bracket dimensions



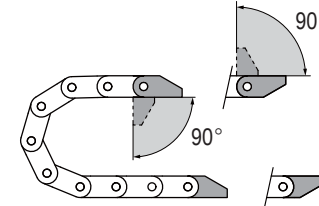
不带梳状板接头编码 Without tie-wrap plates	带梳状板接头编码 With tie-wrap plates	拖链内宽 Inner width Bi [mm]	A [mm]	X [mm]	C [mm]	齿数 Number of teeth [pcs]
C11.10.10.0/1	/	10	16.5	8	/	/
C11.10.16.0/1	C11.10.16.0/1.TP	16	22.5	8	10	2
C11.10.20.0/1	C11.10.20.0/1.TP	20	26.5	8	10	2

*根据要求提供 Available upon request

接头安装方式 Mounting bracket installation optional



特殊配置 Special optional



*C11.10拖链接头安装方式示意图 Possible installation configurations

*A1|A2|A3|A4订购预装配拖链请注明安装方式 Please indicate installation code for pre-assembled chains

*特殊配置请咨询CSB®
Please contact CSB® for special optional

① 技术参数 Installation dimensions

	架空长度 Unsupported length	≤ 0.5m	速度/ 加速度 Speed / acceleration FL _G	≤ 3 [m/s] / 8 [m/s²]
	滑行距离 Sliding length	不适用 Inapplicable	速度/ 加速度 Speed / acceleration FL _S	≤ 2 [m/s] / 4 [m/s²]
	竖直悬挂 Vertical hanging	≤ 5m	滑行速度/ 加速度 Sliding speed / acceleration	不适用 Inapplicable
	垂直站立 Vertical standing	≤ 0.5m	允许温度 Permitted temperature	-40℃ ~120℃
	侧向架空 Side-unsupported length	≤ 0.5m	阻燃等级 Flammability Class	UL94 V2

🛒 预装拖链订购编码 Order code for pre-assembled cable chains

拖链本体 Body					选配 Optional	
C11.10.10.018.020					A1.TP	
拖链系列 Chain series	内高 Inner height	内宽 Inner width	弯曲半径 Bend radius	链节数量 Link quantity	接头安装形式 Mounting bracket installation code	带梳状板 With tie-wrap plates

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

C21 微型可打开电缆拖链

Micro cable chains, openable along the outer radius

C21微型可打开电缆拖链体积较小，基于两片式设计重量轻特别适用于高速运动。C21微型可打开电缆拖链适用于较小安装空间，多种内宽规格可选。

C21 micro cable chains are openable along the outer radius, two pieces and small design chains with low weight, making them ideal for highly dynamic applications and cables filled quickly. C21 micro cable chains are optimal for the smallest installation spaces, and are available in many versions.



可沿外侧打开
Openable along the outer radius



阻燃等级 Flammability Class
UL94 HB



符合CE 标准 certification



RoHS认证 certification



低噪音 Low-noise



根据需求提供ESD抗静电荷/防爆版拖链C21E
Electrically conductive ESD/ATEX version C21E upon request

内高15-20mm，内宽16-40mm
Inner height from 15mm to 20mm,
Inner width from 16mm to 40mm

两片式设计，可沿外侧打开
Two-pieces design,
Openable along the outer radius

小节距设计实现低噪音
顺畅运行
Small pitch for low-noise
Smooth running

可选带梳妆板接头
With tiwrap plates
are available

极小转弯半径
Smallest bend
radius



C21

CSB-PCC®

www.csb-ep.com
sales@csb-ep.com

Tel: 0086 573 84186133/84185527
Fax: 0086 573 84185517

标准尺寸 Standard dimensions

微型可打开电缆拖链 Micro cable chains, openable along the outer radius	产品编码 Part No.	内宽 Bi	外宽 Ba	内高 Hi	外高 Ha	弯曲半径 R	架空长度	页码
		Inner width [mm]	Outer width [mm]	Inner height [mm]	Outer height [mm]	Bend radius [mm]	Unsupported length [m]	Page
	C21.15	16-40	24.2-48.2	14.3	19.3	28-48	≤0.7	P40
	C21.20	25-50	36-61	20	25	28-48	≤0.7	P42

安装说明 Installation



推入并卡合
Push and click



放入位置
Position and...



按压并卡合
Press and click



分开链节
Release links

典型适用行业和应用 Typical Applicable Industries and Applications

- 通用机械
- 搬运机器
- 半导体机器
- 测量设备
- 拾放机器人
- 医疗行业
- 包装机
- 纺织机械
- General machinery
- Handling machines
- Semi-conductor machines
- Measuring equipment
- Pick & place robots
- Medical industries
- Packaging machines
- Textile machines

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

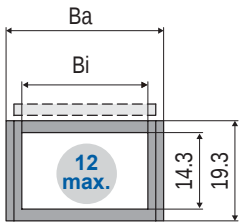
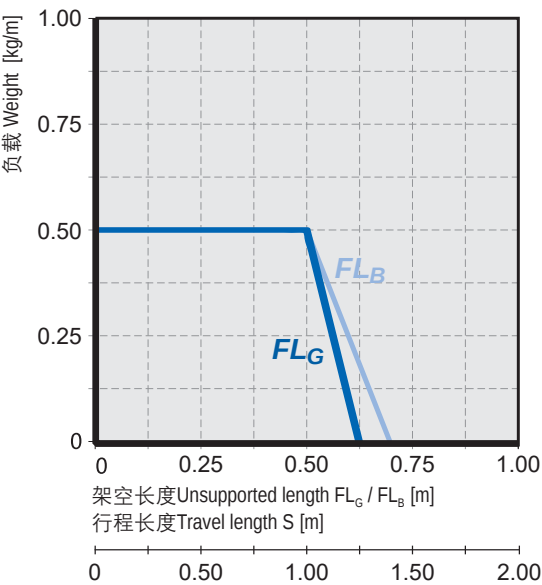
C21.15 微型可打开电缆拖链 Micro cable chains, openable along the outer radius



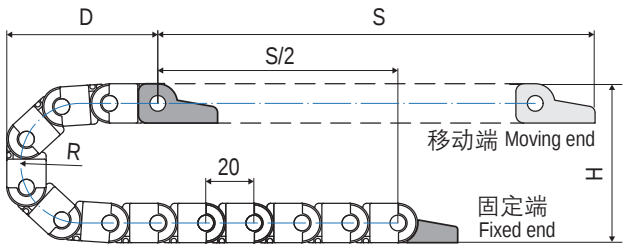
标准尺寸 Standard dimensions

产品编码 Part No.	内宽 Bi	外宽 Ba	内高 Hi	外高 Ha	弯曲半径 R			重量
	Inner width [mm]	Outer width [mm]	Inner height [mm]	Outer height [mm]	Bend radius [mm]			Weight [kg/m]
C21.15.16	16	24.2	14.3	19.3	028	038	048	0.24
C21.15.20	20	28.2	14.3	19.3	028	038	048	0.25
C21.15.30	30	38.2	14.3	19.3	028	038	048	0.28
C21.15.40	40	48.2	14.3	19.3	028	038	048	0.31

安装尺寸 Installation dimensions



内高 Inner height Bi: 14.3mm
节距 Link pitch T: 20mm
链节数 Link quantity: 50pcs/m
安装高度 Clearance height H_F : $H+10$ mm
拖链长度 Chain length: $S/2+K$

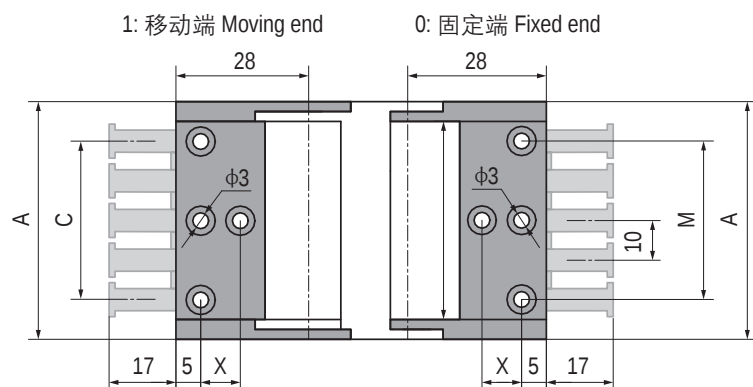


*如果安装空间受到限制请咨询CSB®. Please consult CSB® if space is particularly restricted.

R	028	038	048
H	75	95	115
D	68	78	88
K	130	160	195

实际安装高度 The required clearance height: $H_F=H+15$ mm (负载 Fill weight 0.3kg/m)

拖链接头尺寸 Mounting bracket dimensions



产品编码 Part No.:

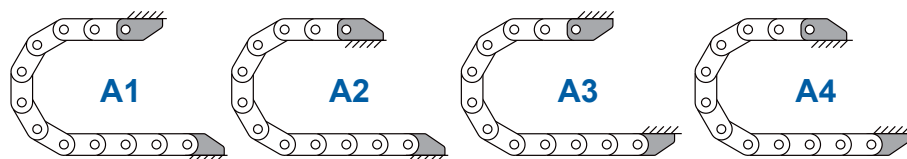
C21.15.16.0.TP



带梳状板 With tiwrap plates
0: 固定端 Fixed end
1: 移动端 Moving end
拖链内宽 Inner width
拖链内高 Inner height
拖链系列 Chain series

不带梳状板接头编码 Without tiwrap plates	带梳状板接头编码 With tiwrap plates	拖链内宽 Inner width Bi [mm]	A [mm]	X [mm]	M [mm]	C [mm]	齿数 Number of teeth [pcs]
C21.15.16.0/1	C21.15.16.0/1.TP	16	24.2	8	/	10	2
C21.15.20.0/1	C21.15.20.0/1.TP	20	28.2	8	/	10	2
C21.15.30.0/1	C21.15.30.0/1.TP	30	38.2	8	22	20	3
C21.15.40.0/1	C21.15.40.0/1.TP	40	48.2	8	32	30	4

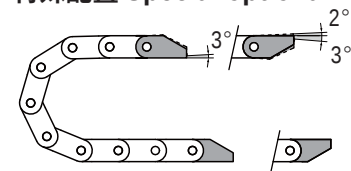
接头安装方式 Mounting bracket installation optional



*C21.15拖链接头安装方式示意图 Possible installation configurations

*A1/A2/A3/A4订购预装配拖链请注明安装方式 Please indicate installation code for pre-assembled chains

特殊配置 Special optional



*特殊配置请咨询CSB®

Please contact CSB® for special optional

① 技术参数 Installation dimensions

	架空长度 Unsupported length	≤ 0.7m	速度/ 加速度 Speed / acceleration FL _g	≤ 3 [m/s] / 8 [m/s²]
	滑行距离 Sliding length	不适用 Inapplicable	速度/ 加速度 Speed / acceleration FL _g	≤ 2 [m/s] / 4 [m/s²]
	竖直悬挂 Vertical hanging	≤ 5m	滑行速度/ 加速度 Sliding speed / acceleration	不适用 Inapplicable
	垂直站立 Vertical standing	≤ 0.5m	允许温度 Permitted temperature	-40℃ ~120℃
	侧向架空 Side-unsupported length	≤ 0.5m	阻燃等级 Flammability Class	UL94 HB

🛒 预装拖链订购编码 Order code for pre-assembled cable chains

拖链本体 Body					选配 Optional	
C21 . 15 . 16 . 028 . 020					A1 . TP	
拖链系列 Chain series	内高 Inner height	内宽 Inner width	弯曲半径 Bend radius	链节数量 Link quantity	接头安装形式 Mounting bracket installation code	带梳状板 With tiwrap plates

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

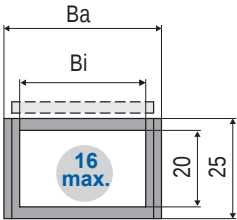
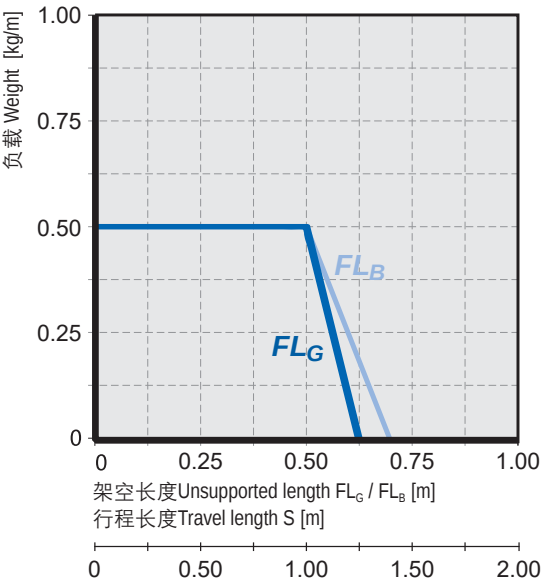
C21.20 微型可打开电缆拖链 Micro cable chains, openable along the outer radius



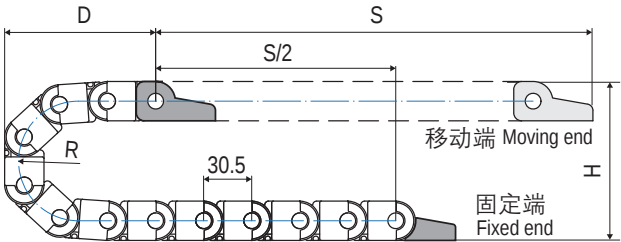
标准尺寸 Standard dimensions

产品编码 Part No.	内宽 Bi Inner width [mm]	外宽 Ba Outer width [mm]	内高 Hi Inner height [mm]	外高 Ha Outer height [mm]	弯曲半径 R Bend radius [mm]			重量 Weight [kg/m]
C21.20.25	25	36	20	25	028	038	048	0.32
C21.20.38	38	49	20	25	028	038	048	0.40
C21.20.50	50	61	20	25	028	038	048	0.41

安装尺寸 Installation dimensions



内高 Inner height Bi: 20mm
节距 Link pitch T: 30.5mm
链节数 Link quantity: 33pcs/m
安装高度 Clearance height H_F : $H+10$ mm
拖链长度 Chain length: $S/2+K$

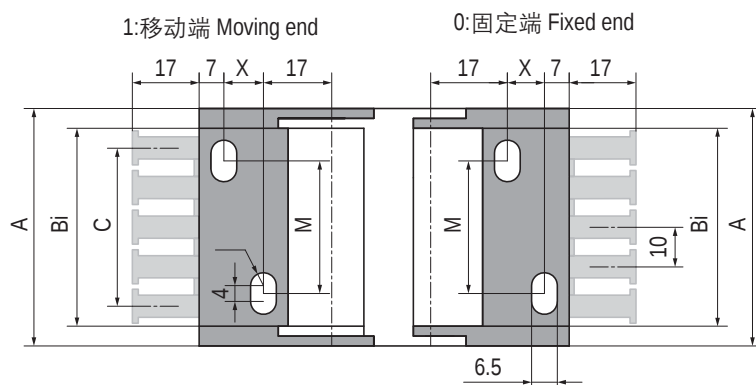


*如果安装空间受到限制请咨询CSB®. Please consult CSB® if space is particularly restricted.

R	028	038	048
H	81	101	121
D	86	96	106
K	150	185	215

实际安装高度 The required clearance height: $H_F=H+15$ mm (负载 Fill weight 0.3kg/m)

拖链接头尺寸 Mounting bracket dimensions



产品编码 Part No.:

C21.20.25.0.TP



带梳状板 With tiwrap plates

0: 固定端 Fixed end

1: 移动端 Moving end

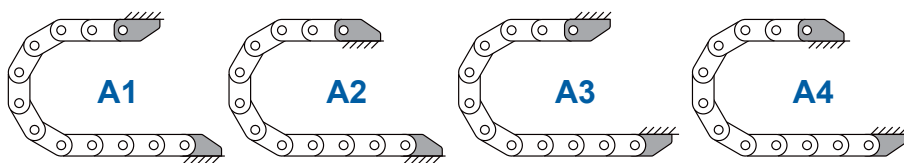
拖链内宽 Inner width

拖链内高 Inner height

拖链系列 Chain series

不带梳状板接头编码 Without tiwrap plates	带梳状板接头编码 With tiwrap plates	拖链内宽 Inner width Bi [mm]	A [mm]	X [mm]	M [mm]	C [mm]	齿数 Number of teeth [pcs]
C21.20.25.0/1	C21.20.25.0/1.TP	25	36.3	14	10	20	3
C21.20.38.0/1	C21.20.38.0/1.TP	38	49.3	14	23	30	4
C21.20.50.0/1	C21.20.50.0/1.TP	50	61.3	14	35	40	5

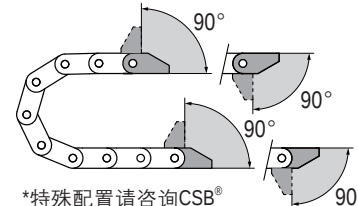
接头安装方式 Mounting bracket installation optional



*C21.20拖链接头安装方式示意图 Possible installation configurations

*A1|A2|A3|A4订购预装配拖链请注明安装方式 Please indicate installation code for pre-assembled chains

特殊配置 Special optional



*特殊配置请咨询CSB®

Please contact CSB® for special optional

① 技术参数 Installation dimensions

	架空长度 Unsupported length	≤ 0.7m	速度/ 加速度 Speed / acceleration FL _G	≤ 3 [m/s] / 8 [m/s²]
	滑行距离 Sliding length	不适用 Inapplicable	速度/ 加速度 Speed / acceleration FL _B	≤ 2 [m/s] / 4 [m/s²]
	竖直悬挂 Vertical hanging	≤ 5m	滑行速度/ 加速度 Sliding speed / acceleration	不适用 Inapplicable
	垂直站立 Vertical standing	≤ 0.5m	允许温度 Permitted temperature	-40℃ ~120℃
	侧向架空 Side-unsupported length	≤ 0.5m	阻燃等级 Flammability Class	UL94 HB

🛒 预装拖链订购编码 Order code for pre-assembled cable chains

拖链本体 Body					选配 Optional	
C21 . 20 . 25 . 028 . 020					A1 . TP	
拖链系列 Chain series	内高 Inner height	内宽 Inner width	弯曲半径 Bend radius	链节数量 Link quantity	接头安装形式 Mounting bracket installation code	带梳状板 With tiwrap plates

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

C02 通用型电缆拖链 Universal cable chains

C02通用型电缆拖链是应用范围广泛的产品，简单而多功能的组装结合坚固性，高强度配合更安静的运动，更长的电缆寿命和许多安装选项。

C02 universal cable chains for a wide range of applications, easy and versatile assembly combined with ruggedness - high strength paired with quieter motion - long cable life and many mounting options.



多种打开方式
Multiple opening methods



阻燃等级 Flammability Class
UL94 HB



符合CE 标准 certification



RoHS认证 certification



根据需求提供ESD抗静电荷/防爆版拖链C02E
Electrically conductive ESD/ATEX version C02E upon request

大销孔固定
Large bore for fixing with bolts

内高18-45mm，内宽38-250mm
Inner height from 18mm to 45mm,
Inner width from 38mm to 250mm

特殊设计实现多种打开方式
Special design for multiple
opening method

可选配去分隔片
With separators are available

高强度与稳定性连接设计
High strength and stability connection
design

可选配去应力元件
With strain reliefs
are available



C02

CSB-PCC®

www.csb-ep.com
sales@csb-ep.com

Tel: 0086 573 84186133/84185527
Fax: 0086 573 84185517

标准尺寸 Standard dimensions

通用型电缆拖链 Universal cable chains	产品编码 Part No.	内宽 Bi Inner width [mm]	外宽 Ba Outer width [mm]	内高 Hi Inner height [mm]	外高 Ha Outer height [mm]	弯曲半径 R Bend radius [mm]	架空长度 Unsupported length [m]	页码 Page
	C02.18	38-125	54-141	18	28	38-150	≤1.8	P46
	C02.25	38-125	54-141	25	35	55-250	≤2.4	P49
	C02.35	50-150	66-194	35	50	63-250	≤2.8	P52
	C02.45	75-175	95-270	45	64	75-300	≤3.7	P55

安装说明 Installation



对准位置
Position and...



推入与销卡合
Push, click and snap in pin



横杆插入铰链
Hinged crossbars



旋转横杆到另一侧
swiveling crossbar to another side



拇指即可快速闭合
Fast closing by a thumb

典型适用行业和应用 Typical Applicable Industries and Applications

- | | | | |
|-----------|-----------|--------------------------|------------------------------------|
| • 通用机械 | • 塑料处理机 | • General machinery | • Plastic handling machines |
| • 工程机械 | • 半导体机器 | • Construction machinery | • Semi-conductor machines |
| • 打印机和绘图仪 | • 玻璃机器 | • Printer and plotter | • Glass machines |
| • 搬运机器 | • 有限长行程应用 | • Handling machines | • Limited long travel applications |

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

C02.18 通用型电缆拖链 Universal cable chains

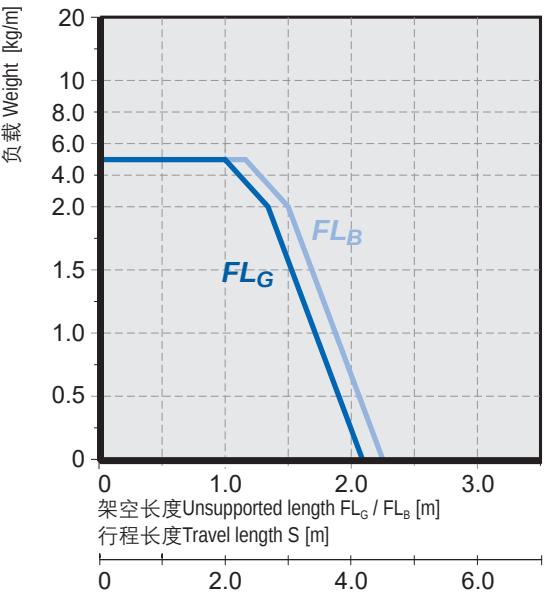


标准尺寸 Standard dimensions

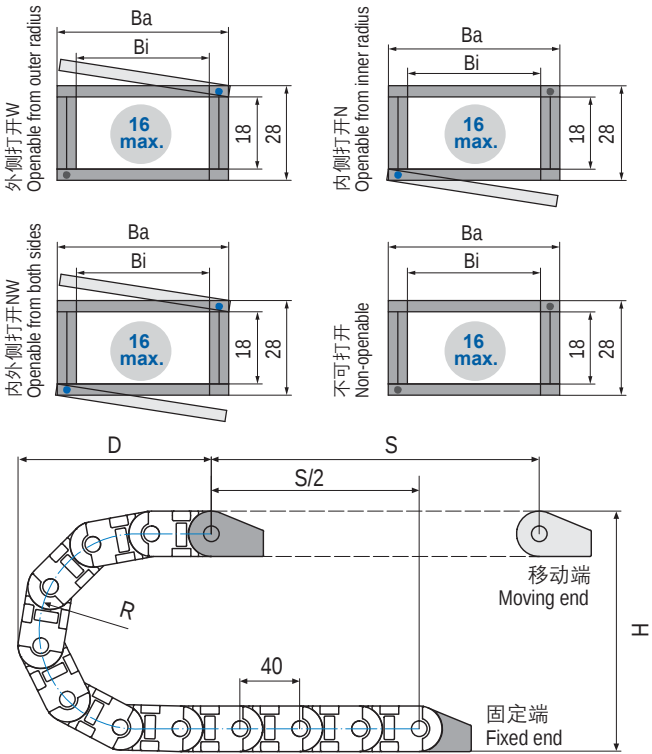
产品编码 Part No.	内宽 Bi	外宽 Ba	内高 Hi	外高 Ha	弯曲半径 R						重量
	Inner width [mm]	Outer width [mm]	Inner height [mm]	Outer height [mm]	Bend radius [mm]						Weight [kg/m]
C02.18.035	38	54	18	28	038	048	075	100	125	150	0.68
C02.18.045	48	64	18	28	038	048	075	100	125	150	0.73
C02.18.055	56	73	18	28	038	048	075	100	125	150	0.78
C02.18.065	67	83	18	28	038	048	075	100	125	150	0.83
C02.18.075	77	93	18	28	038	048	075	100	125	150	0.88
C02.18.085	87	103	18	28	038	048	075	100	125	150	0.93
C02.18.100	103	119	18	28	038	048	075	100	125	150	1.00
C02.18.125	125	141	18	28	038	048	075	100	125	150	1.13

*根据要求提供 Available upon request

安装尺寸 Installation dimensions



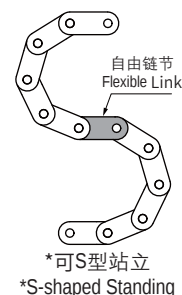
内高 Inner height Bi: 18mm
节距 Link pitch T: 40mm
链节数 Link quantity: 25pcs/m
安装高度 Clearance height H_F : $H+18$ mm
拖链长度 Chain length: $S/2+K$



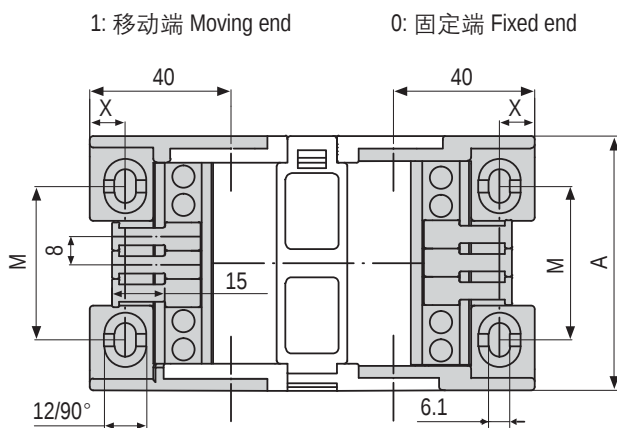
*如果安装空间受到限制请咨询CSB®. Please consult CSB® if space is particularly restricted.

R	038	048	075	100	125	150
H	104	124	175	228	278	328
D	88	101	130	153	179	204
K	200	230	315	395	473	551

实际安装高度 The required clearance height: $H_f = H + 25\text{mm}$ (负载 Fill weight 1.5kg/m)



拖链接头尺寸 Mounting bracket dimensions



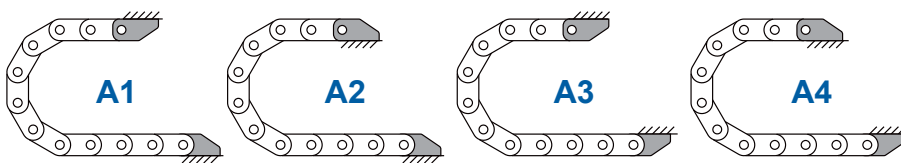
产品编码 Part No.:

C02.18.055.0

- 0: 固定端 Fixed end
- 1: 移动端 Moving end
- 拖链内宽 Inner width
- 拖链内高 Inner height
- 拖链系列 Chain series

产品编码 Part No.	拖链内宽 Inner width Bi [mm]	A [mm]	X [mm]	M [mm]	安装应力单元最大数量 Max. quantity of tiewrap elements [pcs]
C02.18.035.0/1	38	54	9	24.5	4
C02.18.045.0/1	48	64	9	34.5	5
C02.18.055.0/1	57	73	9	43.5	7
C02.18.065.0/1	67	81	9	51.5	8
C02.18.075.0/1	77	93	9	63.5	9
C02.18.085.0/1	87	101	9	71.5	10
C02.18.100.0/1	103	119	9	89.5	12
C02.18.125.0/1	125	141	9	111.5	15

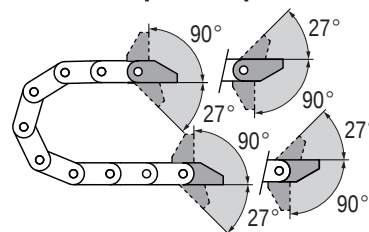
接头安装方式 Mounting bracket installation optional



*C02.18拖链接头安装方式示意图 Possible installation configurations

*A1|A2|A3|A4订购预装配拖链请注明安装方式 Please indicate installation code for pre-assembled chains

特殊配置 Special optional

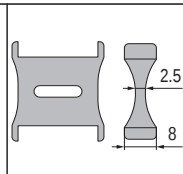


*特殊配置请咨询CSB®

Please contact CSB® for special optional

CSB-PCC® Plastic Cable Chains

附件 Accessories



C02竖分隔片
Vertical separators

产品编码Part No.: SV.C02.18

*详情Product information: P76



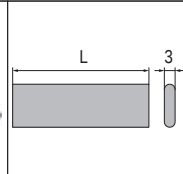
C02 C型支架 C-profile brackets

*详情Product information: P82



C02消除应力元件 Tiewrap elements

*详情Product information: P84



横分隔片
Horizontal separators

产品编码Part No.: SH.03.12.000

*详情Product information: P80

技术参数 Installation dimensions

	架空长度 Unsupported length	≤ 1.8m	速度/ 加速度 Speed / acceleration FL _G	≤ 10 [m/s] / 50 [m/s²]
	滑行距离 Sliding length	不适用 Inapplicable	速度/ 加速度 Speed / acceleration FL _B	≤ 3 [m/s] / 5 [m/s²]
	竖直悬挂 Vertical hanging	≤ 25m	滑行速度/ 加速度 Sliding speed / acceleration	不适用 Inapplicable
	垂直站立 Vertical standing	≤ 2.0m	允许温度 Permitted temperature	-40℃ ~120℃
	侧向架空 Side-unsupported length	≤ 1.0m	阻燃等级 Flammability Class	UL94 HB

预装拖链订购编码 Order code for pre-assembled cable chains

拖链本体 Body					选配 Optional			附件 Accessories		
C02 . 18 . 035 . 048 . 020					N/W . NC . A1			SV0203 . SH01 . TE03		
拖链系列 Chain series	内高 Inner height	内宽 Inner width	弯曲半径 Bend radius	链节数量 Link quantity	打开方向 Open direction	无预紧上拱 Without camber	接头安装形式 Mounting bracket installation code	竖分隔片 Vertical separators	横分隔片 Horizontal separators	去应力件 Strain relief elements
						1		2	3	4

- 1 根据需求提供无预应力上拱度NC版本拖链 Upon request for NC version without camper
- 2 SV0203: 每间隔2pcs空链节安装3pcs竖分隔片 Install 3pcs vertical separators every 2pcs blank links
- 3 SH01: 横分隔片1pc 默认安装中间孔位 Horizontal separator 1pc installed in the middle hole
- 4 TE03: 拖链接头带3pcs去应力元件 Mounting brackets with 3pcs stress relief elements

C02.25 通用型电缆拖链 Universal cable chains

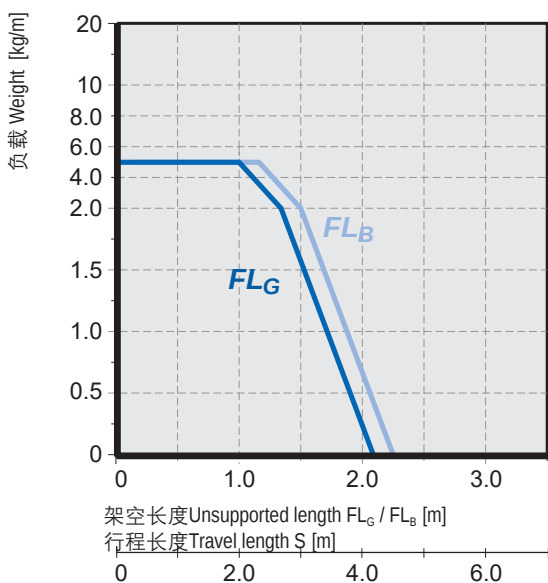


标准尺寸 Standard dimensions

产品编码 Part No.	内宽 Bi	外宽 Ba	内高 Hi	外高 Ha	弯曲半径 R									重量
	Inner width [mm]	Outer width [mm]	Inner height [mm]	Outer height [mm]	Bend radius [mm]									Weight [kg/m]
C02.25.035	38	54	25	35	055	075	100	125	150	175	200	225	250	0.81
C02.25.045	48	64	25	35	055	075	100	125	150	175	200	225	250	0.86
C02.25.055	56	72	25	35	055	075	100	125	150	175	200	225	250	0.91
C02.25.065	67	83	25	35	055	075	100	125	150	175	200	225	250	0.96
C02.25.075	77	93	25	35	055	075	100	125	150	175	200	225	250	1.01
C02.25.085	87	103	25	35	055	075	100	125	150	175	200	225	250	1.06
C02.25.100	103	119	25	35	055	075	100	125	150	175	200	225	250	1.13
C02.25.125	125	141	25	35	055	075	100	125	150	175	200	225	250	1.22

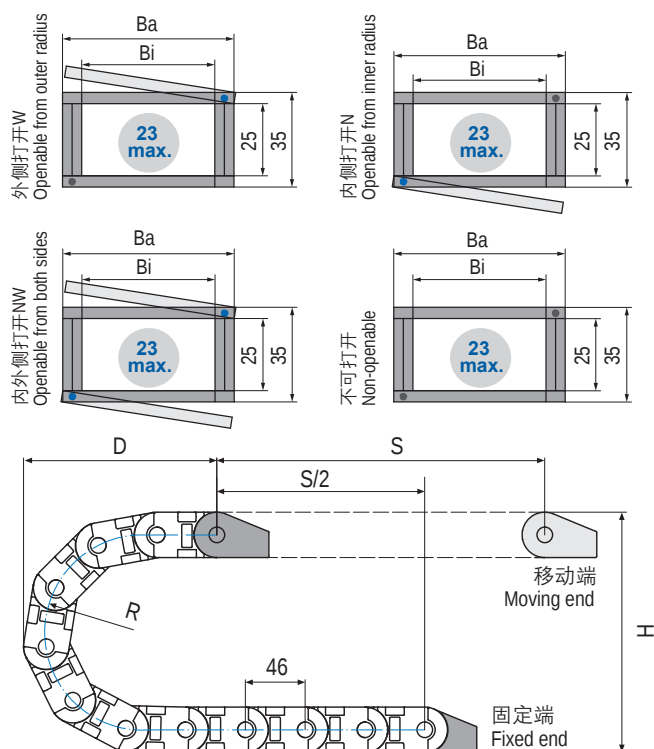
*根据要求提供 Available upon request

安装尺寸 Installation dimensions



内高 Inner height Bi : 25mm
 节距 Link pitch T : 46mm
 链节数 Link quantity: 22pcs/m
 安装高度 Clearance height H_F : $H+25$ mm
 拖链长度 Chain length: $S/2+K$

*如果安装空间受到限制请咨询CSB®. Please consult CSB® if space is particularly restricted.

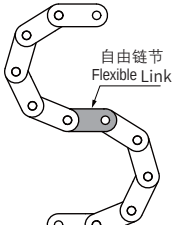


CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

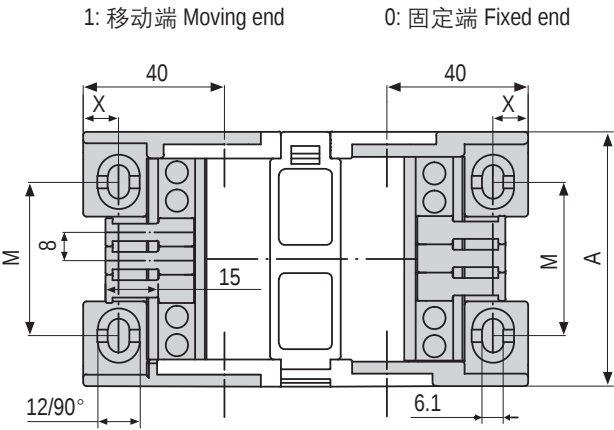
R	055	075	100	125	150	175	200	225	250
H	145	185	235	285	335	385	435	485	535
D	142	162	187	212	237	262	287	312	337
K	265	330	410	485	565	645	725	800	880

实际安装高度 The required clearance height: $H_f = H + 25\text{mm}$ (负载 Fill weight 1.5kg/m)



*可S型站立
*S-shaped Standing

拖链接头尺寸 Mounting bracket dimensions



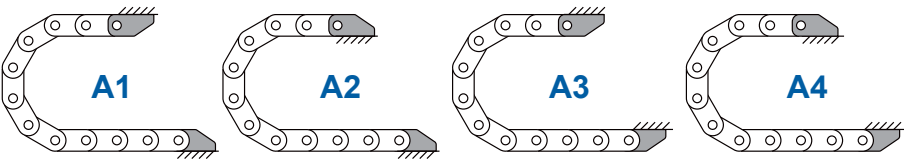
产品编码 Part No.:

C02.25.055.0

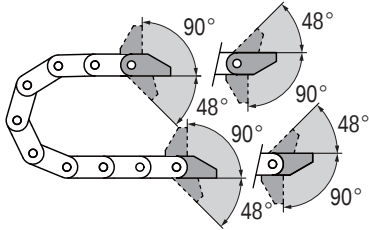
- 0: 固定端 Fixed end
- 1: 移动端 Moving end
- 拖链内宽 Inner width
- 拖链内高 Inner height
- 拖链系列 Chain series

产品编码 Part No.	拖链内宽 Inner width Bi [mm]	A [mm]	X [mm]	M [mm]	安装应力单元最大数量 Max. quantity of tiewrap elements [pcs]
C02.25.035.0/1	38	55	10	25	4
C02.25.045.0/1	48	65	10	35	5
C02.25.055.0/1	57	74	10	44	7
C02.25.065.0/1	67	82	10	52	8
C02.25.075.0/1	77	94	10	64	9
C02.25.085.0/1	87	102	10	72	10
C02.25.100.0/1	103	120	10	90	12
C02.25.125.0/1	125	142	10	112	15

接头安装方式 Mounting bracket installation optional



特殊配置 Special optional



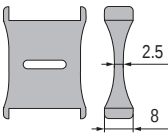
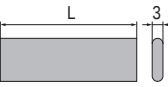
*C02.25拖链接头安装方式示意图 Possible installation configurations

*A1|A2|A3|A4订购预装配拖链请注明安装方式 Please indicate installation code for pre-assembled chains

*特殊配置请咨询CSB®

Please contact CSB® for special optional

附件 Accessories

		C02竖分隔片 Vertical separators 产品编码Part No.: SV.C02.25 *详情Product information: P76	 C02 C型支架 C-profile brackets *详情Product information: P82	 C02消除应力元件 Tiewrap elements *详情Product information: P84
		横分隔片 Horizontal separators 产品编码Part No.: SH.03.12.000 *详情Product information: P80		

技术参数 Installation dimensions

	架空长度 Unsupported length ≤ 2.4m	速度/ 加速度 Speed / acceleration FL_g ≤ 10 [m/s] / 50 [m/s²]
	滑行距离 Sliding length 不适用 Inapplicable	速度/ 加速度 Speed / acceleration FL_g ≤ 3 [m/s] / 5 [m/s²]
	竖直悬挂 Vertical hanging ≤ 30m	滑行速度/ 加速度 Sliding speed / acceleration 不适用 Inapplicable
	垂直站立 Vertical standing ≤ 2.5m	允许温度 Permitted temperature -40℃ ~120℃
	侧向架空 Side-unsupported length ≤ 1.0m	阻燃等级 Flammability Class UL94 HB

预装拖链订购编码 Order code for pre-assembled cable chains

拖链本体 Body					选配 Optional			附件 Accessories		
C02 . 25 . 035 . 075 . 020					N/W . NC . A1			SV0203 . SH01 . TE03		
拖链系列 Chain series	内高 Inner height	内宽 Inner width	弯曲半径 Bend radius	链节数量 Link quantity	打开方向 Open direction	无预紧上拱 Without camber	接头安装形式 Mounting bracket installation code	竖分隔片 Vertical separators	横分隔片 Horizontal separators	去应力件 Strain relief elements

- ① 根据需求提供无预应力上拱度NC版本拖链 Upon request for NC version without camber
- ② SV0203: 每间隔2pcs空链节安装3pcs竖分隔片 Install 3pcs vertical separators every 2pcs blank links
- ③ SH01: 横分隔片1pc 默认安装中间孔位 Horizontal separator 1pc installed in the middle hole
- ④ TE03: 拖链接头带3pcs去应力元件 Mounting brackets with 3pcs stress relief elements

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

C02.35 通用型电缆拖链 Universal cable chains

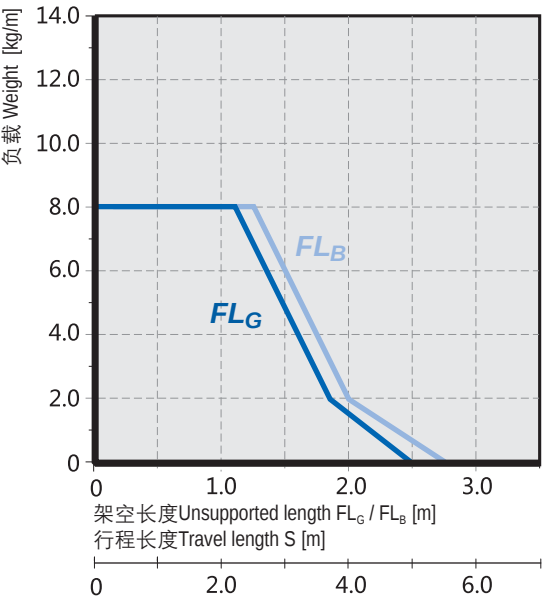


标准尺寸 Standard dimensions

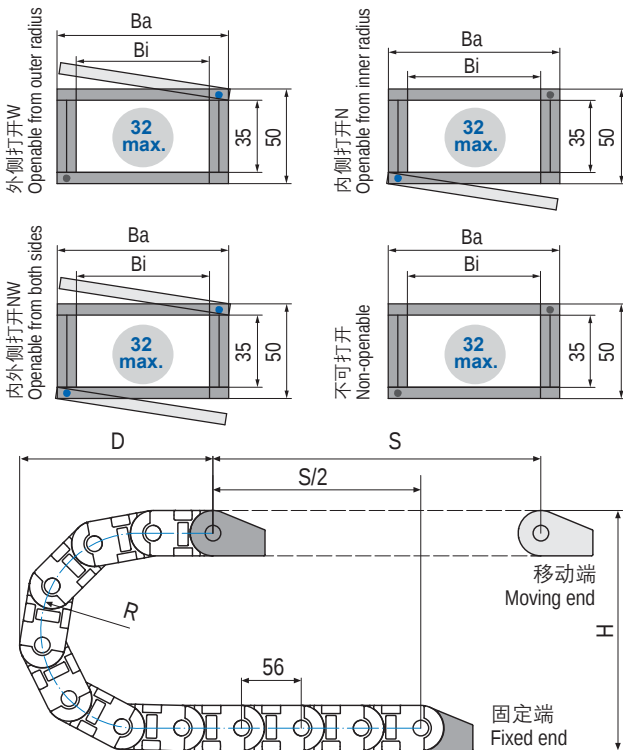
产品编码 Part No.	内宽 Bi	外宽 Ba	内高 Hi	外高 Ha	弯曲半径 R								重量
	Inner width [mm]	Outer width [mm]	Inner height [mm]	Outer height [mm]	Bend radius [mm]								Weight [kg/m]
C02.35.050	50	66	35	50	063	075	100	125	150	175	200	250	1.17
C02.35.060	60	76	35	50	063	075	100	125	150	175	200	250	1.25
C02.35.075	75	91	35	50	063	075	100	125	150	175	200	250	1.3
C02.35.100	100	116	35	50	063	075	100	125	150	175	200	250	1.39
C02.35.125	125	141	35	50	063	075	100	125	150	175	200	250	1.48
C02.35.150	150	166	35	50	063	075	100	125	150	175	200	250	1.62

*根据要求提供 Available upon request

安装尺寸 Installation dimensions



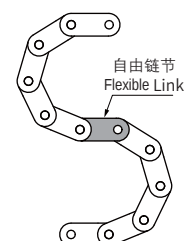
内高 Inner height Bi: 35mm
节距 Link pitch T: 56mm
链节数 Link quantity: 18pcs/m
安装高度 Clearance height H_F : $H+35$ mm
拖链长度 Chain length: $S/2+K$



*如果安装空间受到限制请咨询CSB®. Please consult CSB® if space is particularly restricted.

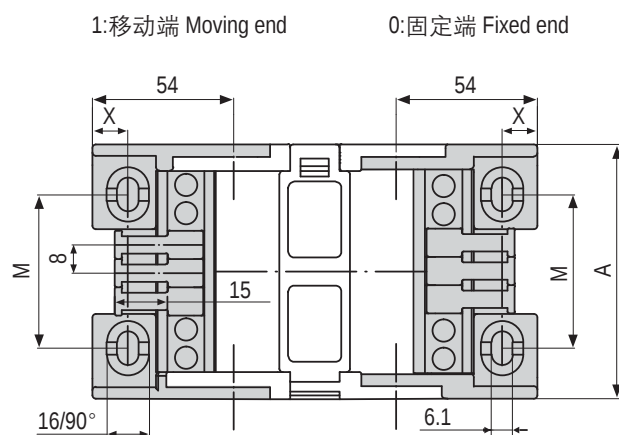
R	063	075	100	125	150	175	200	250
H	176	200	250	300	350	400	450	550
D	172	184	209	234	259	284	309	359
K	310	350	430	505	585	665	745	900

实际安装高度 The required clearance height: $H_f = H + 25\text{mm}$ (负载 Fill weight 1.5kg/m)



*可S型站立
*S-shaped Standing

拖链接头尺寸 Mounting bracket dimensions



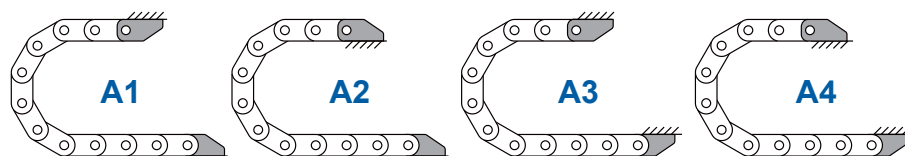
产品编码 Part No.:

C02.35.050.0

0: 固定端 Fixed end
1: 移动端 Moving end
拖链内宽 Inner width
拖链内高 Inner height
拖链系列 Chain series

产品编码 Part No.	拖链内宽 Inner width Bi [mm]	A [mm]	X [mm]	M [mm]	安装应力单元最大数量 Max. quantity of tiewrap elements [pcs]
C02.35.050.0/1	50	68	17	30	6
C02.35.060.0/1	60	78	17	40	7
C02.35.075.0/1	75	93	17	55	9
C02.35.100.0/1	100	116	17	80	12
C02.35.125.0/1	125	143	17	105	15
C02.35.150.0/1	150	168	17	130	18

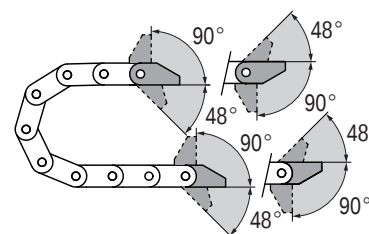
接头安装方式 Mounting bracket installation optional



*C02.35拖链接头安装方式示意图 Possible installation configurations

*A1|A2|A3|A4订购预装配拖链请注明安装方式 Please indicate installation code for pre-assembled chains

特殊配置 Special optional



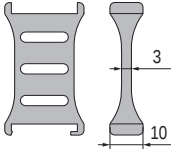
*特殊配置请咨询CSB®

Please contact CSB® for special optional

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链 C02.35

附件 Accessories

		C02竖分隔片 Vertical separators 产品编码Part No.: SV.C02.35 *详情Product information: P76		C02 C型支架 C-profile brackets *详情Product information: P82		C02消除应力元件 Tiewrap elements *详情Product information: P84
		横分隔片 Horizontal separators 产品编码Part No.: SH.03.12.000 *详情Product information: P80		扩展波纹管支架 Bellows expansion brackets *详情Product information: P86		

技术参数 Installation dimensions

	架空长度 Unsupported length	≤ 2.8m	速度/ 加速度 Speed / acceleration FL _g	≤ 10 [m/s] / 50 [m/s ²]
	滑行距离 Sliding length	不适用 Inapplicable	速度/ 加速度 Speed / acceleration FL _g	≤ 3 [m/s] / 6 [m/s ²]
	竖直悬挂 Vertical hanging	≤ 40m	滑行速度/ 加速度 Sliding speed / acceleration	不适用 Inapplicable
	垂直站立 Vertical standing	≤ 3.0m	允许温度 Permitted temperature	-40 °C ~120 °C
	侧向架空 Side-unsupported length	≤ 1.5m	阻燃等级 Flammability Class	UL94 HB

预装拖链订购编码 Order code for pre-assembled cable chains

拖链本体 Body					选配 Optional			附件 Accessories		
C02 . 35 . 075 . 075 . 020					N/W . NC . A1			SV0203 . SH01 . TE03		
拖链系列 Chain series	内高 Inner height	内宽 Inner width	弯曲半径 Bend radius	链节数量 Link quantity	打开方向 Open direction	无预紧上拱 Without camber	接头安装形式 Mounting bracket installation code	竖分隔片 Vertical separators	横分隔片 Horizontal separators	去应力件 Strain relief elements
						1		2	3	4

- ① 根据需求提供无预应力上拱度NC版本拖链 Upon request for NC version without camber
② SV0203: 每间隔2pcs空链节安装3pcs竖分隔片 Install 3pcs vertical separators every 2pcs blank links
③ SH01: 横分隔片1pc 默认安装中间孔位 Horizontal separator 1pc installed in the middle hole
④ TE03: 拖链接头带3pcs去应力元件 Mounting brackets with 3pcs stress relief elements

C02.45 通用型电缆拖链 Universal cable chains

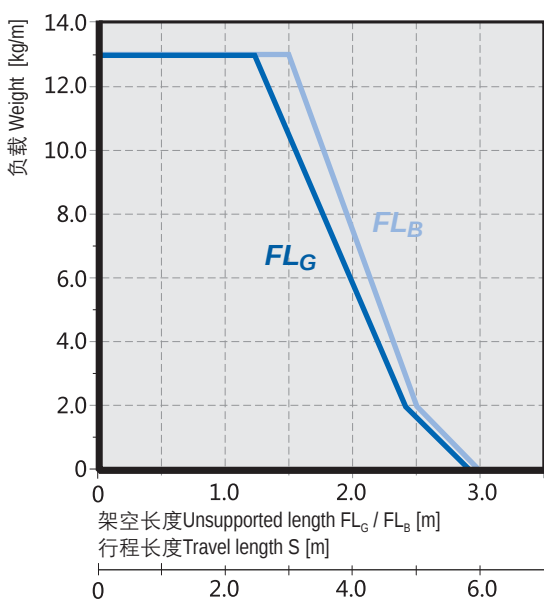


标准尺寸 Standard dimensions

产品编码 Part No.	内宽 Bi	外宽 Ba	内高 Hi	外高 Ha	弯曲半径 R							重量
	Inner width [mm]	Outer width [mm]	Inner height [mm]	Outer height [mm]	Bend radius [mm]							Weight [kg/m]
C02.45.075	75	95	45	64	075	100	125	150	200	250	300	1.79
C02.45.080	80	100	45	64	075	100	125	150	200	250	300	1.84
C02.45.100	100	120	45	64	075	100	125	150	200	250	300	1.93
C02.45.125	125	145	45	64	075	100	125	150	200	250	300	2.03
C02.45.150	150	170	45	64	075	100	125	150	200	250	300	2.17
C02.45.175	175	195	45	64	075	100	125	150	200	250	300	2.28

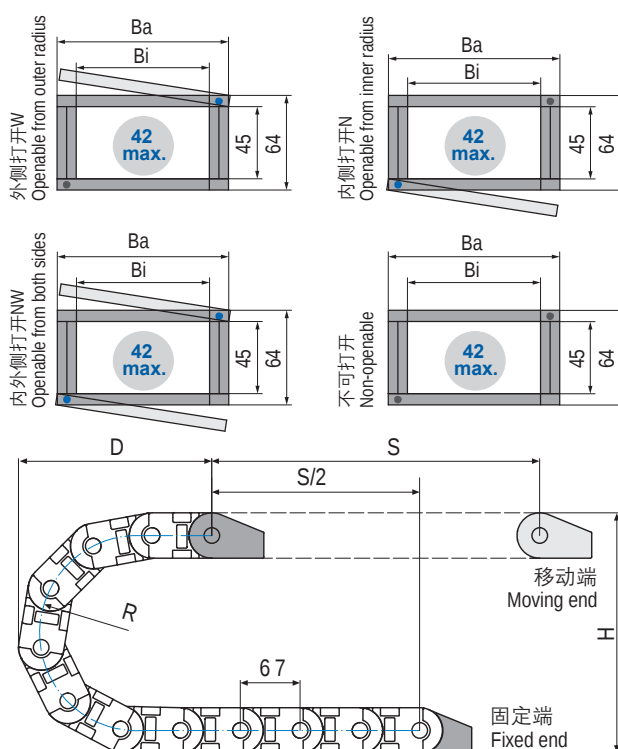
*根据要求提供 Available upon request

安装尺寸 Installation dimensions



内高 Inner height Bi: 45mm
 节距 Link pitch T: 67mm
 链节数 Link quantity: 15pcs/m
 安装高度 Clearance height H_F : $H+40$ mm
 拖链长度 Chain length: $S/2+K$

*如果安装空间受到限制请咨询CSB®. Please consult CSB® if space is particularly restricted.

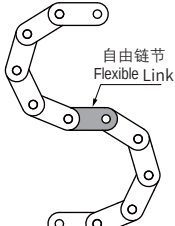


CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

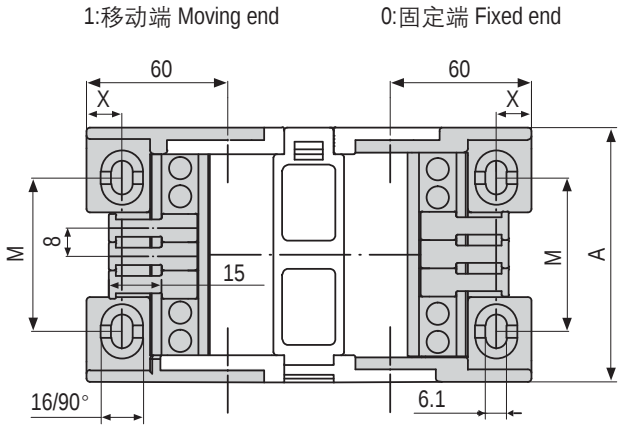
R	075	100	125	150	200	250	300
H	214	264	314	364	464	564	664
D	208	233	258	283	333	383	433
K	370	450	530	610	765	920	1080

实际安装高度 The required clearance height: $H_f = H + 25\text{mm}$ (负载 Fill weight 1.5kg/m)



*可S型站立
*S-shaped Standing

拖链接头尺寸 Mounting bracket dimensions



产品编码 Part No.:

C02.45.075.0

0: 固定端 Fixed end

1: 移动端 Moving end

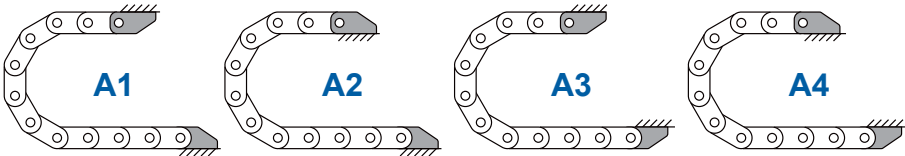
拖链内宽 Inner width

拖链内高 Inner height

拖链系列 Chain series

产品编码 Part No.	拖链内宽 Inner width Bi [mm]	A [mm]	X [mm]	M [mm]	安装应力单元最大数量 Max. quantity of tiewrap elements [pcs]
C02.45.075.0/1	75	95	20	53	9
C02.45.080.0/1	80	100	20	58	9
C02.45.100.0/1	100	120	20	78	12
C02.45.125.0/1	125	145	20	103	15
C02.45.150.0/1	150	170	20	128	18
C02.45.175.0/1	175	195	20	153	21

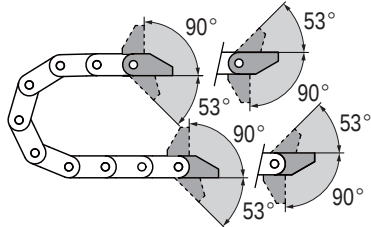
接头安装方式 Mounting bracket installation optional



*C02.45拖链接头安装方式示意图 Possible installation configurations

*A1|A2|A3|A4订购预装配拖链请注明安装方式 Please indicate installation code for pre-assembled chains

特殊配置 Special optional



*特殊配置请咨询CSB®

Please contact CSB® for special optional

附件 Accessories

		C02竖分隔片 Vertical separators 产品编码Part No.: SV.C02.45 *详情Product information: P76	C02 C型支架 C-profile brackets *详情Product information: P82	C02消除应力元件 Tiewrap elements *详情Product information: P84
		横分隔片 Horizontal separators 产品编码Part No.: SH.03.12.000 *详情Product information: P80	扩展波纹管支架 Bellows expansion brackets *详情Product information: P86	

技术参数 Installation dimensions

	架空长度 Unsupported length ≤ 3.7m	速度/ 加速度 Speed / acceleration FL_g ≤ 10 [m/s] / 50 [m/s²]
	滑行距离 Sliding length 不适用 Inapplicable	速度/ 加速度 Speed / acceleration FL_g ≤ 3 [m/s] / 6 [m/s²]
	竖直悬挂 Vertical hanging ≤ 50m	滑行速度/ 加速度 Sliding speed / acceleration 不适用 Inapplicable
	垂直站立 Vertical standing ≤ 4.5m	允许温度 Permitted temperature -40℃ ~120℃
	侧向架空 Side-unsupported length ≤ 2.5m	阻燃等级 Flammability Class UL94 HB

预装拖链订购编码 Order code for pre-assembled cable chains

拖链本体 Body	选配 Optional	附件 Accessories
C02 . 45 . 075 . 100 . 020 .	N/W . NC . A1 .	SV0203 . SH01 . TE03
拖链系列 Chain series	内高 Inner height	内宽 Inner width
弯曲半径 Bend radius	链节数量 Link quantity	打开方向 Open direction
无预紧上拱 Without camber	接头安装形式 Mounting bracket installation code	竖分隔片 Vertical separators
横分隔片 Horizontal separators	去应力件 Strain relief elements	

- ① 根据需求提供无预应力上拱度NC版本拖链 Upon request for NC version without camber
- ② SV0203: 每间隔2pcs空链节安装3pcs竖分隔片 Install 3pcs vertical separators every 2pcs blank links
- ③ SH01: 横分隔片1pc 默认安装中间孔位 Horizontal separator 1pc installed in the middle hole
- ④ TE03: 拖链接头带3pcs去应力元件 Mounting brackets with 3pcs stress relief elements

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

C03 重载型电缆拖链 High load cable chains

C03重载型电缆拖链结合了电缆拖链之前所有的优点，是所有CSB-PCC®电缆拖链中最好的。在与其它系列拖链具有相同或更小尺寸的情况下，具有更好的稳固性。使用C03电缆拖链成本更低，寿命更长。

C03 high load cable chains combines all the advantages of the previous versions and is the best CSB-PCC® chains in the product range. C03 cable chains is stronger whilst having the same or even smaller dimensions than previous versions. You can increase the service life of your application with C03 cable chains whilst reducing cost.



可从两侧打开
Openable from both sides



阻燃等级 Flammability Class
UL94 HB



符合CE 标准 certification



RoHS认证 certification



根据需求提供ESD抗静电荷/防爆版拖链C03E
Electrically conductive ESD/ATEX version C03E upon request

多个固定方向
Multiple fixing directions

可选配去分隔片
With separators are available

内高32-80mm，内宽50-250mm
Inner height from 32mm to 80mm
Inner width from 50mm to 250mm

可从两侧打开
Openable from both sides

高强度与稳定性连接设计
High strength and stability connection design

可选配去应力元件与电缆夹
With strain reliefs or cable clamps

长行程拖行滑行垫
Sliding pads for dragging application



C03

CSB-PCC®

www.csb-ep.com
sales@csb-ep.com

Tel: 0086 573 84186133/84185527
Fax: 0086 573 84185517

标准尺寸 Standard dimensions

重载型电缆拖链 High load cable chains	产品编码 Part No.	内宽 Bi Inner width [mm]	外宽 Ba Outer width [mm]	内高 Hi Inner height [mm]	外高 Ha Outer height [mm]	弯曲半径 R Bend radius [mm]	架空长度 Unsupported length [m]	页码 Page
	C03.32	50-200	73-223	32	54	63-300	≤3.0	P60
	C03.42	50-200	76-226	42	64	75-350	≤4.2	P63
	C03.56	100-300	134-334	56	84	135-400	≤5.0	P66
	C03.80	100-300	148-298	80	108	150-500	≤5.8	P69

安装说明 Installation



并排排列两个内侧链接并附加一个外侧链接
Line up two inner side links side by side.
Attach an outer side link between



推入与销卡合
Push, click and snap in pin



横杆安装-从一侧卡入
Assemble crossbars - push down and snap from one side



按压横杆卡入到位
Press crossbar and snap in place



拆卸横杆
Remove crossbars
螺丝刀插入槽中利用杠杆运动撬开横杆
Insert screwdriver into the slot. Using a lever action, release the crossbars

典型适用行业和应用 Typical Applicable Industries and Applications

- 升降平台和起重机
- 通用机械
- 搬运机器
- 制冷工程
- 工程机械
- 木工机械
- 石材切割机
- 长行程拖行应用
- Lift plats & cranes
- General mechanical
- Handling machines
- Refrigeration engineering
- Construction machinery
- Woodworking machines
- Stone cutting machines
- Long travel and sliding applications

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

C03.32 重载型电缆拖链 High load cable chains

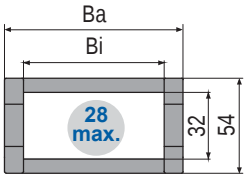
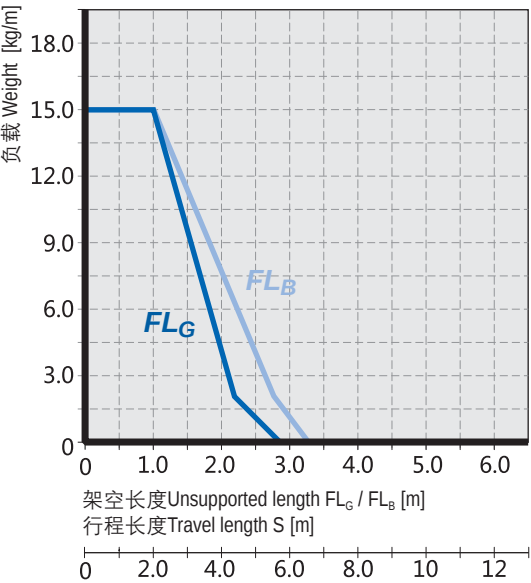


标准尺寸 Standard dimensions

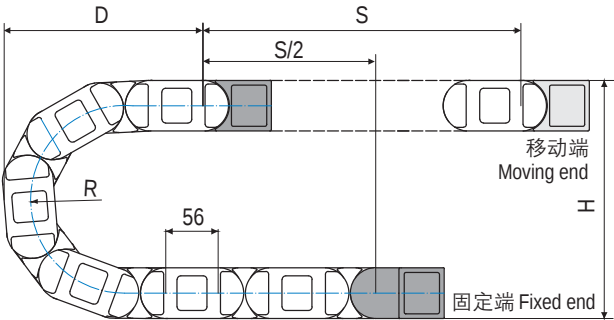
产品编码 Part No.	内宽 Bi	外宽 Ba	内高 Hi	外高 Ha	弯曲半径 R										重量
	Inner width [mm]	Outer width [mm]	Inner height [mm]	Outer height [mm]	Bend radius [mm]										Weight [kg/m]
C03.32.050	50	73	32	54	063	075	100	125	150	175	200	220	250	300	1.567
C03.32.075	75	98	32	54	063	075	100	125	150	175	200	220	250	300	1.73
C03.32.100	100	123	32	54	063	075	100	125	150	175	200	220	250	300	1.88
C03.32.125	125	148	32	54	063	075	100	125	150	175	200	220	250	300	2.06
C03.32.150	150	173	32	54	063	075	100	125	150	175	200	220	250	300	2.21
C03.32.175	175	198	32	54	063	075	100	125	150	175	200	220	250	300	2.34
C03.32.200	200	223	32	54	063	075	100	125	150	175	200	220	250	300	2.51

*根据要求提供 Available upon request

安装尺寸 Installation dimensions



内高 Inner height Bi: 32mm
节距 Link pitch T: 56mm
链节数 Link quantity: 18pcs/m
安装高度 Clearance height H_c : $H+40$ mm
拖链长度 Chain length: $S/2+K$



*如果安装空间受到限制请咨询CSB®. Please consult CSB® if space is particularly restricted.

自由链节
Flexible Link

*可S型站立
*S-shaped Standing

拖链接头尺寸 Mounting bracket dimensions

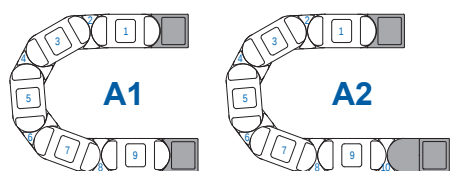


CSB-PC®

www.csb-ep.com
sales@csb-ep.com

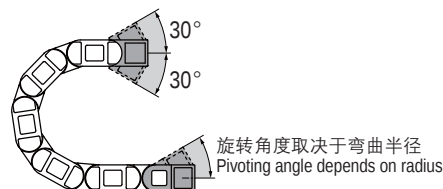
Tel: 0086 573 84186133/84185527
Fax: 0086 573 84185517

接头安装方式 Mounting bracket installation optional



*C03.32拖链接头安装方式示意图 Possible installation configurations
*接头安装方式取决于链节数是奇数还是偶数：奇数为A1，偶数为A2
Depending on the number of links is odd or even. A1 for odd-numbered links and A2 for even-numbered links.

特殊配置 Special optional



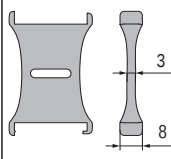
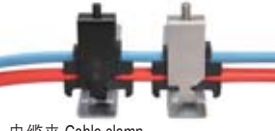
*特殊配置请咨询CSB®
Please contact CSB® for special optional

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

C03.32

附件 Accessories

 	C03竖分隔片 Vertical separators 产品编码Part No.: SV.C03.32 *详情Product information: P77		C03 C型支架 C-profile brackets *详情Product information: P83		C03消除应力元件 Tiewrap elements *详情Product information: P84
 	横分隔片 Horizontal separators 产品编码Part No.: SH.04.15.000 *详情Product information: P80		电缆夹 Cable clamp *详情Product information: P85		C03滑行垫 Sliding pads for cable chains *详情Product information: P79
	BL01波纹管 Bellows *详情Product information: P86		BL01波纹管支架 Brackets *详情Product information: P88		

技术参数 Installation dimensions

	架空长度 Unsupported length	≤ 3.0m	速度/ 加速度 Speed / acceleration FL _G	≤ 10 [m/s] / 50 [m/s ²]
	滑行距离 Sliding length	≤ 50m	速度/ 加速度 Speed / acceleration FL _B	≤ 3 [m/s] / 6 [m/s ²]
	竖直悬挂 Vertical hanging	≤ 30m	滑行速度/ 加速度 Sliding speed / acceleration	≤ 4 [m/s] / 25 [m/s ²]
	垂直站立 Vertical standing	≤ 2.5m	允许温度 Permitted temperature	-40℃ ~120℃
	侧向架空 Side-unsupported length	≤ 2.0m	阻燃等级 Flammability Class	UL94 HB

预装拖链订购编码 Order code for pre-assembled cable chains

拖链本体 Body					选配 Optional	附件 Accessories			
C03 . 32 . 050 . 075 . 020 .					A1	SV0203 . SH01 . SP . TE03			
拖链系列 Chain series	内高 Inner height	内宽 Inner width	弯曲半径 Bend radius	链节数量 Link quantity	接头安装形式 Mounting bracket installation code	竖分隔片 Vertical separators	横分隔片 Horizontal separators	滑行垫 Sliding pads for cable chains	去应力件 Strain relief elements
						1	2		3

- ① SV0203: 每间隔2pcs空链节安装3pcs竖分隔片 Install 3pcs vertical separators every 2pcs blank links
② SH01: 横分隔片1pc 默认安装在中间孔位 Horizontal separator 1pc installed in the middle hole
③ TE03: 拖链接头带3pcs去应力元件 Mounting brackets with 3pcs strain relief elements

C03.42 重载型电缆拖链 High load cable chains

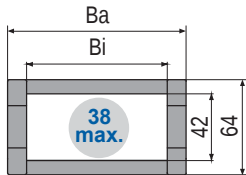
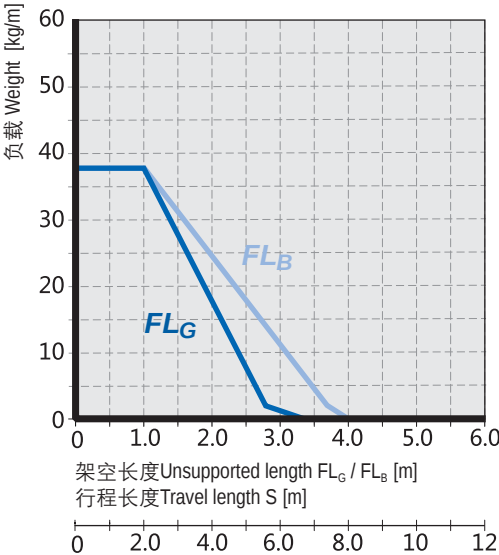


标准尺寸 Standard dimensions

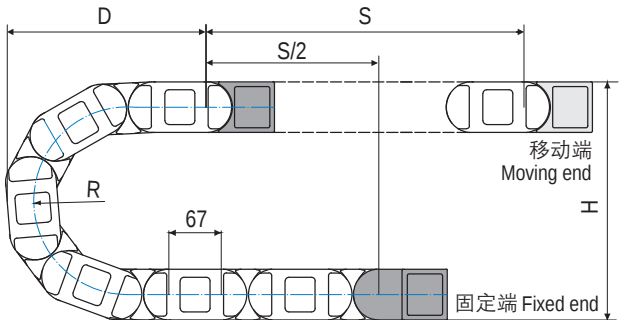
产品编码 Part No.	内宽 Bi	外宽 Ba	内高 Hi	外高 Ha	弯曲半径 R									重量
	Inner width [mm]	Outer width [mm]	Inner height [mm]	Outer height [mm]	Bend radius [mm]									Weight [kg/m]
C03.42.050	50	76	42	64	075	100	125	150	175	200	250	300	350	1.92
C03.42.075	75	101	42	64	075	100	125	150	175	200	250	300	350	2.05
C03.42.100	100	126	42	64	075	100	125	150	175	200	250	300	350	2.18
C03.42.125	125	151	42	64	075	100	125	150	175	200	250	300	350	2.34
C03.42.150	150	176	42	64	075	100	125	150	175	200	250	300	350	2.46
C03.42.175	175	201	42	64	075	100	125	150	175	200	250	300	350	2.55
C03.42.200	200	226	42	64	075	100	125	150	175	200	250	300	350	2.71

*根据要求提供 Available upon request

安装尺寸 Installation dimensions



内高 Inner height Bi: 42mm
 节距 Link pitch T: 67mm
 链节数 Link quantity: 15pcs/m
 安装高度 Clearance height H_F : $H+40$ mm
 拖链长度 Chain length: $S/2+K$



*如果安装空间受到限制请咨询CSB®. Please consult CSB® if space is particularly restricted.

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

R	075	100	125	150	175	200	250	300	350
H	214	264	314	364	414	464	564	664	764
D	208	233	258	283	308	333	383	433	483
K	370	450	530	610	685	765	920	1080	1235

实际安装高度 The required clearance height: $H_f = H + 40\text{mm}$ (负载 Fill weight 2.5kg/m)

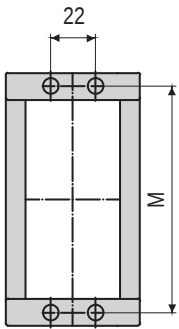
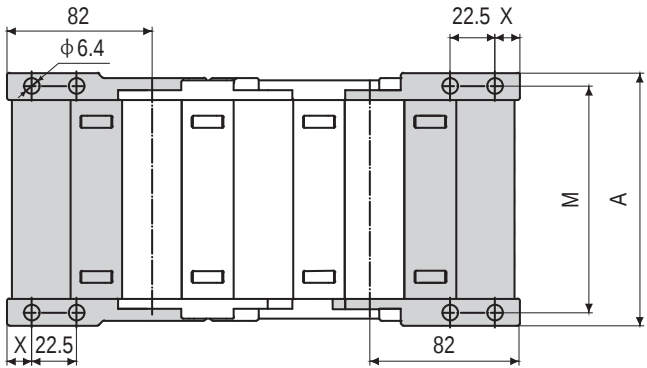


*可S型站立
*S-shaped Standing

拖链接头尺寸 Mounting bracket dimensions

0: 固定端 Fixed end

1: 移动端 Moving end



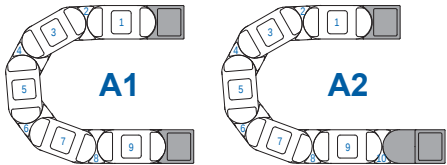
产品编码 Part No.:

C03.42.050.0

- 0: 固定端 Fixed end
- 1: 移动端 Moving end
- 拖链内宽 Inner width
- 拖链内高 Inner height
- 拖链系列 Chain series

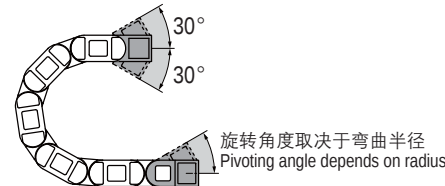
产品编码 Part No.	拖链内宽 Inner width Bi [mm]	A [mm]	X [mm]	M [mm]	安装应力单元最大数量 Max. quantity of tiewrap elements [pcs]
C03.42.050.0/1	50	77	15	66	3
C03.42.075.0/1	75	102	15	91	4
C03.42.100.0/1	100	127	15	116	6
C03.42.125.0/1	125	152	15	141	8
C03.42.150.0/1	150	177	15	166	10
C03.42.175.0/1	175	202	15	191	11
C03.42.200.0/1	200	227	15	216	13

接头安装方式 Mounting bracket installation optional



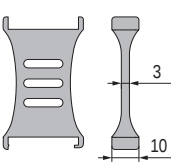
*C03.42拖链接头安装方式示意图 Possible installation configurations
*接头安装方式取决于链节数是奇数还是偶数: 奇数为A1, 偶数为A2
Depending on the number of links is odd or even. A1 for odd-numbered links and A2 for even-numbered links.

特殊配置 Special optional



*特殊配置请咨询CSB®
Please contact CSB® for special optional

附件 Accessories

 	C03竖分隔片 Vertical separators 产品编码Part No.: SV.C03.42 *详情Product information: P77	 C03 C型支架 C-profile brackets *详情Product information: P83	 C03消除应力元件 Tiewrap elements *详情Product information: P84
 	横分隔片 Horizontal separators 产品编码Part No.: SH.04.15.000 *详情Product information: P80	 电缆夹 Cable clamp *详情Product information: P85	 C03滑行垫 Sliding pads for cable chains *详情Product information: P79
 BL01波纹管 Bellows *详情Product information: P86	 BL01波纹管支架 Brackets *详情Product information: P88		

技术参数 Installation dimensions

	架空长度 Unsupported length	≤ 4.2m	速度/ 加速度 Speed / acceleration FL _G	≤ 10 [m/s] / 50 [m/s ²]
	滑行距离 Sliding length	≤ 50m	速度/ 加速度 Speed / acceleration FL _B	≤ 3 [m/s] / 6 [m/s ²]
	竖直悬挂 Vertical hanging	≤ 50m	滑行速度/ 加速度 Sliding speed / acceleration	≤ 4 [m/s] / 25 [m/s ²]
	垂直站立 Vertical standing	≤ 3.0m	允许温度 Permitted temperature	-40℃ ~120℃
	侧向架空 Side-unsupported length	≤ 2.1m	阻燃等级 Flammability Class	UL94 HB

预装拖链订购编码 Order code for pre-assembled cable chains

拖链本体 Body					选配 Optional	附件 Accessories			
C03 . 42 . 050 . 075 . 020					A1	SV0203 . SH01 . SP . TE03			
拖链系列 Chain series	内高 Inner height	内宽 Inner width	弯曲半径 Bend radius	链节数量 Link quantity	接头安装形式 Mounting bracket installation code	竖分隔片 Vertical separators 1	横分隔片 Horizontal separators 2	滑行垫 Sliding pads for cable chains	去应力件 Strain relief elements 3

- ① SV0203: 每间隔2pcs空链节安装3pcs竖分隔片 Install 3pcs vertical separators every 2pcs blank links
- ② SH01: 横分隔片1pc 默认安装中间孔位 Horizontal separator 1pc installed in the middle hole
- ③ TE03: 拖链接头带3pcs去应力元件 Mounting brackets with 3pcs stress relief elements

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

C03.56 重载型电缆拖链 High load cable chains

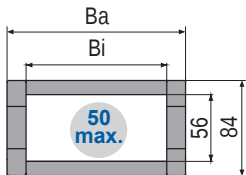
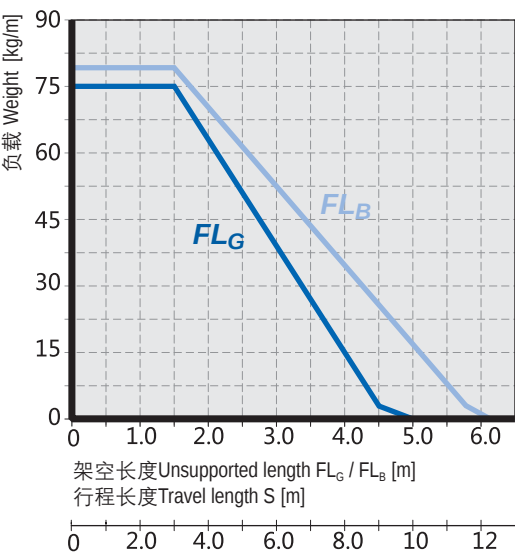


标准尺寸 Standard dimensions

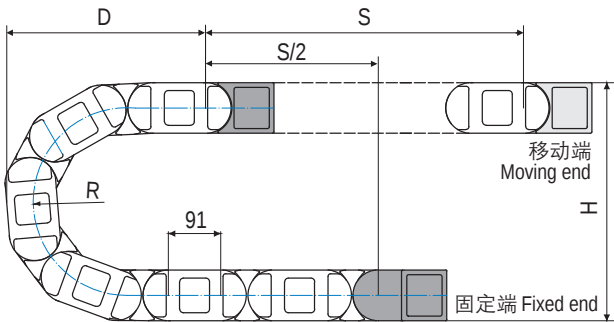
产品编码 Part No.	内宽 Bi Inner width [mm]	外宽 Ba Outer width [mm]	内高 Hi Inner height [mm]	外高 Ha Outer height [mm]	弯曲半径 R Bend radius [mm]						重量 Weight [kg/m]		
C03.56.100	100	134	56	84	135	150	175	200	250	300	350	400	3.66
C03.56.125	125	159	56	84	135	150	175	200	250	300	350	400	3.82
C03.56.150	150	184	56	84	135	150	175	200	250	300	350	400	4.00
C03.56.175	175	209	56	84	135	150	175	200	250	300	350	400	4.25
C03.56.200	200	234	56	84	135	150	175	200	250	300	350	400	4.41
C03.56.225	225	259	56	84	135	150	175	200	250	300	350	400	4.55
C03.56.250	250	284	56	84	135	150	175	200	250	300	350	400	4.77
C03.56.275	275	309	56	84	135	150	175	200	250	300	350	400	4.96
C03.56.300	300	334	56	84	135	150	175	200	250	300	350	400	5.17

*根据要求提供 Available upon request

安装尺寸 Installation dimensions



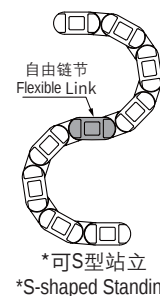
内高 Inner height Bi: 56mm
节距 Link pitch T: 91mm
链节数 Link quantity: 11pcs/m
安装高度 Clearance height H_F: H+50mm
拖链长度 Chain length: S/2+K



*如果安装空间受到限制请咨询CSB®. Please consult CSB® if space is particularly restricted.

R	135	150	175	200	250	300	350	400
H	354	384	434	484	584	684	784	884
D	314	329	354	379	429	479	529	579
K	610	655	735	815	970	1125	1285	1440

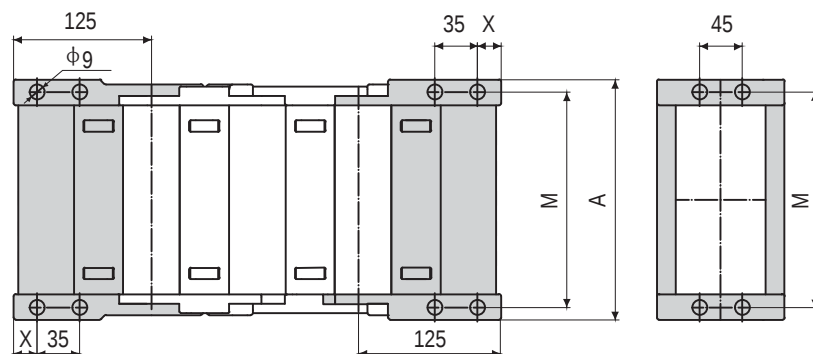
实际安装高度 The required clearance height: $H_p = H + 40\text{mm}$ (负载 Fill weight 2.5kg/m)



拖链接头尺寸 Mounting bracket dimensions

0: 固定端 Fixed end

1: 移动端 Moving end



产品编码 Part No.:

C03.56.075.0

0: 固定端 Fixed end

1: 移动端 Moving end

拖链内宽 Inner width

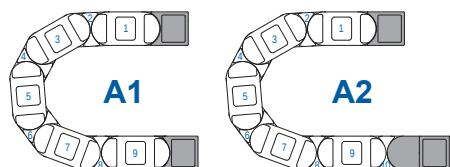
拖链内高 Inner height

拖链系列 Chain series

产品编码 Part No.	拖链内宽 Inner width Bi [mm]	A [mm]	X [mm]	M [mm]	安装应力单元最大数量 Max. quantity of tiewrap elements [pcs]
C03.56.100.0/1	100	141	20	123	6
C03.56.125.0/1	125	166	20	148	8
C03.56.150.0/1	150	191	20	173	10
C03.56.175.0/1	175	216	20	198	11
C03.56.200.0/1	200	241	20	223	13
C03.56.225.0/1	225	266	20	248	15
C03.56.250.0/1	250	291	20	273	16
C03.56.275.0/1	275	316	20	298	18
C03.56.300.0/1	300	341	20	323	20

*根据要求提供 Available upon request

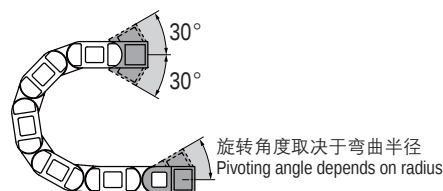
接头安装方式 Mounting bracket installation optional



*C03.56拖链接头安装方式示意图 Possible installation configurations

*接头安装方式取决于链节数是奇数还是偶数: 奇数为A1, 偶数为A2
Depending on the number of links is odd or even. A1 for odd-numbered links and A2 for even-numbered links.

特殊配置 Special optional



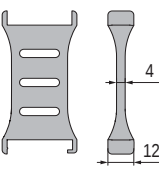
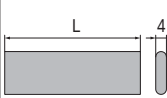
*特殊配置请咨询CSB®

Please contact CSB® for special optional

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链 C03.56

附件 Accessories

		C03竖分隔片 Vertical separators 产品编码Part No.: SV.C03.56 *详情Product information: P77		
		横分隔片 Horizontal separators 产品编码Part No.: SH.04.15.000 *详情Product information: P80		
		BL01波纹管 Bellows *详情Product information: P86		

技术参数 Installation dimensions

	架空长度 Unsupported length	≤ 5m	速度/加速度 Speed / acceleration FL ₀	≤ 10 [m/s] / 50 [m/s ²]
	滑行距离 Sliding length	≤ 70m	速度/加速度 Speed / acceleration FL _B	≤ 3 [m/s] / 6 [m/s ²]
	竖直悬挂 Vertical hanging	≤ 40m	滑行速度/加速度 Sliding speed / acceleration	≤ 4 [m/s] / 25 [m/s ²]
	垂直站立 Vertical standing	≤ 3.0m	允许温度 Permitted temperature	-40℃ ~120℃
	侧向架空 Side-unsupported length	≤ 2.5m	阻燃等级 Flammability Class	UL94 HB

预装拖链订购编码 Order code for pre-assembled cable chains

拖链本体 Body					选配 Optional	附件 Accessories			
C03 . 56 . 100 . 150 . 020 .					A1 .	SV0203 . SH01 . SP . TE03			
拖链系列 Chain series	内高 Inner height	内宽 Inner width	弯曲半径 Bend radius	链节数量 Link quantity	接头安装形式 Mounting bracket installation code	竖分隔片 Vertical separators	横分隔片 Horizontal separators	滑行垫 Sliding pads for cable chains	去应力件 Strain relief elements
						1	2		3

- ① SV0203: 每间隔2pcs空链节安装3pcs竖分隔片 Install 3pcs vertical separators every 2pcs blank links
② SH01: 横分隔片1pc 默认安装中间孔位 Horizontal separator 1pc installed in the middle hole
③ TE03: 拖链接头带3pcs去应力元件 Mounting brackets with 3pcs stress relief elements

C03.80 重载型电缆拖链 High load cable chains

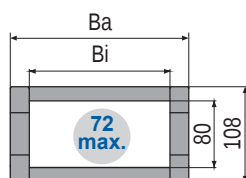
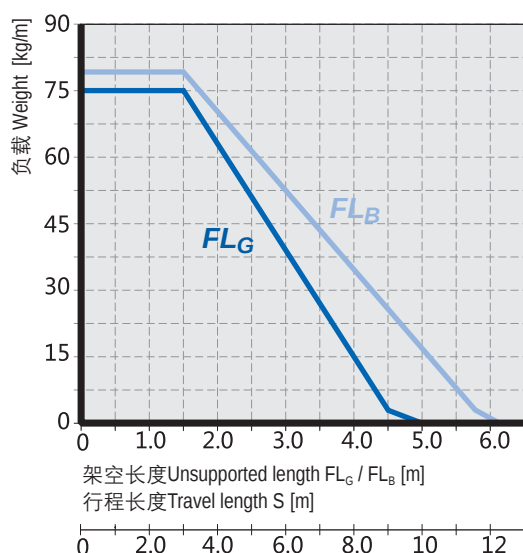


标准尺寸 Standard dimensions

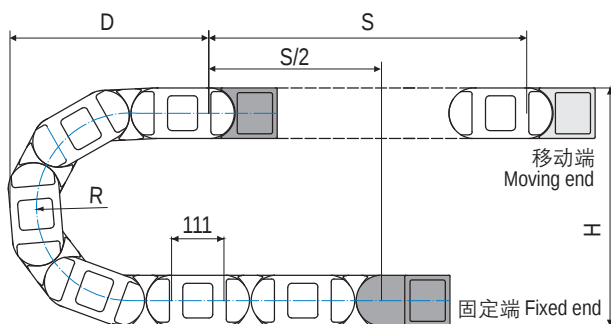
产品编码 Part No.	内宽 Bi	外宽 Ba	内高 Hi	外高 Ha				弯曲半径 R					重量
	Inner width [mm]	Outer width [mm]	Inner height [mm]	Outer height [mm]				Bend radius [mm]					Weight [kg/m]
C03.80.100	100	148	80	108	150	200	250	300	350	400	450	500	8.42
C03.80.125	125	173	80	108	150	200	250	300	350	400	450	500	8.67
C03.80.150	150	198	80	108	150	200	250	300	350	400	450	500	8.92
C03.80.175	175	223	80	108	150	200	250	300	350	400	450	500	9.17
C03.80.200	200	248	80	108	150	200	250	300	350	400	450	500	9.42
C03.80.225	225	273	80	108	150	200	250	300	350	400	450	500	9.67
C03.80.250	250	298	80	108	150	200	250	300	350	400	450	500	9.92
C03.80.275	275	323	80	108	150	200	250	300	350	400	450	500	10.17
C03.80.300	300	348	80	108	150	200	250	300	350	400	450	500	10.42

*根据要求提供 Available upon request

安装尺寸 Installation dimensions



内高 Inner height Bi: 80mm
 节距 Link pitch T: 111mm
 链节数 Link quantity: 9pcs/m
 安装高度 Clearance height H_F: H+60mm
 拖链长度 Chain length: S/2+K



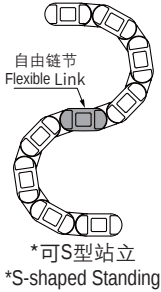
*如果安装空间受到限制请咨询CSB®. Please consult CSB® if space is particularly restricted.

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

R	150	200	250	300	350	400	450	500
H	408	508	608	708	808	908	1008	1108
D	445	495	545	595	645	695	745	795
K	693	850	1007	1164	1321	1479	1635	1793

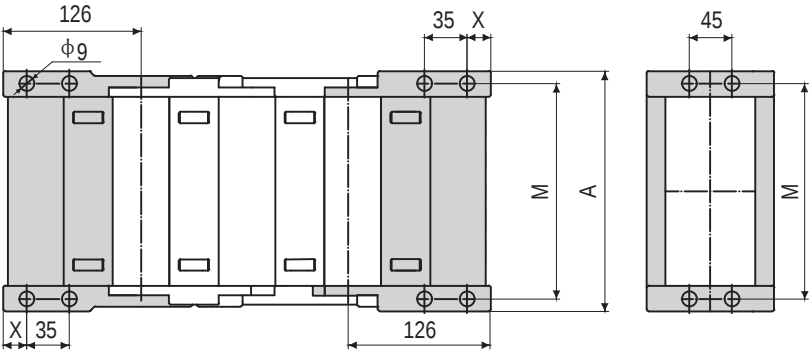
实际安装高度 The required clearance height: $H_f = H + 40\text{mm}$ (负载 Fill weight 2.5kg/m)



拖链接头尺寸 Mounting bracket dimensions

0:固定端 Fixed end

1:移动端 Moving end



产品编码 Part No.:

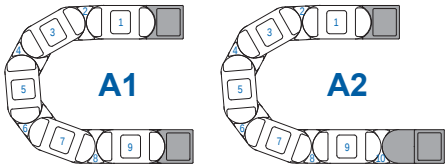
C03.80.100.0

- 0: 固定端 Fixed end
- 1: 移动端 Moving end
- 拖链内宽 Inner width
- 拖链内高 Inner height
- 拖链系列 Chain series

产品编码 Part No.	拖链内宽 Inner width Bi [mm]	A [mm]	X [mm]	M [mm]	安装应力单元最大数量 Max. quantity of tie-wrap elements [pcs]
C03.80.100.0/1	100	148	21	128	6
C03.80.125.0/1	125	173	21	153	8
C03.80.150.0/1	150	198	21	178	10
C03.80.175.0/1	175	223	21	203	11
C03.80.200.0/1	200	248	21	228	13
C03.80.225.0/1	225	273	21	253	15
C03.80.250.0/1	250	298	21	278	16
C03.80.275.0/1	275	323	21	303	18
C03.80.300.0/1	300	348	21	328	20

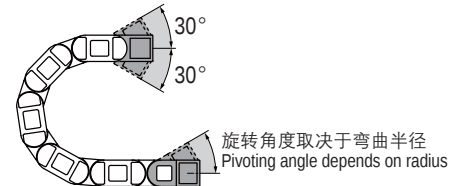
*根据要求提供 Available upon request

接头安装方式 Mounting bracket installation optional



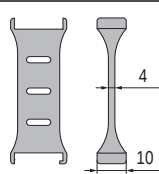
*C03.80拖链接头安装方式示意图 Possible installation configurations
*接头安装方式取决于链节数是奇数还是偶数: 奇数为A1, 偶数为A2
Depending on the number of links is odd or even. A1 for odd-numbered links and A2 for even-numbered links.

特殊配置 Special optional



*特殊配置请咨询CSB®
Please contact CSB® for special optional

附件 Accessories

		C03竖分隔片 Vertical separators 产品编码Part No.: SV.C03.80 *详情Product information: P77		C03 C型支架 C-profile brackets *详情Product information: P83		C03消除应力元件 Tie-wrap elements *详情Product information: P84
		横分隔片 Horizontal separators 产品编码Part No.: SH.04.15.000 *详情Product information: P80		电缆夹 Cable clamp *详情Product information: P85		C03滑行垫 Sliding pads for cable chains *详情Product information: P79
		BL01 波纹管 Bellows *详情Product information: P86		BL01波纹管支架 Brackets *详情Product information: P88		

① 技术参数 Installation dimensions

	架空长度 Unsupported length	≤ 5.8m	速度/ 加速度 Speed / acceleration FL_g	≤ 10 [m/s] / 50 [m/s²]
	滑行距离 Sliding length	≤ 100m	速度/ 加速度 Speed / acceleration FL_g	≤ 3 [m/s] / 6 [m/s²]
	竖直悬挂 Vertical hanging	≤ 60m	滑行速度/ 加速度 Sliding speed / acceleration	≤ 4 [m/s] / 25 [m/s²]
	垂直站立 Vertical standing	≤ 4.0m	允许温度 Permitted temperature	-40 °C ~120 °C
	侧向架空 Side-unsupported length	≤ 3.0m	阻燃等级 Flammability Class	UL94 HB

🛒 预装拖链订购编码 Order code for pre-assembled cable chains

拖链本体 Body					选配 Optional	附件 Accessories			
C03 . 80 . 100 . 150 . 020 .					A1	SV0203 . SH01 . SP . TE03			
拖链系列 Chain series	内高 Inner height	内宽 Inner width	弯曲半径 Bend radius	链节数量 Link quantity	接头安装形式 Mounting bracket installation code	竖分隔片 Vertical separators	横分隔片 Horizontal separators	滑行垫 Sliding pads for cable chains	去应力件 Strain reliever elements
						①	②		③

① SV0203: 每间隔2pcs空链节安装3pcs竖分隔片 Install 3pcs vertical separators every 2pcs blank links

② SH01: 横分隔片1pc 默认安装中间孔位 Horizontal separator 1pc installed in the middle hole

③ TE03: 拖链接头带3pcs去应力元件 Mounting brackets with 3pcs stress relief elements

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

C04 静音型电缆拖链

Quiet cable chains, light and cleanroom suitable

C04静音型电缆拖链重量轻、适用于无尘环境；特殊弹性结构转动连接设计，消除拖链运动中的撞击噪音，且电缆拖链即使在高速运动中也能保持平稳无振动。

C04 quiet cable chains are very light and cleanroom suitable, the special elastic structure design for rotation connection eliminates the impact noise in the movement, making them ideal for highly dynamic and cleanroom applications.



可从两侧打开
Openable from both sides



46dB, V=1.8m/s
CSB实验室数据CSB lab test
拖链Chain: C04.28.050.055



阻燃等级 Flammability Class
UL94 HB



符合CE 标准 Compliance European



RoHS认证 certification



低噪音 Low-noise

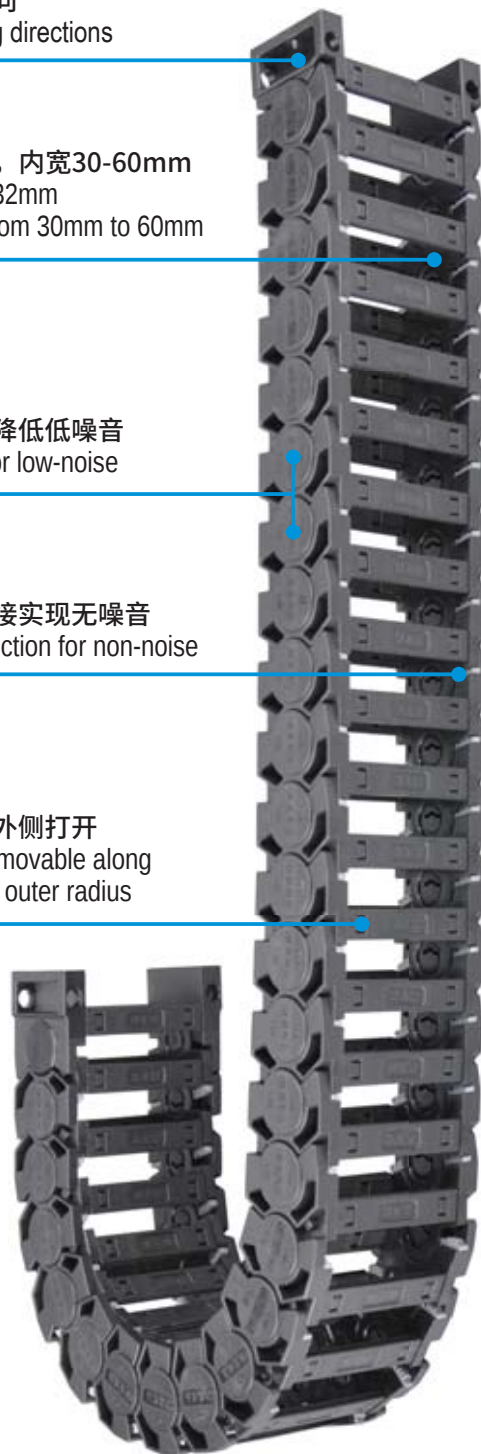
多个固定方向
Multiple fixing directions

内高28mm，内宽30-60mm
Inner height 32mm
Inner width from 30mm to 60mm

小节距设计降低低噪音
Small pitch for low-noise

特殊弹性连接实现无噪音
Elastic connection for non-noise

横杆可沿内外侧打开
Crossbars removable along
the inner and outer radius



C04

CSB-PCC®

www.csb-ep.com
sales@csb-ep.com

Tel: 0086 573 84186133/84185527
Fax: 0086 573 84185517

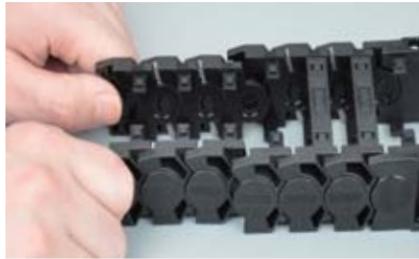
标准尺寸 Standard dimensions

静音型电缆拖链 Quiet cable chains, light and cleanroom suitable	产品编码 Part No.	内宽 Bi Inner width [mm]	外宽 Ba Outer width [mm]	内高 Hi Inner height [mm]	外高 Ha Outer height [mm]	弯曲半径 R Bend radius [mm]	架空长度 Unsupported length [m]	页码 Page
	C04.28	30-60	46-76	28	35	55-150	≤1.0	P74

安装说明 Installation



弹性元件插入侧板
Insert elastic parts into side plates



并排排列两个内侧链接并附加一个外侧链接
Line up two inner side links side by side.
Attach an outer side link between



推入与销卡合
Push, click and snap in pin



横杆安装-从一侧卡入
Assemble crossbars - push down and snap from one side



按压横杆卡入到位
Press crossbar and snap in place



拆卸横杆
Remove crossbars
螺丝刀插入槽中利用杠杆运动撬开横杆
Insert screwdriver into the slot. Using a lever action, release the crossbars

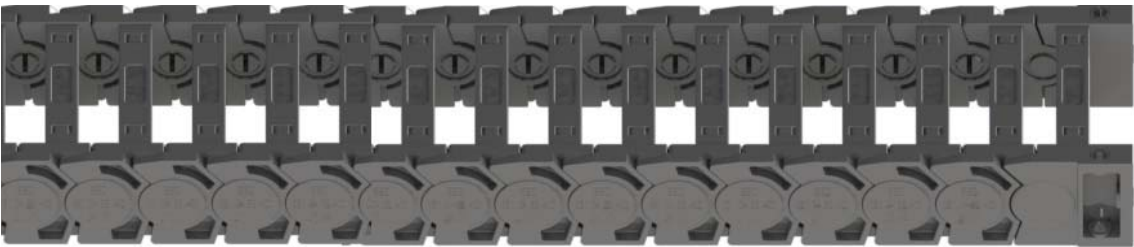
典型适用行业和应用 Typical Applicable Industries and Applications

- 洁净室应用
- 印刷机
- 搬运和机器人
- 测量机
- 半导体行业
- 医疗行业
- 电子行业
- 通用机械
- Cleanroom applications
- Printing machines
- Handling & robots
- Measuring machines
- Semi-conductor industries
- Medical industries
- Electronic industries
- General machinery

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

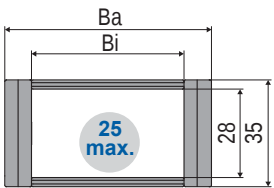
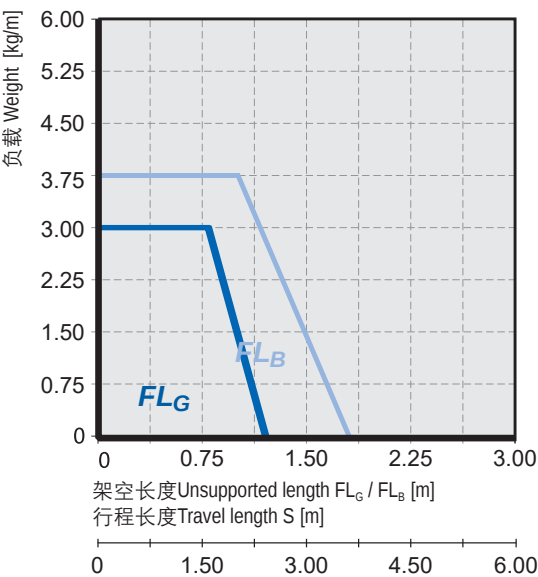
C04.28 静音型电缆拖链 Quiet cable chains, light and cleanroom suitable



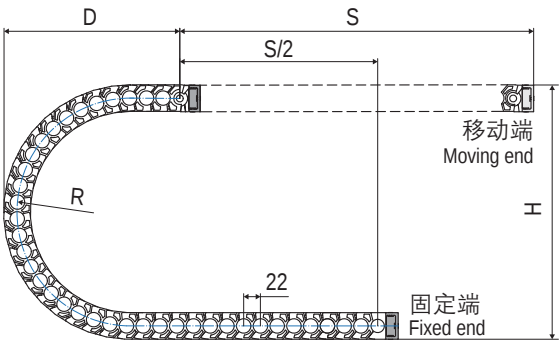
标准尺寸 Standard dimensions

产品编码 Part No.	内宽 Bi Inner width [mm]	外宽 Ba Outer width [mm]	内高 Hi Inner height [mm]	外高 Ha Outer height [mm]	弯曲半径 R Bend radius [mm]	重量 Weight [kg/m]
C04.28.30	30	46	28	35	055 075 100 150	0.73
C04.28.40	40	56	28	35	055 075 100 150	0.75
C04.28.50	50	66	28	35	055 075 100 150	0.78
C04.28.60	60	76	28	35	055 075 100 150	0.80

安装尺寸 Installation dimensions



内高 Inner height Bi: 28mm
节距 Link pitch T: 22mm
链节数 Link quantity: 46pcs/m
安装高度 Clearance height H_F: H+40mm
拖链长度 Chain length: S/2+K



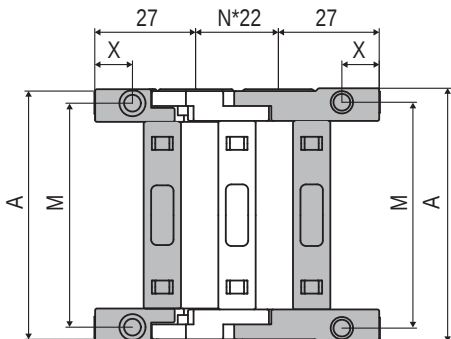
*如果安装空间受到限制请咨询CSB®. Please consult CSB® if space is particularly restricted.

R	055	075	100	150
H	180	220	270	370
D	108	128	153	203
K	220	280	360	520

实际安装高度 The required clearance height: H_F=H+15mm (负载 Fill weight 0.3kg/m)

拖链接头尺寸 Mounting bracket dimensions

1: 移动端 Moving end 0: 固定端 Fixed end



产品编码 Part No.:

C04.28.30.0



0: 固定端 Fixed end
1: 移动端 Moving end
拖链内宽 Inner width
拖链内高 Inner height
拖链系列 Chain series

产品编码 Part No.	拖链内宽 Inner width Bi [mm]	A [mm]	X [mm]	M [mm]
C04.28.30.0/1	30	57.5	10	40
C04.28.40.0/1	40	67.5	10	50
C04.28.50.0/1	50	77.5	10	60
C04.28.60.0/1	60	87.5	10	70

附件 Accessories

			C04竖分隔片 Vertical separators 产品编码Part No.: SV.C04.28 *详情Product information: P78
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技术参数 Installation dimensions

	架空长度 Unsupported length	≤ 1m	速度/ 加速度 Speed / acceleration FL _G	≤ 3 [m/s] / 8 [m/s ²]
	滑行距离 Sliding length	不适用 Inapplicable	速度/ 加速度 Speed / acceleration FL _B	≤ 2 [m/s] / 4 [m/s ²]
	竖直悬挂 Vertical hanging	≤ 5m	滑行速度/ 加速度 Sliding speed / acceleration	不适用 Inapplicable
	垂直站立 Vertical standing	≤ 0.5m	允许温度 Permitted temperature	-40 °C ~120 °C
	侧向架空 Side-unsupported length	≤ 0.5m	阻燃等级 Flammability Class	UL94 HB

预装拖链订购编码 Order code for pre-assembled cable chains

拖链本体 Body					附件 Accessories
C04 . 28 . 30 . 055 . 020					SV0203
拖链系列 Chain series	内高 Inner height	内宽 Inner width	弯曲半径 Bend radius	链节数量 Link quantity	竖分隔片 Vertical separators
					1

① SV0203: 每间隔2pcs空链节安装3pcs竖分隔片 Install 3pcs vertical separators every 2pcs blank links

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

附件 | 分隔片 Accessories | Separators

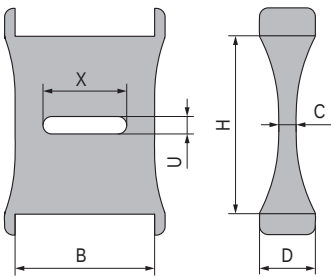
■ C02竖分隔片 Vertical separators



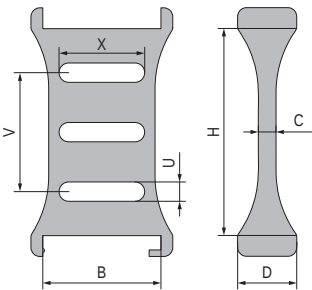
- 分隔片，将链内空间按需要分隔开电缆、油管、气管等起到保护作用
- 具有较高强度的分隔片，可稳固的装备于拖链中
- 同时满足安装简单快速
- The separator separates inside space of the chain to protect cables, oil hoses, gas hoses, etc.
- Separator with high strength, can be firmly fitted in chain
- Quickly and easily installation

标准尺寸 Standard dimensions

SV.C02.18/25



SV.C02.35/45



产品编码 Part No.:

SV.C02.25

拖链内高 Inner Height
拖链型号 Chain type
分隔片系列 Separator series

产品编码 Part No.	产品编码 Part No.	H _{0.25} [mm]	X [mm]	V [mm]	C [mm]	D [mm]	U [mm]	B [mm]
SV.C02.18	SV.C02E.18	18	12	/	2.5	8	3	20
SV.C02.25	SV.C02E.25	25	12	/	2.5	8	3	20
SV.C02.35	SV.C02E.35	35	12	14.6	3	10	3	20
SV.C02.45	SV.C02E.45	45	12	18	3	10	3	22



可沿横杆自由移动
Move freely along the crossbar

附件 | 分隔片 Accessories | Separators

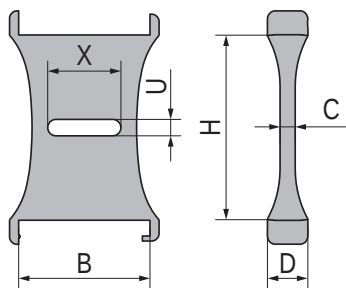
■ C03竖分隔片 Vertical separators



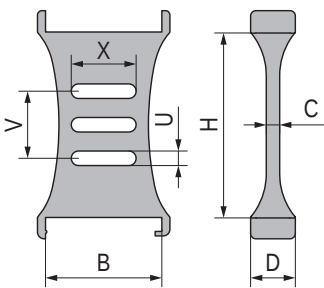
- 分隔片，将链内空间按需要分隔开电缆、油管、气管等起到保护作用
- 具有较高强度的分隔片，可稳固的装备于拖链中
- 同时满足安装简单快速
- The separator separates inside space of the chain to protect cables, oil hoses, gas hoses, etc.
- Separator with high strength, can be firmly fitted in chain
- Quickly and easily installation

标准尺寸 Standard dimensions

SV.C03.32



SV.C03.42/56/80



产品编码 Part No.:

SV.C03.32

拖链内高 Inner Height

拖链型号 Chain type

分隔片系列 Separator series

产品编码 Part No.	H _{0.25} [mm]	X [mm]	V [mm]	C [mm]	D [mm]	U [mm]	B [mm]
SV.C03.32	32	12	/	3	8	3	26
SV.C03.42	42	12	17	3	10	3	26
SV.C03.56	56	15	22.7	4	12	4	30
SV.C03.80	80	15	40	4	10	4	30



可沿横杆自由移动
Move freely along the crossbar

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

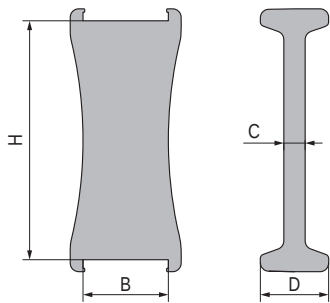
附件 | 分隔片 Accessories | Separators

■ C04竖分隔片 Vertical separators



- 将链内空间按需要分隔开电缆、油管、气管等起到保护作用
- 具有较高强度的分隔片，可稳固的装备于拖链中
- 同时满足安装简单快速
- The separator separates inside space of the chain to protect cables, oil hoses, gas hoses, etc.
- Separator with high strength, can be firmly fitted in chain
- Quickly and easily installation

标准尺寸 Standard dimensions



🛒 产品编码 Part No.:

SV.C04.28

- 拖链内高 Inner Height
- 拖链型号 Chain type
- 分隔片系列 Separator series

产品编码 Part No.	$H_{0.25}^0$ [mm]	C [mm]	D [mm]	B [mm]
SV.C04.28	28	2.5	8	10



可沿横杆自由移动
Move freely along the crossbar

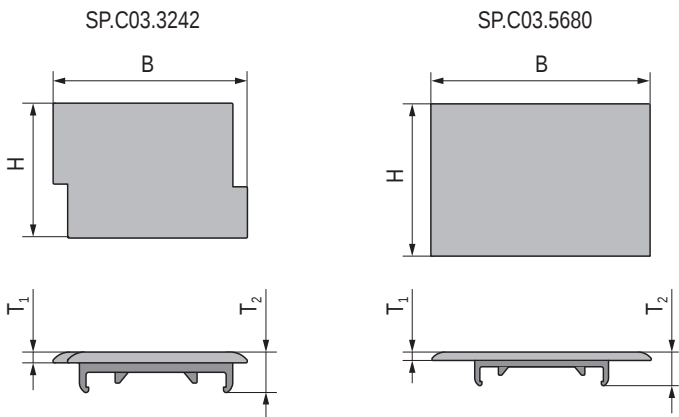
附件 | C03电缆拖链长行程拖行-滑行垫 Accessories | Sliding pads for cable chains

C03电缆拖链长行程拖行-滑行垫 Horizontal separators-Sliding pads for cable chains



- 用于C03塑料电缆拖链长行程保护
- 经过摩擦优化耐磨复合塑料制成
- 坚固耐用，延长电缆拖链寿命
- 作为独立部件供货
- Used for C03 cable chains long stroke protection
- Made of friction-optimized wear-resistant composite plastic
- Rugged and durable, extend the life of the cable chain
- Supplied as a individual component

标准尺寸 Standard dimensions



产品编码 Part No.:
 SP.C03.3242
 编号Code
 拖链型号 Chain type
 滑行垫系列 Sliding pads series

产品编码 Part No.	适配拖链 Suitable for chains	B [mm]	H [mm]	T ₁ [mm]	T ₂ [mm]	重量 Weight [g]
SP.C03.3242	C03.32 / C03.42	37	25	2	7.5	3.5
SP.C03.5680	C03.56 / C03.80	53	36	2	8	7



可拆卸，安装简易
Removable and easy
to install

未安装滑行垫
Without sliding pads



滑行垫安装后
Assembled sliding pads



CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

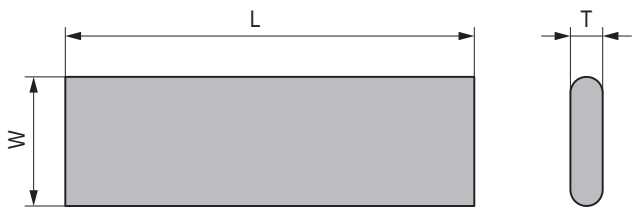
附件 | 分隔片 Accessories | Separators

■ 横分隔片 Horizontal separators



- 可用于许多直径电缆应用，横分隔片可以放置适合宽度
- C03.42和C03.56提供了3个不同高度横向分隔槽位
- 横分隔片中的竖分隔片可在水平方向自由移动
- Horizontal separators are available for many diameter cable applications
- Three different height for C03.42 and C03.56
- The vertical separator in the horizontal separator can move freely in the horizontal direction

标准尺寸 Standard dimensions



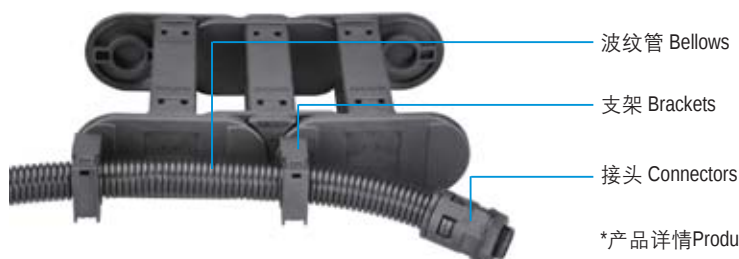
产品编码 Part No.:
SH.03.12.000
长度
宽度
厚度
分隔片系列 Separator series

产品编码 Part No.	L [mm]	W [mm]	T [mm]	重量 Weight [g]
SH.03.12.038	38	12	3	2.5
SH.03.12.048	48	12	3	3.2
SH.03.12.050	50	12	3	3.3
SH.03.12.057	57	12	3	3.8
SH.03.12.060	60	12	3	4.0
SH.03.12.067	67	12	3	4.5
SH.03.12.075	75	12	3	5.0
SH.03.12.077	77	12	3	5.1
SH.03.12.080	80	12	3	5.3
SH.03.12.087	87	12	3	5.8
SH.03.12.100	100	12	3	6.6
SH.03.12.103	103	12	3	6.8
SH.03.12.125	125	12	3	8.3
SH.03.12.150	150	12	3	9.9
SH.03.12.175	175	12	3	11.6
SH.03.12.200	200	12	3	13.2
SH.04.15.100	100	15	4	11.0
SH.04.15.125	125	15	4	13.8
SH.04.15.150	150	15	4	16.6
SH.04.15.175	175	15	4	19.3
SH.04.15.200	200	15	4	22.1
SH.04.15.225	225	15	4	24.9
SH.04.15.250	250	15	4	27.6

拖链类别 Plastic cable chains	拖链型号 Cable chain specifications	横分隔片 Horizontal separators	最大安装数量 Max. installation quantities [pcs/link]
C02 通用型拖链 Universal cable chains	C02.18	SH.03.12.000	1
	C02.25	SH.03.12.000	1
	C02.35	SH.03.12.000	1
	C02.45	SH.03.12.000	2
C02E 抗静电拖链 ESD cable chains	C02E.18	SH.03.12.000	1
	C02E.25	SH.03.12.000	1
	C02E.35	SH.03.12.000	1
	C02E.45	SH.03.12.000	2
C03 重载型拖链 High load cable chains	C03.32	SH.03.12.000	1
	C03.42	SH.03.12.000	2
	C03.56	SH.04.15.000	3
	C03.80	SH.04.15.000	3

附件 | 波纹管 Accessories | Bellows

拖链产品编码 Cable chains part No.	拖链内高 Inner height [mm]	拖链外高 Outer height [mm]	适配波纹管 Bellows	适配波纹管支架 Brackets	适配波纹管外径 Bellows outer diameter [mm]
C02.35	35	50	AD13.0 至 to AD25.0	VHB-AD13.0 至 to VHB-AD25.0	≤25
C02.45	45	64	AD13.0 至 to AD28.5	VHB-AD13.0 至 to VHB-AD28.5	≤28.5
C03.32	32	54	AD13.0 至 to AD21.2	VHB-AD13.0 至 to VHB-AD21.2	≤21.2
C03.42	42	64	AD13.0 至 to AD28.5	VHB-AD13.0 至 to VHB-AD28.5	≤28.5
C03.56	56	84	AD13.0 至 to AD42.5	VHB-AD13.0 至 to VHB-AD42.5	≤42.5
C03.80	80	108	AD13.0 至 to AD54.5	VHB-AD13.0 至 to VHB-AD54.5	≤54.5



*产品详情Product information: P86-P91

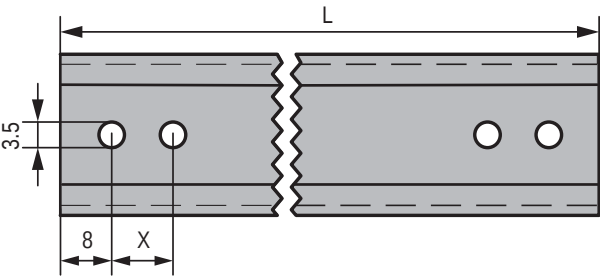
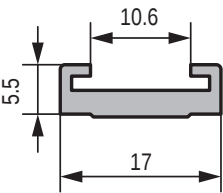
CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

附件 | 消除应力元件 Accessories | Strain relief elements

■ C02 C型支架 C-profile brackets

安装在拖链接头内部 Mounted on the inside of the chain brackets



产品编码 Part No.:

CB.C02.038.AL

材料铝合金 Materials: Aluminum

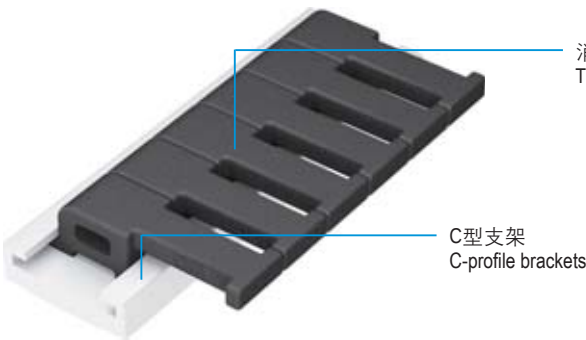
拖链内宽 Inner width

拖链系列 Chain series

支架系列 Bracket series

- 铝合金材质，表面阳极氧化
- 消除应力元件可在导向槽内运动
- Aluminum alloy, surface anodized
- The tiewrap elements can move within the guide slot

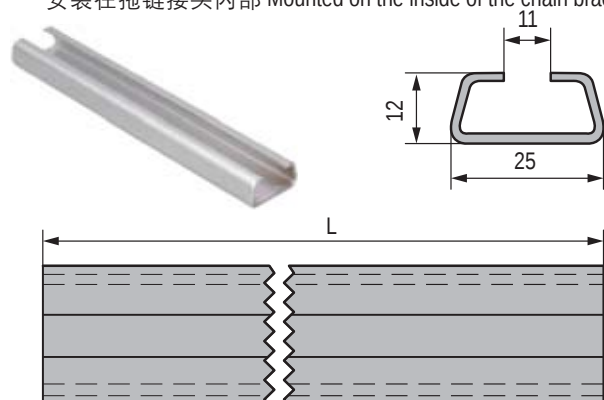
产品编码 Part No.	X (C02.18/25) [mm]	X (C02.35/45) [mm]	L [mm]
CB.C02.038.AL	8	10	38
CB.C02.048.AL	8	10	48
CB.C02.050.AL	8	10	50
CB.C02.057.AL	8	10	57
CB.C02.060.AL	8	10	60
CB.C02.067.AL	8	10	67
CB.C02.077.AL	8	10	77
CB.C02.080.AL	8	10	80
CB.C02.087.AL	8	10	87
CB.C02.100.AL	8	10	100
CB.C02.103.AL	8	10	103
CB.C02.125.AL	8	10	125
CB.C02.150.AL	8	10	150
CB.C02.175.AL	8	10	175



附件 | 消除应力元件 Accessories | Strain relief elements

C03 C型支架 C-profile brackets

安装在拖链接头内部 Mounted on the inside of the chain brackets



产品编码 Part No.:

CB.C03.050.GS

ES:材料不锈钢 Stainless steel

GS:镀锌钢 Galvanized steel

拖链内宽 Inner width

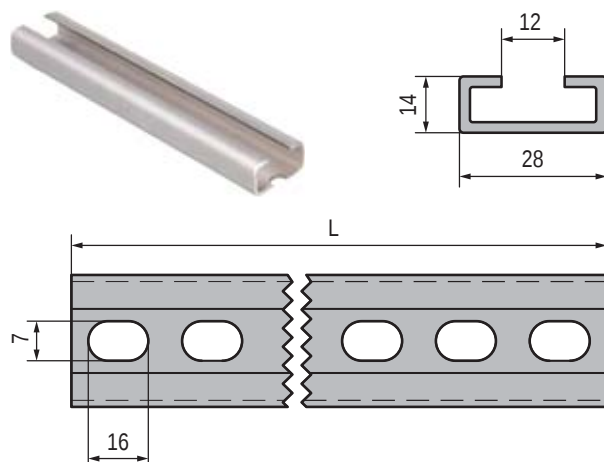
拖链系列 Chain series

支架系列 Bracket series

产品编码 Part No.	产品编码 Part No.	L [mm]
CB.C03.050.GS	CB.C03.050.ES	50
CB.C03.075.GS	CB.C03.075.ES	75
CB.C03.100.GS	CB.C03.100.ES	100
CB.C03.125.GS	CB.C03.125.ES	125
CB.C03.150.GS	CB.C03.150.ES	150
CB.C03.175.GS	CB.C03.175.ES	175
CB.C03.200.GS	CB.C03.200.ES	200
CB.C03.225.GS	CB.C03.225.ES	225
CB.C03.250.GS	CB.C03.250.ES	250

C03 C型支架 C-profile bracket for heavy-duty applications

安装在拖链接头外部 Mounted on the outside of the chain brackets



产品编码 Part No.:

CB.HD.050.ES

ES:材料不锈钢 Stainless steel

GS:镀锌钢 Galvanized steel

拖链内宽 Inner width

重载系列 Heavy-duty series

支架系列 Bracket series

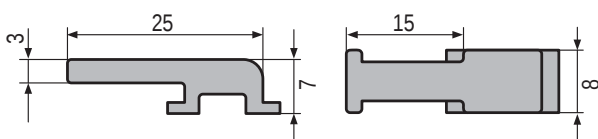
产品编码 Part No.	产品编码 Part No.	L [mm]
CB.HD.050.GS	CB.HD.050.ES	50
CB.HD.075.GS	CB.HD.075.ES	75
CB.HD.100.GS	CB.HD.100.ES	100
CB.HD.125.GS	CB.HD.125.ES	125
CB.HD.150.GS	CB.HD.150.ES	150
CB.HD.175.GS	CB.HD.175.ES	175
CB.HD.200.GS	CB.HD.200.ES	200
CB.HD.225.GS	CB.HD.225.ES	225
CB.HD.250.GS	CB.HD.250.ES	250

CSB-PCC[®] Plastic Cable Chains

CSB-PCC[®] 工程塑料电缆拖链

附件 | 消除应力元件 Accessories | Strain relief elements

■ C02 消除应力元件 Tiewrap elements



- 作为独立部件供货
- 适用C型支架，带梳齿状应力元件
- 更方便固定电缆，易于拆装
- 节约安装时间，空间、成本，紧凑的模块化设计
- Available as an individual component
- Can be clipped into C-profile bracker
- Easy to assemble and fix cables
- Save assemble time and space,compact modular design

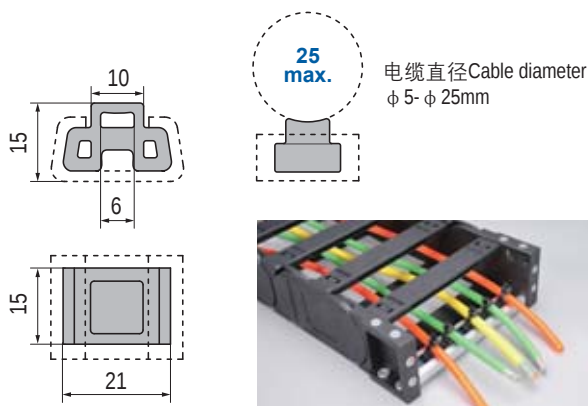


产品编码 Part No.:

TE.C02.08.15

梳齿长度 Tiewrap tooth length
宽度 Width
拖链系列 Chain series
去应力元件 Tiewrap elements

■ C03 消除应力元件 Tiewrap elements



- 作为独立部件供货
- 适用C型支架，配合扎带使用
- 更方便固定电缆，易于拆装
- 节约安装时间，空间、成本，紧凑的模块化设计
- Available as an individual component
- Used with C-profile bracker and tiewraps
- Easy to assemble and fix cables
- Save assemble time and space,compact modular design



产品编码 Part No.:

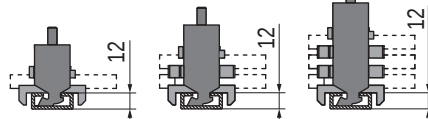
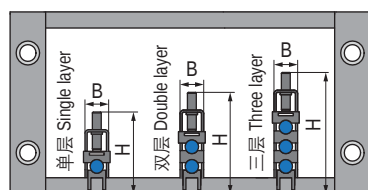
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最大扎带宽度 Max. tiewrap width
底座宽度 Block width
拖链系列 Chain series
去应力元件 Tiewrap elements

附件 | 电缆夹 Accessories | Cable clamp



标准尺寸 Standard dimensions



产品编码 Part No.:

CFX12.1.E

空白Blank: 碳钢 Carbon steel
E: 不锈钢 Stainless steel1: 单层 Single layer
2: 双层 Double layer
3: 三层 Three layer— 电缆最大直径 Cable max. diameter
— 电缆夹系列 Cable clamp series

单层电缆夹 Single layer cable clamp:

产品编码(碳钢) Part No. (Carbon steel)	产品编码(不锈钢) Part No. (Stainless steel)	直径 Diameter [mm]	B [mm]	H [mm]	重量 Weight [g]
CFX12.1	CFX12.1.E	06-12	16	48	30
CFX14.1	CFX14.1.E	12-14	18	50	33
CFX16.1	CFX16.1.E	14-16	20	52	36
CFX18.1	CFX18.1.E	16-18	22	54	39
CFX20.1	CFX20.1.E	18-20	24	56	42
CFX22.1	CFX22.1.E	20-22	26	58	45

产品编码(碳钢) Part No. (Carbon steel)	产品编码(不锈钢) Part No. (Stainless steel)	直径 Diameter [mm]	B [mm]	H [mm]	重量 Weight [g]
CFX26.1	CFX26.1.E	22-26	30	67	48
CFX30.1	CFX30.1.E	26-30	34	71	48
CFX34.1	CFX34.1.E	30-34	38	75	51
CFX38.1	CFX38.1.E	34-38	42	79	54
CFX42.1	CFX42.1.E	38-42	46	83	60

双层电缆夹 Double layer cable clamp:

产品编码(碳钢) Part No. (Carbon steel)	产品编码(不锈钢) Part No. (Stainless steel)	直径 Diameter [mm]	B [mm]	H [mm]	重量 Weight [g]
CFX12.2	CFX12.2.E	06-12	16	69	47
CFX14.2	CFX14.2.E	12-14	18	71	52
CFX16.2	CFX16.2.E	14-16	20	75	57
CFX18.2	CFX18.2.E	16-18	22	79	62
CFX20.2	CFX20.2.E	18-20	24	83	67

产品编码(碳钢) Part No. (Carbon steel)	产品编码(不锈钢) Part No. (Stainless steel)	直径 Diameter [mm]	B [mm]	H [mm]	重量 Weight [g]
CFX22.2	CFX22.2.E	20-22	26	87	72
CFX26.2	CFX26.2.E	22-26	30	105	77
CFX30.2	CFX30.2.E	26-30	34	113	82
CFX34.2	CFX34.2.E	30-34	38	121	88

三层电缆夹 Three layer cable clamp:

产品编码(碳钢) Part No. (Carbon steel)	产品编码(不锈钢) Part No. (Stainless steel)	直径 Diameter [mm]	B [mm]	H [mm]	重量 Weight [g]
CFX12.3	CFX12.3.E	06-12	16	86	64
CFX14.3	CFX14.3.E	12-14	18	92	69
CFX16.3	CFX16.3.E	14-16	20	98	74
CFX18.3	CFX18.3.E	16-18	22	104	79

产品编码(碳钢) Part No. (Carbon steel)	产品编码(不锈钢) Part No. (Stainless steel)	直径 Diameter [mm]	B [mm]	H [mm]	重量 Weight [g]
CFX20.3	CFX20.3.E	18-20	24	110	84
CFX22.3	CFX22.3.E	20-22	26	116	89
CFX26.3	CFX26.3.E	24-26	30	128	99
CFX30.3	CFX30.3.E	28-30	34	140	109

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

BL 波纹管 Bellows



BL波纹管适用于众多通用机械行业，出色的耐低温和自阻燃性能还适用于汽车工业。此系列波纹管可在低温下保持较好的抗冲击性能，并具有良好的耐候性。

- 自阻燃V2
- 针对冷冲击强度而改良聚酰胺制成
- 不含卤素和镉，即使在低温下也具有高抗冲击强度
- 运行温度范围: -40℃ 至 +105℃; 短期: +150℃
- 化学抗性: 可耐受燃料, 矿物油, 油脂, 弱酸和弱碱等

BL bellows is suitable for use in general mechanical applications, The good anti-freezing ability and self-extinguishing properties can be used in automotive industries. The bellows keep high impact resistance in cold temperatures and good weather resistance.

- Self-extinguishing class V2
- Made of polyamide with specially modified to withstand freezing temperatures
- Halogen and cadmium free, high impact resistance, even at low temperatures
- Temperature range: -40℃ to +105℃; short-term: +150℃
- Chemical resistance: Against fuels, mineral oils, greases, alkalis, weak acids and bases, etc.



阻燃等级 Flammability Class
UL94 V2



RoHS认证 certification



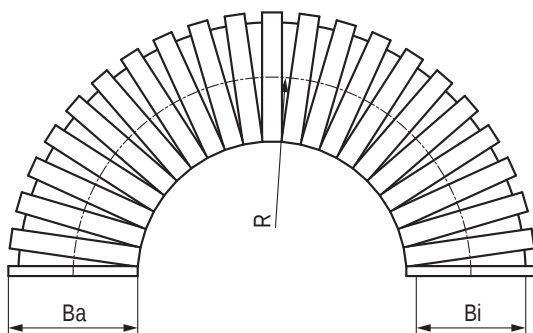
可扭转运动
Torsional motion possible

BL01 波纹管 Bellows



标准尺寸 Standard dimensions

产品编码(全封闭) Part No. (Close)	产品编码(开口) Part No. (Open)	内径 Bi Inner diameter [mm]	外径 Ba Outer diameter [mm]	弯曲半径 R Bend radius [mm]	拉伸强度 Max. tension strength [N]	延伸率 Strain at break [%]	最大长度 Max. length [m]	重量 Weight [kg/m]
BL01-06-AD10.0	BL01-06-AD10.0-OP	6.0	10.0	16	200	120%	100	0.018
BL01-10-AD13.0	BL01-10-AD13.0-OP	10.0	13.0	20	350	120%	100	0.023
BL01-12-AD15.8	BL01-12-AD15.8-OP	12.0	15.8	30	500	150%	100	0.033
BL01-14-AD18.5	BL01-14-AD18.5-OP	14.3	18.5	40	650	160%	100	0.042
BL01-17-AD21.2	BL01-17-AD21.2-OP	17.0	21.2	45	850	200%	100	0.054
BL01-20-AD25.0	BL01-20-AD25.0-OP	20.0	25.0	45	1000	200%	100	0.062
BL01-23-AD28.5	BL01-23-AD28.5-OP	23.0	28.5	50	1100	200%	50	0.084
BL01-26-AD32.0	BL01-26-AD32.0-OP	26.0	32.0	55	1200	200%	50	0.093
BL01-29-AD34.5	BL01-29-AD34.5-OP	29.0	34.5	60	1600	200%	50	0.104
BL01-36-AD42.5	BL01-36-AD42.5-OP	36.0	42.5	70	1800	200%	50	0.138
BL01-48-AD54.5	BL01-48-AD54.5-OP	48.0	54.5	90	2800	200%	25	0.224



产品编码 Part No.:

BL01-10-AD13.0-OP

开口 Open

波纹管外径 Inner width

波纹管内径 Inner height

波纹管系列 Chain series

附件 Accessories



支架 Brackets

*详情Product information: P124



快速接头 Quick connectors

*详情Product information: P124



防水接头 Water-proof connectors

*详情Product information: P124



直角接头 Right-angle connectors

*详情Product information: P124

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

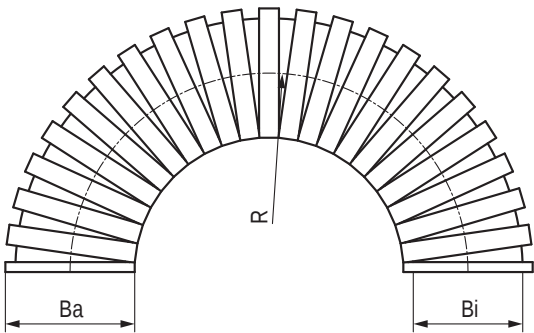
BL02

BL02 波纹管 Bellows



标准尺寸 Standard dimensions

产品编码(全封闭) Part No. (Close)	产品编码(开口) Part No. (Open)	内径 Bi Inner diameter [mm]	外径 Ba Outer diameter [mm]	弯曲半径 R Bend radius [mm]	拉伸强度 Max. tension strength [N]	延伸率 Strain at break [%]	最大长度 Max. length [m]	重量 Weight [kg/m]
BL02-10-AD13.0	BL02-10-AD13.0-OP	10.0	13.0	20	350	120%	100	0.023
BL02-12-AD15.8	BL02-12-AD15.8-OP	12.0	15.8	30	500	150%	100	0.033
BL02-14-AD18.5	BL02-14-AD18.5-OP	14.3	18.5	40	650	160%	100	0.042
BL02-17-AD21.2	BL02-17-AD21.2-OP	17.0	21.2	45	850	200%	100	0.054
BL02-20-AD25.0	BL02-20-AD25.0-OP	20.0	25.0	45	1000	200%	100	0.062
BL02-23-AD28.5	BL02-23-AD28.5-OP	23.0	28.5	50	1100	200%	50	0.084
BL02-29-AD34.5	BL02-29-AD34.5-OP	29.0	34.5	60	1600	200%	50	0.104
BL02-36-AD42.5	BL02-36-AD42.5-OP	36.0	42.5	70	1800	200%	50	0.138
BL02-48-AD54.5	BL02-48-AD54.5-OP	48.0	54.5	90	2800	200%	25	0.224



产品编码 Part No.:

BL02-10-AD13.0-OP

开口 Open

波纹管外径 Inner width

波纹管内径 Inner height

波纹管系列 Chain series

附件 Accessories



支架 Brackets
*详情Product information: P124



快速接头Quick connectors
*详情Product information: P124



直角接头Right-angle connectors
*详情Product information: P124

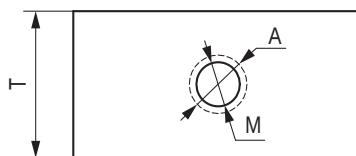
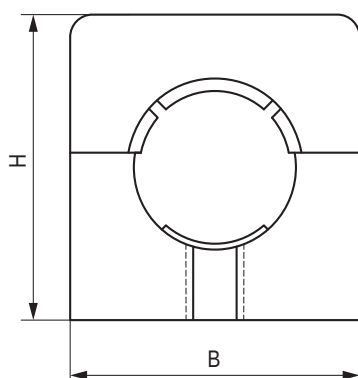
附件 | VHB波纹管支架 Accessories | Brackets

■ VHB-GY波纹管支架 Brackets



- 节约安装时间、空间、成本、紧凑的模块化设计
- 不易老化，使用安全，寿命长
- 极佳的抗冲击强度
- Compact modular design to save installation time, space and cost
- Long life and safety in use
- Excellence in impact strength

标准尺寸 Standard dimensions



产品编码 Part No.:

VHB-AD13.0-GY

空白: 黑色 Black
GY: 灰色 Grey

适配软管 Bellows

支架系列 Series

产品编码 Part No.	产品编码 Part No.	适配软管 Bellows	B [mm]	H [mm]	T [mm]	M [mm]	A [mm]	重量 Weight [g]
VHB-AD13.0	VHB-AD13.0-GY	AD13.0	30	26	12.5	4.5	8.0	7.4
VHB-AD15.8	VHB-AD15.8-GY	AD15.8	30	26	12.5	5.0	8.5	7.4
VHB-AD18.5	VHB-AD18.5-GY	AD18.5	35	33	15.0	6.0	10.0	9.0
VHB-AD21.2	VHB-AD21.2-GY	AD21.2	35	34	15.0	6.0	10.0	9.0
VHB-AD25.0	VHB-AD25.0-GY	AD25.0	42	38	16.0	6.0	11.5	10.6
VHB-AD28.5	VHB-AD28.5-GY	AD28.5	42	42	16.0	6.0	11.5	10.6
VHB-AD34.5	VHB-AD34.5-GY	AD34.5	51	52	16.0	6.5	12.0	12.2
VHB-AD42.5	VHB-AD42.5-GY	AD42.5	58	59	18.0	6.5	12.0	13.8
VHB-AD54.5	VHB-AD54.5-GY	AD54.5	73	74	20.0	7.0	12.5	15.4

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

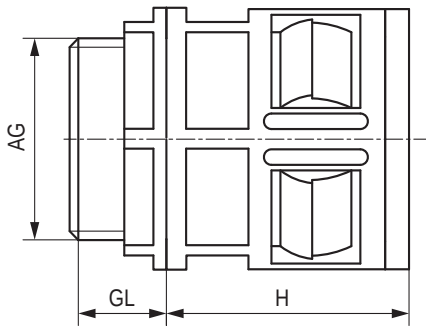
附件 | QDC波纹管快速接头 Accessories | Quick connectors

■ QDC波纹管快速接头 Quick connectors



- 节约安装时间、空间、成本、紧凑的模块化设计
- 应用广泛，可实现最高的安全和密封性能
- 不易老化，使用安全，寿命长
- 极佳的抗冲击强度
- Compact modular design reduces cost and provides less installation time and space
- Wide range of applications for maximum safety and sealing performance
- Great durability, anti-aging, safe to use, long life
- Excellent impact strength

标准尺寸 Standard dimensions



产品编码 Part No.:

QDC-AD13.0-M16x1.5-GY

- 空白: 黑色 Black
- GY: 灰色 Grey
- 螺纹尺寸 Thread
- 适配软管 Bellows
- 支架系列 Series

产品编码 Part No.	产品编码 Part No.	适配软管 Bellows	螺纹尺寸 Thread [mm]	AG外径 Outer diameter [mm]	AG内径 Inner diameter [mm]	GL [mm]	H [mm]	重量 Weight [g]
QDC-AD13.0-M16x1.5	QDC-AD13.0-M16x1.5-GY	AD13.0	M16x1.5	16	12	10	25	2.2
QDC-AD15.8-M16x1.5	QDC-AD15.8-M16x1.5-GY	AD15.8	M16x1.5	16	12	12	28	2.7
QDC-AD18.5-M20x1.5	QDC-AD18.5-M20x1.5-GY	AD18.5	M20x1.5	20	15	12	28	2.7
QDC-AD21.2-M20x1.5	QDC-AD21.2-M20x1.5-GY	AD21.2	M20x1.5	20	15	12	31	3.7
QDC-AD25.0-M25x1.5	QDC-AD25.0-M25x1.5-GY	AD25.0	M25x1.5	25	20	11	33	4.2
QDC-AD28.5-M25x1.5	QDC-AD28.5-M25x1.5-GY	AD28.5	M25x1.5	25	20	13	34	4.5
QDC-AD34.5-M32x1.5	QDC-AD34.5-M32x1.5-GY	AD34.5	M32x1.5	32	26	15	36	9.2
QDC-AD42.5-M40x1.5	QDC-AD42.5-M40x1.5-GY	AD42.5	M40x1.5	40	34	15	39	10.9
QDC-AD54.5-M50x1.5	QDC-AD54.5-M50x1.5-GY	AD54.5	M50x1.5	50	43	15	39	16.6

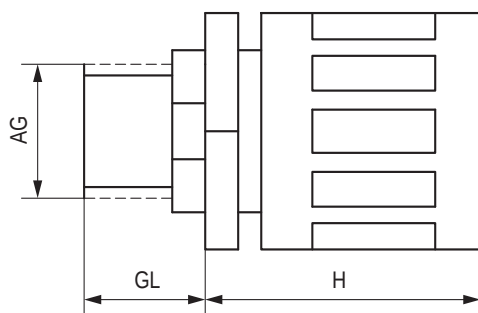
附件 | WPC波纹管防水接头 Accessories | Water-proof connectors

■ WPC波纹管防水接头 Water-proof connectors



- 防水等级IP68
- 节约安装时间、空间、成本、紧凑的模块化设计
- 内置防水密封圈，防水效果可靠，拉力强
- 不易老化，使用安全，寿命长
- 极佳的抗冲击强度
- Waterproof grade IP68
- Compact modular design, easy to installation, safe to use, cost less
- Reliable waterproof performance with sealing ring, strong tensile strength
- Not easy to age, safe to use, long service life
- Excellent impact strength

标准尺寸 Standard dimensions



产品编码 Part No.:

WPC-AD13.0-M16x1.5

螺纹尺寸 Thread

适配软管 Bellows

支架系列 Series

产品编码 Part No.	适配软管 Bellows	螺纹尺寸 Thread [mm]	AG外径 Outer diameter [mm]	GL [mm]	H [mm]	重量 Weight [g]
WPC-AD13.0-M16x1.5	AD13.0	M16x1.5	16	15	25	2.2
WPC-AD15.8-M16x1.5	AD15.8	M16x1.5	16	15	28	2.7
WPC-AD18.5-M20x1.5	AD18.5	M20x1.5	20	15	28	2.7
WPC-AD21.2-M20x1.5	AD21.2	M20x1.5	20	15	28	3.7
WPC-AD25.0-M25x1.5	AD25.0	M25x1.5	25	15	28	4.2
WPC-AD28.5-M25x1.5	AD28.5	M25x1.5	25	15	28	4.5
WPC-AD34.5-M32x1.5	AD34.5	M32x1.5	32	15	30	9.2
WPC-AD42.5-M40x1.5	AD42.5	M40x1.5	40	15	35	10.9
WPC-AD54.5-M50x1.5	AD54.5	M50x1.5	50	25	55	16.6

CSB-PCC® Plastic Cable Chains

CSB-PCC® 工程塑料电缆拖链

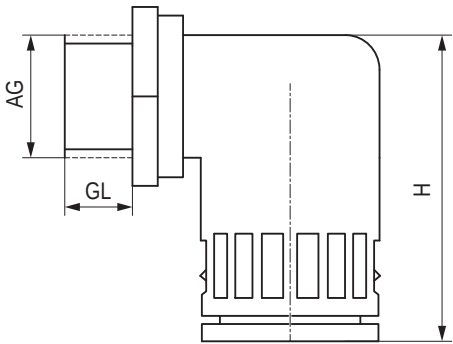
附件 | RAC波纹管直角接头 Accessories | Right-angle connectors

■ RAC波纹管直角接头 Right-angle connectors



- 节约安装时间、空间、成本、紧凑的模块化设计
- 应用广泛，可实现最高的安全和密封性能
- 不易老化，使用安全，寿命长
- 极佳的抗冲击强度
- Compact modular design saves installation time and space, as well as cost
- Wide range of applications, maximum safety and sealing performance
- Application safely, long life, good durability
- Excellent impact strength

标准尺寸 Standard dimensions



产品编码 Part No.:

RAC-AD13.0-M16x1.5-GY

空白: 黑色 Black

GY: 灰色 Grey

螺纹尺寸 Thread

适配软管 Bellows

支架系列 Series

产品编码 Part No.	产品编码 Part No.	适配软管 Bellows	螺纹尺寸 Thread [mm]	AG外径 Outer diameter [mm]	GL [mm]	H [mm]	重量 Weight [g]
RAC-AD13.0-M16x1.5	RAC-AD13.0-M16x1.5-GY	AD13.0	M16x1.5	15	10	37	3.3
RAC-AD15.8-M16x1.5	RAC-AD15.8-M16x1.5-GY	AD15.8	M16x1.5	16	13	43	4.3
RAC-AD18.5-M20x1.5	RAC-AD18.5-M20x1.5-GY	AD18.5	M20x1.5	20	13	46	5.3
RAC-AD21.2-M20x1.5	RAC-AD21.2-M20x1.5-GY	AD21.2	M20x1.5	20	13	49	6.3
RAC-AD25.0-M25x1.5	RAC-AD25.0-M25x1.5-GY	AD25.0	M25x1.5	25	13	52	7.3
RAC-AD28.5-M25x1.5	RAC-AD28.5-M25x1.5-GY	AD28.5	M25x1.5	25	13	57	8.3
RAC-AD34.5-M32x1.5	RAC-AD34.5-M32x1.5-GY	AD34.5	M32x1.5	32	15	65	10.3
RAC-AD42.5-M40x1.5	RAC-AD42.5-M40x1.5-GY	AD42.5	M40x1.5	40	15	78	12.3
RAC-AD54.5-M50x1.5	RAC-AD54.5-M50x1.5-GY	AD54.5	M50x1.5	50	17	95	16.3

CSB Metal sliding Bearings

CSB金属自润滑轴承

金属塑料复合自润滑轴承 Metal-Polymer Composite Bearings

CSB-50	钢+多孔铜粉+PTFE/添加剂 Steel + bronze powder + PTFE/filler	自润滑 Self-lubricating		RoHS
CSB-10DH	钢+多孔铜粉+PTFE/铜粉 Steel + bronze powder + PTFE/bronze powder	自润滑 Self-lubricating		RoHS
CSB-50MP	钢+多孔铜粉+PTFE/含氟树脂 Steel + bronze powder + PTFE/fluoropolymer	自润滑 Self-lubricating		RoHS
CSB-40	钢+多孔铜粉+PTFE/纤维 Steel + bronze powder + PTFE/Fibre	自润滑 Self-lubricating		RoHS
CSB-11	铜+多孔铜粉+PTFE/添加剂 Bronze + bronze powder + PTFE/filler	自润滑 Self-lubricating		RoHS
CSB-25	铝+PTFE Aluminum + PTFE Tape	自润滑 Self-lubricating		RoHS
CSB-FR	铜网+PTFE/固体润滑剂 Bronze mesh + PTFE/Solid lubricants	自润滑 Self-lubricating		RoHS
CSB-20	钢+多孔铜粉+改性聚甲醛 Steel + bronze powder + POM	边界润滑 Boundary lubricating		RoHS
CSB-80	钢+多孔铜粉+PEEK/添加剂 Steel + bronze powder + PEEK/filler	边界润滑 Boundary lubricating		RoHS

双金属卷制类复合轴承 Bi-metallic Composite Bearings

CSB-800	钢+铜铅合金粉 Steel + Lead bronze powder	持续给油 Conventional lubrication		
CSB-820	钢+无铅铜合金粉 Steel + Lead-free bronze powder	持续给油 Conventional lubrication		RoHS

青铜基卷制类轴承 Bronze Wrapped Bearings

CSB-090	铜基卷制轴承 Bronze wrapped bearings	持续给油 Conventional Lubrication		RoHS
CSB-T90	铜基卷制轴承 Bronze wrapped bearings	持续给油 Conventional Lubrication		RoHS
CSB-09G	含固体润滑剂铜基卷制轴承 Bronze wrapped bearings with graphite	起始润滑 Initial lubricating		RoHS

金属自润滑轴承 Metallic Self-lubricating Bearings

CSB650	铜基镶嵌型固体润滑轴承 Cast bronze with graphite plug	自润滑 Self-lubricating	
CSB650GT	钢基铜合金镶嵌型固体润滑轴承 Steel shell cast bronze with graphite plug	自润滑 Self-lubricating	
CSB250	铸铁镶嵌型固体润滑轴承 Cast iron with graphite plug	自润滑 Self-lubricating	
CSB85H	粉末烧结弥散型固体润滑轴承 Powder metallurgy sintered with solid lubricants	自润滑 Self-lubricating	
CSB850BM	钢基铜合金弥散型固体润滑轴承 Metal backed bronze powder with solid lubricants	自润滑 Self-lubricating	
CSB850S	钢基铁镍合金弥散型固体润滑轴承 Metal backed Fe-Ni sintered alloy with solid lubricants	自润滑 Self-lubricating	 

*更多信息 More information www.csb.com.cn

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