台灣伊維氏傳動科技有限公司

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THETA
AUTOMATION

IPA valid until: April 7, 2030

Fraunhofer
TESTED® DEVICE
Whale-Tech/SHA THETA
CW Cable Chain (CW28.068-700)
Report No. WH 2503-1599



无尘拖链系统

Cleanroom Cable Chain System

2026 V2

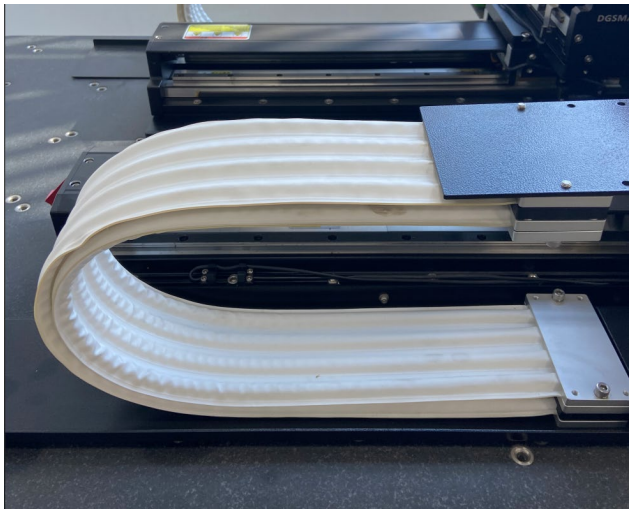
公司简介
Company profile

伊維氏傳動科技专注于无尘拖链产品的研发、生产、销售和定制化服务。工厂位于常州，配备有现代化的无尘车间和实验测试设备。

目前公司自主研发的无尘拖链，采用先进的加工和制造工艺，具有高可靠性、高承载、低发尘、高柔性、长寿命等特点，可满足多种应用场景的要求，广泛应用于半导体、医疗、新能源、自动化等高端精密制造行业。

我司产品通过了严格的粉尘、噪音、耐疲劳等测试，并取得 IPA 等权威机构认证证书。

得益于本土化生产优势，我们可以保证快速的交付周期（1-3 天）。另我司有便捷的选型软件和 3D 模型库，并配备专业的工程师团队，7×24 小时为您提供选型沟通和技术咨询。





THETA Automation (Shanghai) Co.,Ltd. focuses on the R&D, production, sales and customized services of dust-free cable chain products. Our factory is located in Changzhou, equipped with modern cleanroom workshops and laboratory test equipments.

Our company's independently developed cleanroom cable chains adopt advanced processing and manufacturing techniques. Featuring high reliability, high load capacity, low dust emission, high flexibility and long service life, they meet the requirements of various application scenarios and are widely used in high-end precision manufacturing industries including semiconductor, medical, new energy and automation.

All our product series have passed rigorous tests on dust, noise and fatigue resistance, and obtained certification from authoritative institutions such as IPA.

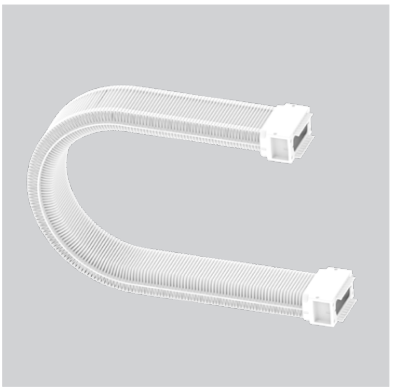
Leveraging localized production advantages, we guarantee a fast delivery cycle (1-3 days). Additionally, we provide user-friendly selection software and a professional engineer team to offer 24/7 selection consultation and technical support.

- 自主研发 *Independently developed*
- 专利保护 *Complete patents*
- 体系认证 *Certification*
- 质量保障 *Quality assurance*
- 常备库存 *Well-stocked inventory*
- 当天发货 *Same-day shipping*
- 无最小起订量 *No MOQ*
- 专业方案设计 *Professional solution design*

产品目录
Content



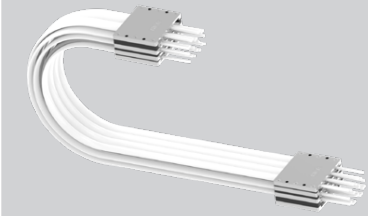
概览 *Overview* 3-4



CW 系列（可打开） *CW series (openable)*

CW15.025
CW20.033
CW24.048
CW28.068
CW28.100
CW35.065
CW40.085
CW40.110

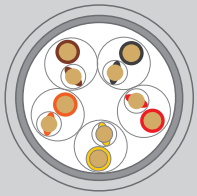
5-24



CPN 系列（不可打开） *CPN series (non-openable)*

CPN205-1
CPN205-2
CPN205-3
CPN205-4
CPN205-5
CPN205-6
CPN028-1
CPN028-2
CPN028-3
CPN028-4
CPN040-1
CPN062-1
CPN083-1
CPN096-3

25-32

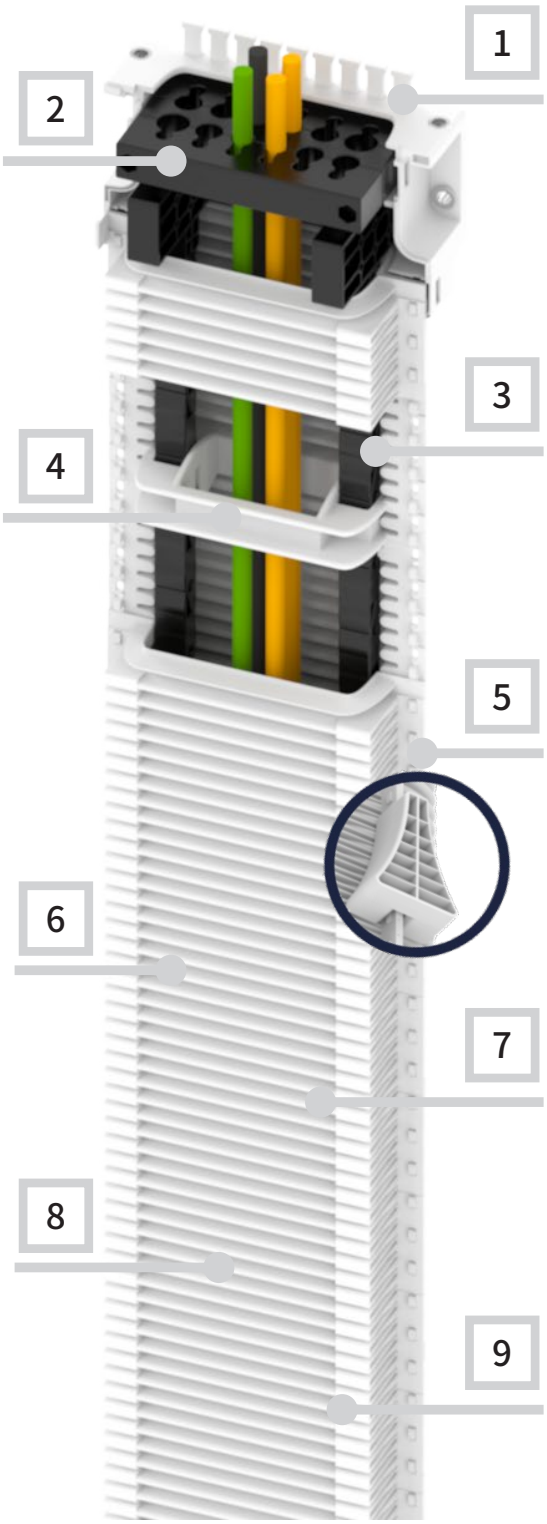


无尘拖链线缆 *Cleanroom cables*

PVC/PVC
TPE/TPEE

33-36

CW 系列 | 产品简介
CW series | Product introduction



CW 系列产品简介 *Introduction*

1 接头自带扎线板，便于安装布线
The mounting bracket has its own tiewrap plate, which is easy for cable arrangement.

2 可加装软胶压线块，方便固定和排布线缆
A rubber divider can be added to facilitate the fixing and routing of cables.

3 选配龙骨，增强负载及稳定性
Compatible with keels, enhancing load capacity and stability.

4 内部可加装隔片
Separators can be added inside.

5 拉链式打开 / 关闭，拆装便捷
Zipper openable / enclosed, easy to assemble and disassemble.

6 两片式结构，便于后续维护
Two-piece structure for easy subsequent and maintenance.

7 全封闭式：有效阻止灰尘和液体进入
Fully enclosed: Effective prevention of dust and liquid entry.

8 结构紧凑，更小的安装空间
Compact structure, requiring less installation space.

9 耦合式承载结构，更强的支撑力
Coupling structure, stronger bearing capacity.

认证 / 定制化 *Certificates/Customization*

所有产品均已申请发明专利
All products have applied for invention patents.

符合 IPA 百级无尘标准
Compliant with IPA standard.

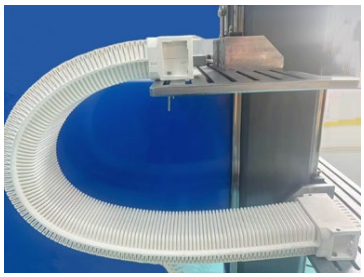
可根据需求提供防静电等定制化产品
Customized products are available such as ESD.

CW 系列 | 规格
CW series | Specification

系列 *Series*	内高 hi *Inner height [mm]*	内宽 Bi *Inner width [mm]*	外高 ha *Outer height [mm]*	外宽 Ba *Outer width [mm]*	适用行程 *Applicable stroke [m]*	适用行程（龙骨加强） *Applicable stroke (with keel) [m]*	页码 *Page*
CW 系列 | 拉链式 *CW series | Zipper-type*							
CW15.025	15	25	22	47	1.50	1.90	7-8
CW20.033	20	33	27	55	1.50	1.90	9-10
CW24.048	24	48	35	76	1.70	2.70	11-12
CW28.068	28	68	41.5	96	1.90	2.70-3.00	13-14
CW28.100	28	100	41.5	128	1.90	2.70-3.00	15-16
CW35.065	35	65	48.5	93	2.30	2.70-3.00	17-18
CW40.085	40	85	57	120	2.80	3.20-3.60	19-20
CW40.110	40	110	57	146	2.90	3.40-3.80	21-22

技术参数 *Technical data*

速度 *Speed*	⩽ 5 m/s
加速度 *Acceleration*	⩽ 30 m/s^2
允许温度 *Permitted temperature*	-10.0°C ~50.0°C
耐酸碱性 *PH value*	5.0-10.0
阻燃等级 *Flame retardant grade*	UL94 HB
疲劳测试 *Fatigue test*	⩾ 1000 万次 | ⩾ *10,000,000 times*
洁净室等级 *Cleanroom Class*	百级 *Hundred*



CW 系列的应用
Application of CW series.

CW 系列订购示例 *Ordering example*

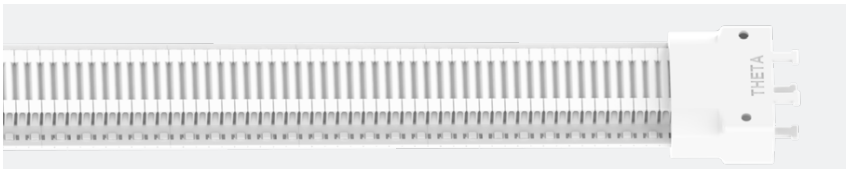
CW28.068 • W - L 800 + CW280.068.12 W

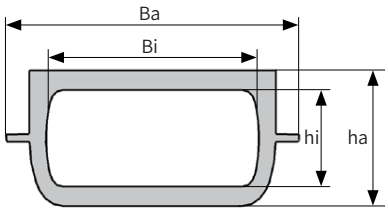
- 长度 *Length [mm]*
- W: 白色 *White*
- B: 黑色 *Black*
- E: 防静电 *ESD*
- V: 阻燃（V0 等级）*Flame retardant (V0 level)*
- 系列 *Series*

★ 如需其他配件，请参考详情页查看具体信息。
If other accessories are needed, please refer to the details page for specific information.

CW15.025 系列 | 拉链式

CW15.025 series | Zipper-type

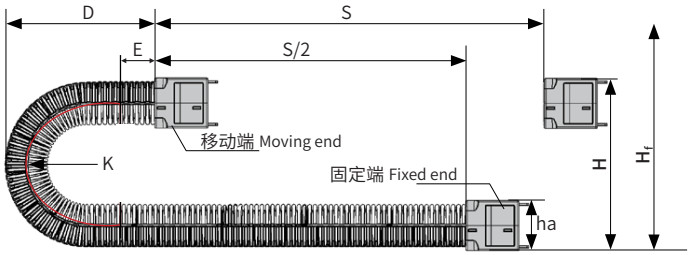




拖链系列 *Product series*	内高 hi *Inner height [mm]*	内宽 Bi *Inner width [mm]*	外高 ha *Outer height [mm]*	外宽 Ba *Outer width [mm]*	最大电缆外径 *Max cable diameter [mm]*	重量 *Weight [kg/m]*
CW15.025	15	25	22	47	10	≈ 0.16

架空应用 | L_K=S/2+K（行程中点安装）[1)]

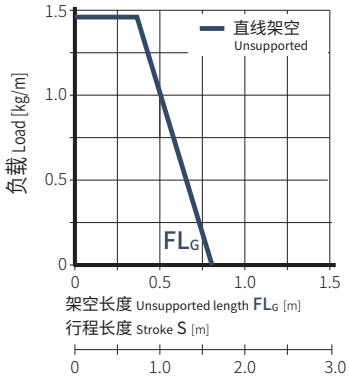
Unsupported application | L_K=S/2+K (Installed at the midpoint)



R [mm]	E [mm]	D [mm]	K [mm]	H [mm]	H_f [mm]
050[2)]	50	161	257	122	172
070[3)]	70	201	320	162	212
100	100	261	414	222	272

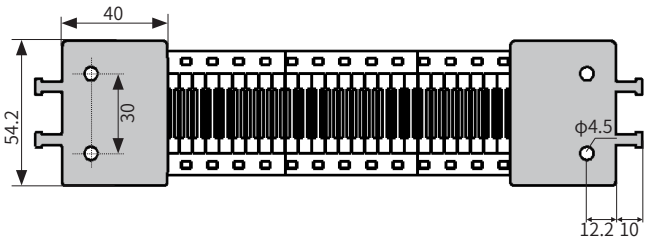
备注 *Note:*
1) 如固定端未在行程中点安装，拖链长度需加偏移量。
If the fixed end is not installed at the midpoint, the length needs to be increased by an offset.
2) 为理论最小弯曲半径 *Theoretical minimum bending radius.*
3) 为推荐弯曲半径 *Recommended bending radius.*
4) 实际弯曲半径数值与行程、负载有关。*The actual bending radius value is related to the stroke and load.*

架空・负载图 Unsupported & Load



R = 弯曲半径 *Bending radius*
E = 预留长度 *Reserved extra length*
D = 退回极限位置时的最小距离 *The minimum distance when retracting to the extreme position.*
K = 弯曲段长度 *Bending section length*
H = 理论安装高度 *Theoretical installation height*
H_f = 推荐安装高度 *Recommended installation height*

接头 *Mounting bracket*



- 接头固定建议用 M4（GB/T）螺丝。
  Recommended to use M4 (GB/T) screws for fixing.
- 拖链两端接头皆可作为移动端或固定端。
  Each mounting bracket can be used as the moving end or fixed end.



CW 主体订购示例 *Ordering example - Main body*

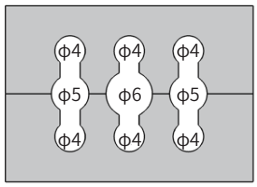
CW15.025 • W - L 800 + CW150.025.12 W

- 长度 *Length [mm]*
- W: 白色 *White*
- B: 黑色 *Black*
- E: 防静电 *ESD*
- V: 阻燃（V0 等级）*Flame retardant (V0 level)*
- 系列 *Series*

CW15 系列 | 选配附件
CW15 series | Optional accessories

软胶压线块 *Rubber divider*

可放线缆示意图
Cable placement schematic diagram

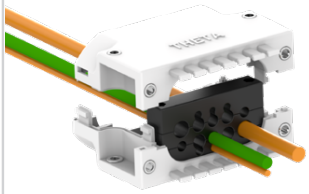


允许最多安装管线 *Max cables allowed*:
ϕ6×1+ϕ5×2+ϕ4×6

压线示意图
Cable pressing schematic diagram

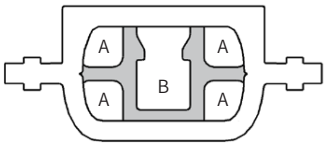


安装应用示意图
Schematic diagram



隔片 *Separator*

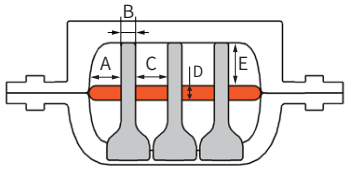
环形隔片
Round separator



型号 *Specification*	宽 × 高 *Width * height [mm*mm]*	
	A	B
CW15.025.1RS	6×6	8×12（可放龙骨）*Keel available*

- 建议每 200-300mm 放一组环形隔片。
- *Recommended to place a set every 200-300mm.*

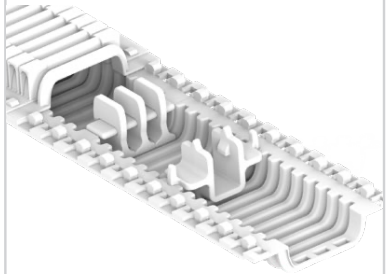
横、竖隔片
Horizontal & vertical separator



型号 *Specification*		尺寸值 *Dimensions [mm]*				
		A	B	C	D	E
横隔片	CSH.025	4.5	2	4.5	2	6.5
竖隔片	CW15.VS					

- 建议每 200-300mm 放一组隔片。
- *Recommended to place a set every 200-300mm.*

安装应用示意图
Schematic diagram



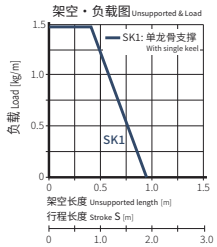
支撑加强 *Support and strengthen*

龙骨及龙骨接头
Keel & mounting bracket



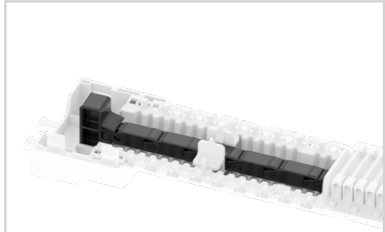
- 每条龙骨配一对龙骨接头。
- *Each keel is with one pair of mounting brackets.*

支撑加强负载图
Unsupported & load diagram



- 龙骨支撑需与环形隔片配合使用。
- *Keel support should be used together with round separator.*

安装应用示意图
Schematic diagram



CW 选配附件订购示例 *Ordering example - Optional accessories*

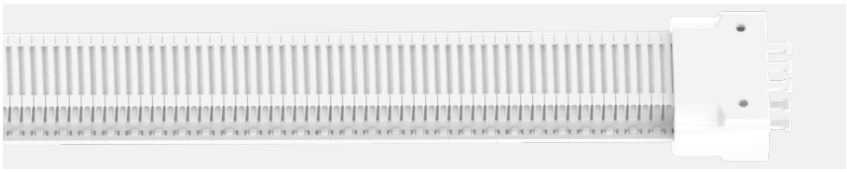
CW15.025.1RS - 20

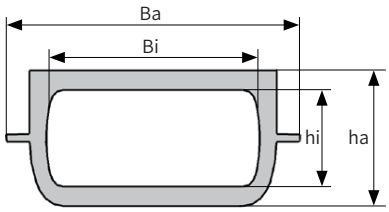
数量 *Number*

- 软胶压线块 *Rubber divider*: CW15.025.CS
- 环形隔片 *Round separator*: CW15.025.1RS (可配单龙骨用。*Compatible with single keel.*)
- 横隔片 *Horizontal separator*: CSH.025
- 竖隔片 *Vertical separator*: CW15.VS
- 龙骨 *Keel*: SK08.08.055 (节距为 18mm。*The pitch is 18mm.*)
- 龙骨接头 *Keel mounting brackets*: CW151.12

CW20.033 系列 | 拉链式

CW20.033 series | Zipper openable

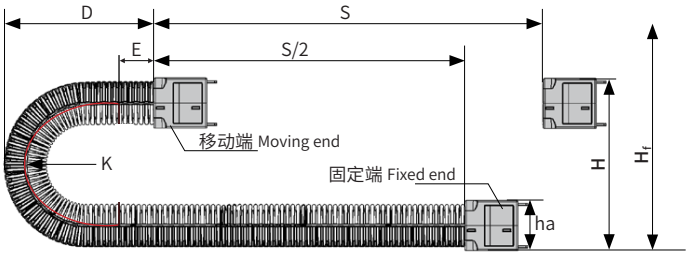




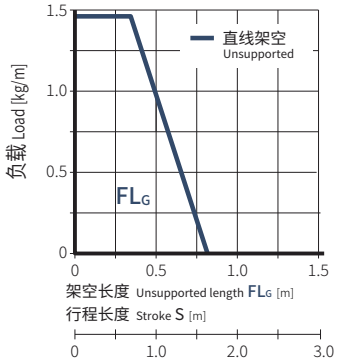
拖链系列 *Product series*	内高 hi *Inner height [mm]*	内宽 Bi *Inner width [mm]*	外高 ha *Outer height [mm]*	外宽 Ba *Outer width [mm]*	最大电缆外径 *Max cable diameter [mm]*	重量 *Weight [kg/m]*
CW20.033	20	33	27	55	13	≈ 0.24

架空应用 | L_K=S/2+K（行程中点安装）[1)]

Unsupported application | L_K=S/2+K (Installed at the midpoint)



架空・负载图 Unsupported & Load



R [mm]	E [mm]	D [mm]	K [mm]	H [mm]	H_f [mm]
050[2)]	50	164	257	127	177
070[3)]	70	204	320	167	217
100	100	264	414	227	277

R = 弯曲半径 *Bending radius*

E = 预留长度 *Reserved extra length*

D = 退回极限位置时的最小距离 *The minimum distance when retracting to the extreme position.*

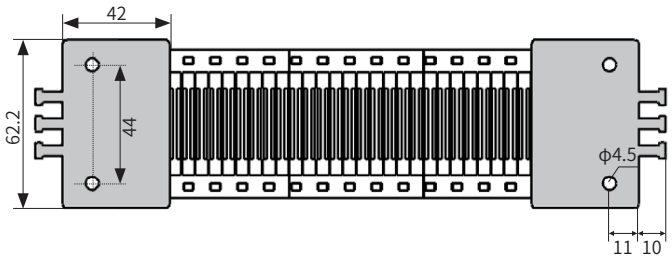
K = 弯曲段长度 *Bending section length*

H = 理论安装高度 *Theoretical installation height*

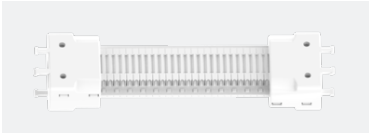
H_f = 推荐安装高度 *Recommended installation height*

备注 *Note:*
1) 如固定端未在行程中点安装，拖链长度需加偏移量。
If the fixed end is not installed at the midpoint, the length needs to be increased by an offset.
2) 为理论最小弯曲半径 *Theoretical minimum bending radius.*
3) 为推荐弯曲半径 *Recommended bending radius.*
4) 实际弯曲半径数值与行程、负载有关。*The actual bending radius value is related to the stroke and load.*

接头 *Mounting bracket*



- 接头固定建议用 M4（GB/T）螺丝。
  Recommended to use M4 (GB/T) screws for fixing.
- 拖链两端接头皆可作为移动端或固定端。
  Each mounting bracket can be used as the moving end or fixed end.



CW 主体订购示例 *Ordering example - Main body*

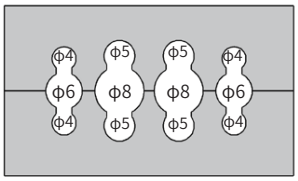
CW20.033 • W - L 800 + CW200.033.12 W

- 长度 *Length [mm]*
- W: 白色 *White*
- B: 黑色 *Black*
- E: 防静电 *ESD*
- V: 阻燃（V0 等级）*Flame retardant (V0 level)*
- 系列 *Series*

CW20 系列 | 选配附件
CW20 series | Optional accessories

软胶压线块 *Rubber divider*

可放线缆示意图
Cable placement schematic diagram

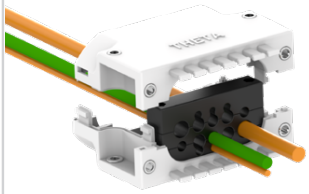


允许最多安装管线 *Max cables allowed*:
ϕ8×2+ϕ6×2+ϕ5×4+ϕ4×4

压线示意图
Cable pressing schematic diagram

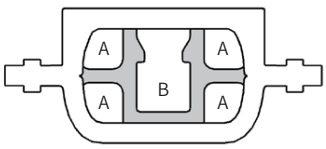


安装应用示意图
Schematic diagram



隔片 *Separator*

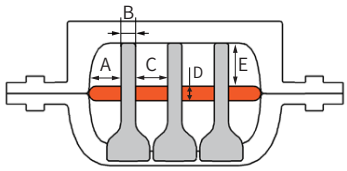
环形隔片
Round separator



型号 *Specification*	宽 × 高 *Width * height [mm*mm]*	
	A	B
CW20.033.1RS	10×8.5	8×17.5（可放龙骨）*Keel available*

・建议每 200-300mm 放一组环形隔片。
・*Recommended to place a set every 200-300mm.*

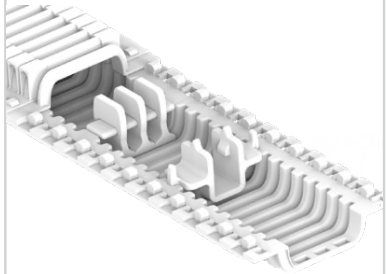
横、竖隔片
Horizontal & vertical separator



型号 *Specification*		尺寸值 *Dimensions [mm]*				
		A	B	C	D	E
横隔片	CSH.033	4.5	2	5	2	8.5
竖隔片	CW20.VS					

・建议每 200-300mm 放一组隔片。
・*Recommended to place a set every 200-300mm.*

安装应用示意图
Schematic diagram



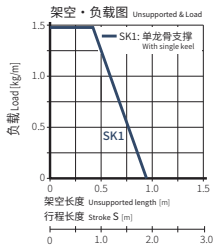
支撑加强 *Support and strengthen*

龙骨及龙骨接头
Keel & mounting bracket



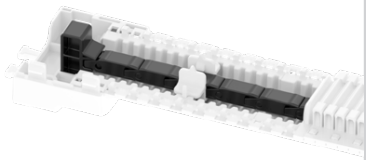
・每条龙骨配一对龙骨接头。
・*Each keel is with one pair of mounting brackets.*

支撑加强负载图
Unsupported & load diagram



・龙骨支撑需与环形隔片配合使用。
・*Keel support should be used together with round separator.*

安装应用示意图
Schematic diagram



CW 选配附件订购示例 *Ordering example - Optional accessories*

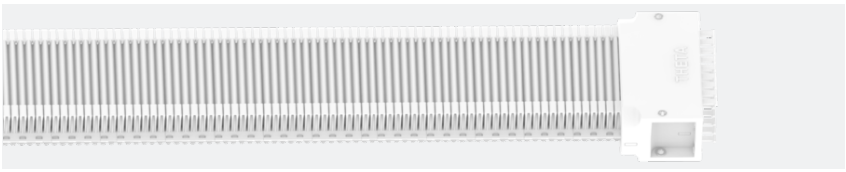
CW20.033.1RS - 20

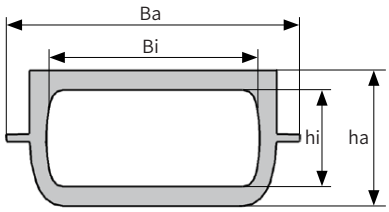
数量 *Number*

- 软胶压线块 *Rubber divider*: CW20.033.CS
- 环形隔片 *Round separator*: CW20.033.1RS (可配单龙骨用。*Compatible with single keel.*)
- 横隔片 *Horizontal separator*: CSH.033
- 竖隔片 *Vertical separator*: CW20.VS
- 龙骨 *Keel*: SK08.08.055 (节距为 18mm。*The pitch is 18mm.*)
- 龙骨接头 *Keel mounting brackets*: CW201.12

CW24.048 系列 | 拉链式

CW24.048 series | Zipper openable

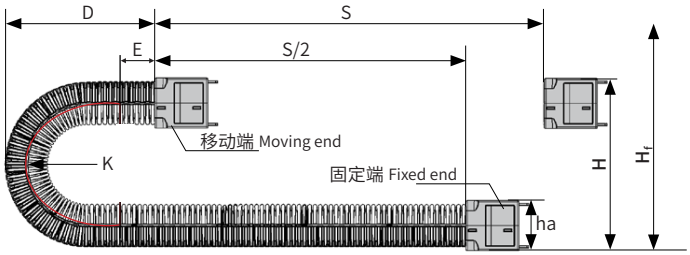




拖链系列 *Product series*	内高 hi *Inner height [mm]*	内宽 Bi *Inner width [mm]*	外高 ha *Outer height [mm]*	外宽 Ba *Outer width [mm]*	最大电缆外径 *Max cable diameter [mm]*	重量 *Weight [kg/m]*
CW24.048	24	48	35	76	16	≈ 0.35

架空应用 | L_K=S/2+K（行程中点安装）[1)]

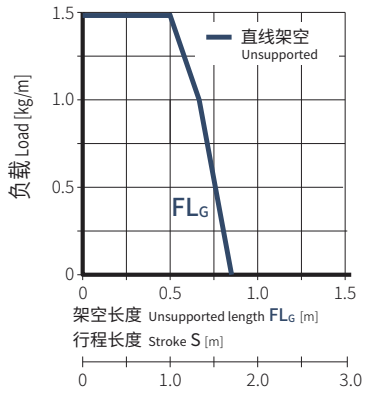
Unsupported application | L_K=S/2+K (Installed at the midpoint)



R [mm]	E [mm]	D [mm]	K [mm]	H [mm]	H_f [mm]
055[2)]	55	178	273	145	195
075[3)]	75	218	336	185	235
100	100	268	414	235	285

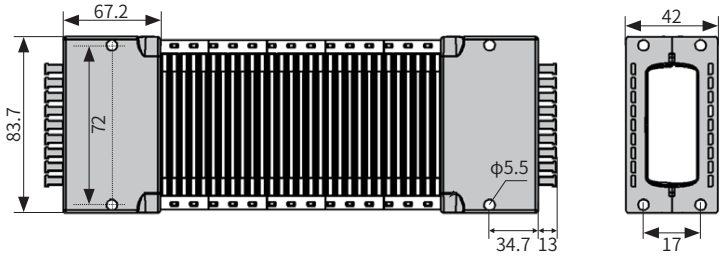
备注 *Note:*
1) 如固定端未在行程中点安装，拖链长度需加偏移量。
If the fixed end is not installed at the midpoint, the length needs to be increased by an offset.
2) 为理论最小弯曲半径 *Theoretical minimum bending radius.*
3) 为推荐弯曲半径 *Recommended bending radius.*
4) 实际弯曲半径数值与行程、负载有关。*The actual bending radius value is related to the stroke and load.*

架空・负载图 Unsupported & Load

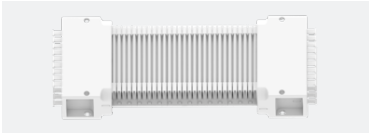


R = 弯曲半径 *Bending radius*
E = 预留长度 *Reserved extra length*
D = 退回极限位置时的最小距离 *The minimum distance when retracting to the extreme position.*
K = 弯曲段长度 *Bending section length*
H = 理论安装高度 *Theoretical installation height*
H_f = 推荐安装高度 *Recommended installation height*

接头 *Mounting bracket*



- 接头固定建议用 M5（GB/T）螺丝。
  Recommended to use M5 (GB/T) screws for fixing.
- 拖链两端接头皆可作为移动端或固定端。
  Each mounting bracket can be used as the moving end or fixed end.



CW 主体订购示例 *Ordering example - Main body*

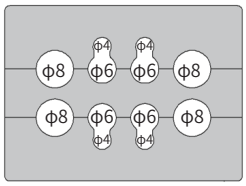
CW24.048 • W - L 800 + CW240.048.12 W

- 长度 *Length [mm]*
- W: 白色 *White*
- B: 黑色 *Black*
- E: 防静电 *ESD*
- V: 阻燃（V0 等级）*Flame retardant (V0 level)*
- 系列 *Series*

CW24 系列 | 选配附件
CW24 series | Optional accessories

软胶压线块 *Rubber divider*

可放线缆示意图
Cable placement schematic diagram

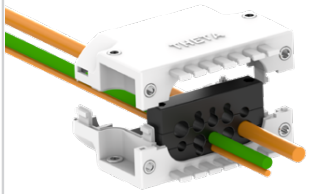


允许最多安装管线 *Max cables allowed*:
ϕ8×4+ϕ6×4+ϕ4×4

压线示意图
Cable pressing schematic diagram

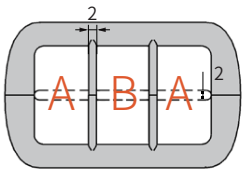


安装应用示意图
Schematic diagram



隔片 *Separator*

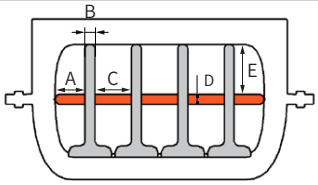
环形隔片
Round separator



型号 *Specification*	宽 × 高 *Width * height [mm*mm]*	
	A	B
CW24.048.RS	12.5×19	15×19
CW24.048.1RS	13.75×19	12×10[1)]

1) 为可放龙骨位置 *Where keels can be placed.*
- 建议每 200-300mm 放一组环形隔片。
- *Recommended to place a set every 200-300mm.*

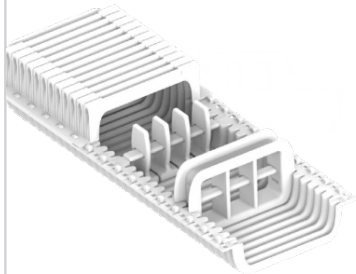
横、竖隔片
Horizontal & vertical separator



型号 *Specification*		尺寸值 *Dimensions [mm]*				
		A	B	C	D	E
横隔片	CSH.048	8	2	8	2	10.5
竖隔片	CW24.VS					

- 建议每 200-300mm 放一组隔片。
- *Recommended to place a set every 200-300mm.*

安装应用示意图
Schematic diagram



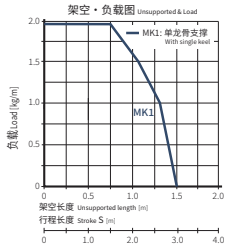
支撑加强 *Support and strengthen*

龙骨及龙骨接头
Keel & mounting bracket



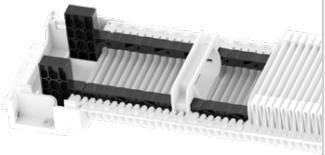
- 每条龙骨配一对龙骨接头。
- *Each keel is with one pair of mounting brackets.*

支撑加强负载图
Unsupported & load diagram



- 龙骨支撑需与环形隔片配合使用。
- *Keel support should be used together with round separator.*

安装应用示意图
Schematic diagram



CW 选配附件订购示例 *Ordering example - Optional accessories*

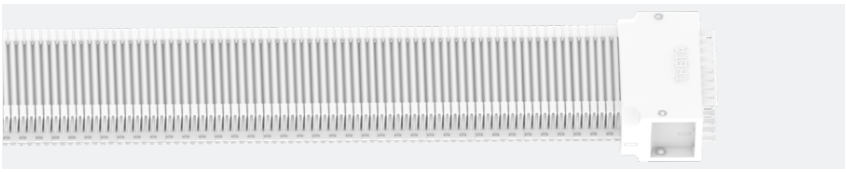
CW24.048.RS - 20

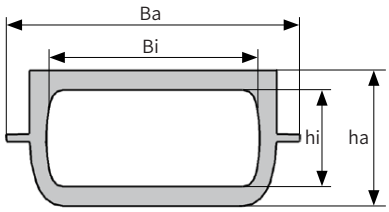
数量 *Number*

- 软胶压线块 *Rubber divider*: CW24.048.CS
- 环形隔片 *Round separator*: CW24.048.RS
  CW24.048.1RS (可配单龙骨用。*Compatible with single keel.*)
- 横隔片 *Horizontal separator*: CSH.048
- 竖隔片 *Vertical separator*: CW24.VS
- 龙骨 *Keel*: MK11.12.070 (节距为 28mm。*The pitch is 28mm.*)
- 龙骨接头 *Keel mounting brackets*: CW241.12

CW28.068 系列 | 拉链式

CW28.068 series | Zipper openable

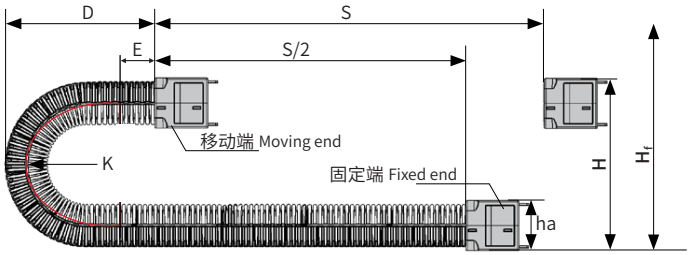




拖链系列 *Product series*	内高 hi *Inner height [mm]*	内宽 Bi *Inner width [mm]*	外高 ha *Outer height [mm]*	外宽 Ba *Outer width [mm]*	最大电缆外径 *Max cable diameter [mm]*	重量 *Weight [kg/m]*
CW28.068	28	68	41.5	96	20	≈ 0.60

架空应用 | L_K=S/2+K（行程中点安装）[1)]

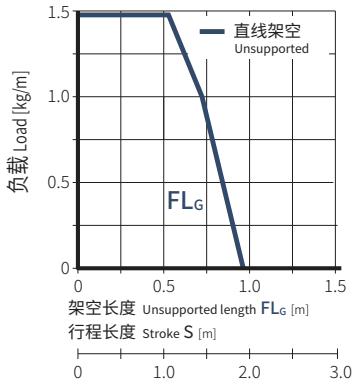
Unsupported application | L_K=S/2+K (Installed at the midpoint)



R [mm]	E [mm]	D [mm]	K [mm]	H [mm]	H_f [mm]
060[2)]	60	191	289	161.5	211.5
080[3)]	80	231	352	201.5	251.5
100	100	271	414	241.5	291.5

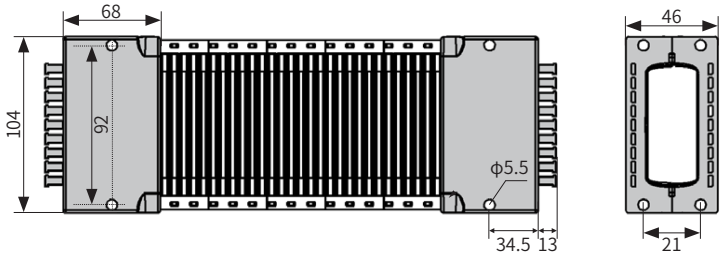
备注 *Note:*
1) 如固定端未在行程中点安装，拖链长度需加偏移量。
If the fixed end is not installed at the midpoint, the length needs to be increased by an offset.
2) 为理论最小弯曲半径 *Theoretical minimum bending radius.*
3) 为推荐弯曲半径 *Recommended bending radius.*
4) 实际弯曲半径数值与行程、负载有关。*The actual bending radius value is related to the stroke and load.*

架空・负载图 Unsupported & Load

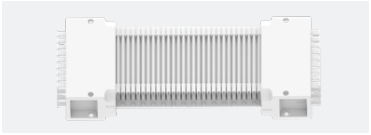


R = 弯曲半径 *Bending radius*
E = 预留长度 *Reserved extra length*
D = 退回极限位置时的最小距离 *The minimum distance when retracting to the extreme position.*
K = 弯曲段长度 *Bending section length*
H = 理论安装高度 *Theoretical installation height*
H_f = 推荐安装高度 *Recommended installation height*

接头 *Mounting bracket*



- 接头固定建议用 M5（GB/T）螺丝。
  Recommended to use M5 (GB/T) screws for fixing.
- 拖链两端接头皆可作为移动端或固定端。
  Each mounting bracket can be used as the moving end or fixed end.



CW 主体订购示例 *Ordering example - Main body*

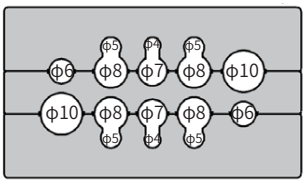
CW28.068 • W - L 800 + CW280.068.12 W

- 长度 *Length [mm]*
- W: 白色 *White*
- B: 黑色 *Black*
- E: 防静电 *ESD*
- V: 阻燃（V0 等级）*Flame retardant (V0 level)*
- 系列 *Series*

CW28 系列 | 选配附件
CW28 series | Optional accessories

软胶压线块 *Rubber divider*

可放线缆示意图
Cable placement schematic diagram

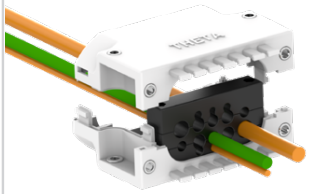


允许最多安装管线 *Max cables allowed:*
φ10×2+φ8×4+φ7×2+φ6×2+φ5×4+φ4×2

压线示意图
Cable pressing schematic diagram

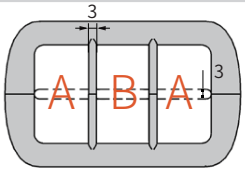


安装应用示意图
Schematic diagram



隔片 *Separator*

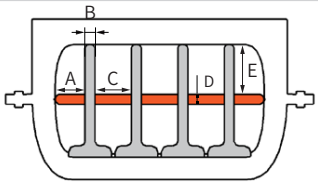
环形隔片
Round separator



型号 *Specification*	宽 × 高 *Width * height [mm*mm]*	
	A	B
CW28.068.RS	15.5×19.5	20×19.5
CW28.068.1RS	19.5×19.5	12×10[1)]
CW28.068.2RS	12×10[1)]	27×19.5

1) 为可放龙骨位置 *Where keels can be placed.*
- 建议每 200-300mm 放一组环形隔片。
- *Recommended to place a set every 200-300mm.*

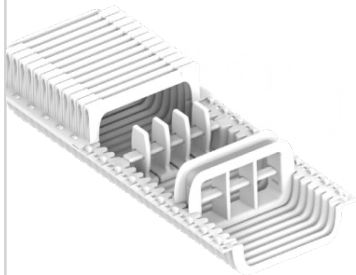
横、竖隔片
Horizontal & vertical separator



型号 *Specification*		尺寸值 *Dimensions [mm]*				
		A	B	C	D	E
横隔片	CMH.068	10	3	12	3	12
竖隔片	CW28.VS					

- 建议每 200-300mm 放一组隔片。
- *Recommended to place a set every 200-300mm.*

安装应用示意图
Schematic diagram



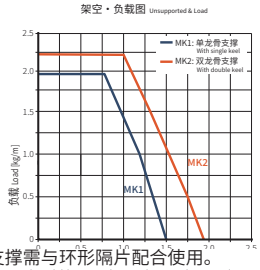
支撑加强 *Support and strengthen*

龙骨及龙骨接头
Keel & mounting bracket



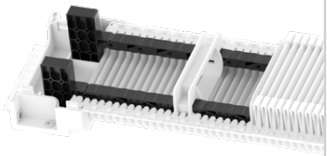
- 每条龙骨配一对龙骨接头。
- *Each keel is with one pair of mounting brackets.*

支撑加强负载图
Unsupported & load diagram



- 龙骨支撑需与环形隔片配合使用。
- *Keel support should be used together with round separator.*

安装应用示意图
Schematic diagram



CW 选配附件订购示例 *Ordering example - Optional accessories*

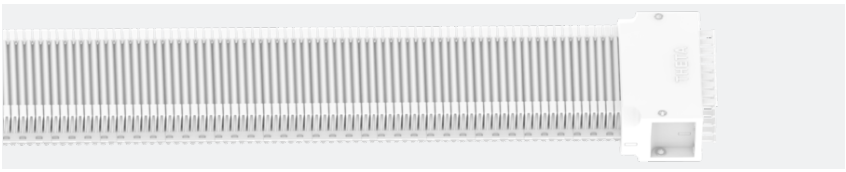
CW28.068.RS - 20

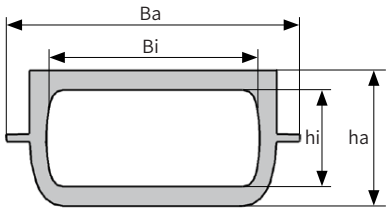
数量 *Number*

- 软胶压线块 *Rubber divider*: CW28.068.CS
- 环形隔片 *Round separator*: CW28.068.RS
  CW28.068.1RS (可配单龙骨用。*Compatible with single keel.*)
  CW28.068.2RS (可配双龙骨用。*Compatible with double keels.*)
- 横隔片 *Horizontal separator*: CMH.068
- 竖隔片 *Vertical separator*: CW28.VS
- 龙骨 *Keel*: MK11.12.070 (节距为 28mm。*The pitch is 28mm.*)
- 龙骨接头 *Keel mounting brackets*: CW281.12

CW28.100 系列 | 拉链式

CW28.100 series | Zipper openable

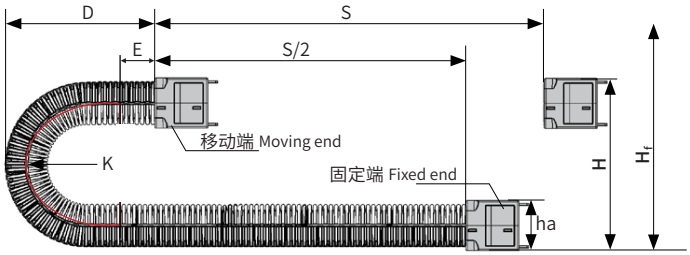




拖链系列 *Product series*	内高 hi *Inner height [mm]*	内宽 Bi *Inner width [mm]*	外高 ha *Outer height [mm]*	外宽 Ba *Outer width [mm]*	最大电缆外径 *Max cable diameter [mm]*	重量 *Weight [kg/m]*
CW28.100	28	100	41.5	96	20	≈ 0.60

架空应用 | L_K=S/2+K（行程中点安装）[1)]

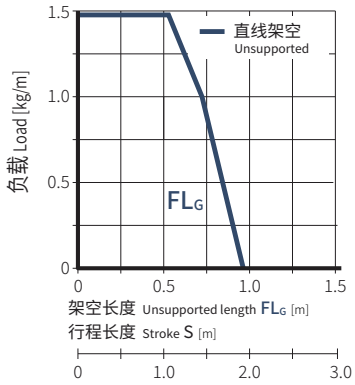
Unsupported application | L_K=S/2+K (Installed at the midpoint)



R [mm]	E [mm]	D [mm]	K [mm]	H [mm]	H_f [mm]
060[2)]	60	191	289	161.5	211.5
080[3)]	80	231	352	201.5	251.5
100	100	271	414	241.5	291.5

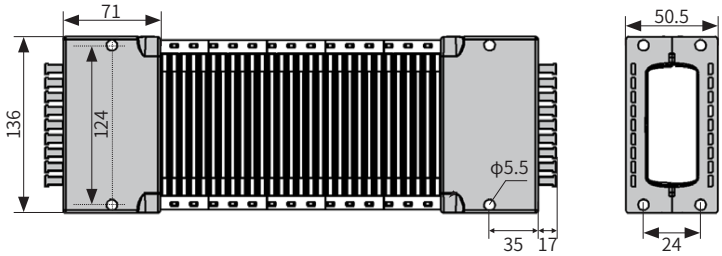
备注 *Note:*
1) 如固定端未在行程中点安装，拖链长度需加偏移量。
If the fixed end is not installed at the midpoint, the length needs to be increased by an offset.
2) 为理论最小弯曲半径 *Theoretical minimum bending radius.*
3) 为推荐弯曲半径 *Recommended bending radius.*
4) 实际弯曲半径数值与行程、负载有关。*The actual bending radius value is related to the stroke and load.*

架空・负载图 Unsupported & Load

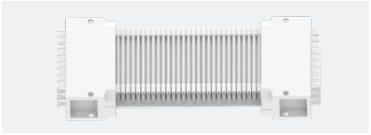


R = 弯曲半径 *Bending radius*
E = 预留长度 *Reserved extra length*
D = 退回极限位置时的最小距离 *The minimum distance when retracting to the extreme position.*
K = 弯曲段长度 *Bending section length*
H = 理论安装高度 *Theoretical installation height*
H_f = 推荐安装高度 *Recommended installation height*

接头 *Mounting bracket*



- 接头固定建议用 M5（GB/T）螺丝。
  Recommended to use M5 (GB/T) screws for fixing.
- 拖链两端接头皆可作为移动端或固定端。
  Each mounting bracket can be used as the moving end or fixed end.



CW 主体订购示例 *Ordering example - Main body*

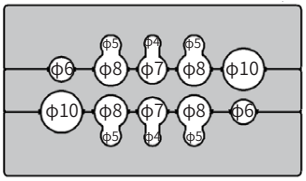
CW28.100 • W - L 800 + CW280.100.12 W

- 长度 *Length [mm]*
- W: 白色 *White*
- B: 黑色 *Black*
- E: 防静电 *ESD*
- V: 阻燃（V0 等级）*Flame retardant (V0 level)*
- 系列 *Series*

CW28 系列 | 选配附件
CW28 series | Optional accessories

软胶压线块 *Rubber divider*

可放线缆示意图
Cable placement schematic diagram

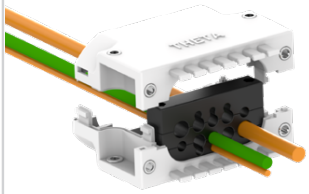


允许最多安装管线 *Max cables allowed:*
ϕ10×2+ϕ8×4+ϕ7×2+ϕ6×2+ϕ5×4+ϕ4×2

压线示意图
Cable pressing schematic diagram

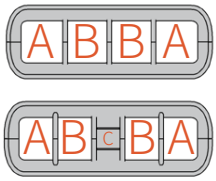


安装应用示意图
Schematic diagram



隔片 *Separator*

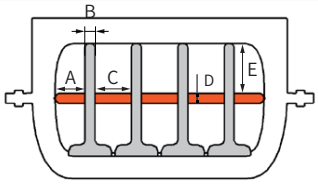
环形隔片
Round separator



型号 *Specification*	宽 × 高 *Width * height [mm*mm]*		
	A	B	C
CW28.100.RS	22×22	21×22	/
CW28.100.1RS	17.8×22	17.8×22	12×10[1)]
CW28.100.2RS	12×10[1)]	27.5×23.5	/

1) 为可放龙骨位置 *Where keels can be placed.*
- 建议每 200-300mm 放一组环形隔片。
- *Recommended to place a set every 200-300mm.*

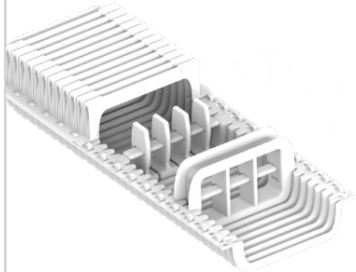
横、竖隔片
Horizontal & vertical separator



型号 *Specification*		尺寸值 *Dimensions [mm]*				
		A	B	C	D	E
横隔片	CMH.100	12.5	3	12	3	12.5
竖隔片	CW28.VS					

- 建议每 200-300mm 放一组隔片。
- *Recommended to place a set every 200-300mm.*

安装应用示意图
Schematic diagram



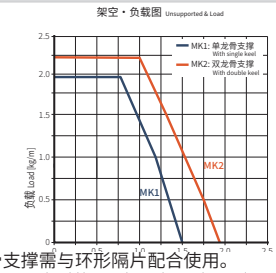
支撑加强 *Support and strengthen*

龙骨及龙骨接头
Keel & mounting bracket



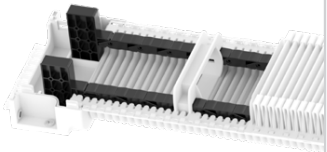
- 每条龙骨配一对龙骨接头。
- *Each keel is with one pair of mounting brackets.*

支撑加强负载图
Unsupported & load diagram



- 龙骨支撑需与环形隔片配合使用。
- *Keel support should be used together with round separator.*

安装应用示意图
Schematic diagram



CW 选配附件订购示例 *Ordering example - Optional accessories*

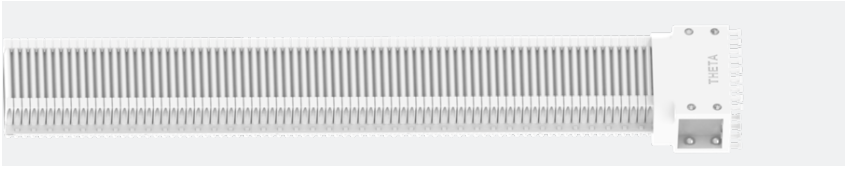
CW28.100.RS - 20

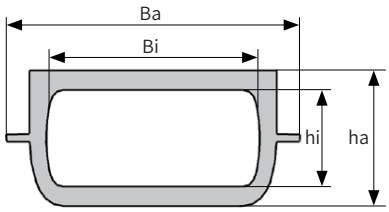
数量 *Number*

- 软胶压线块 *Rubber divider*: CW28.100.CS
- 环形隔片 *Round separator*: CW28.100.RS
  CW28.100.1RS (可配单龙骨用。*Compatible with single keel.*)
  CW28.100.2RS (可配双龙骨用。*Compatible with double keels.*)
- 横隔片 *Horizontal separator*: CMH.100
- 竖隔片 *Vertical separator*: CW28.VS
- 龙骨 *Keel*: MK11.12.070 (节距为 28mm。*The pitch is 28mm.*)
- 龙骨接头 *Keel mounting brackets*: CW281.12

CW35.065 系列 | 拉链式

CW35.065 series | Zipper openable

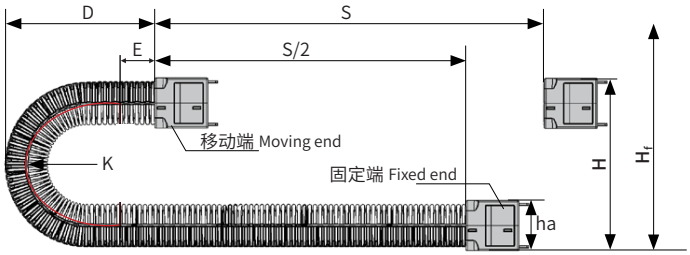




拖链系列 *Product series*	内高 hi *Inner height [mm]*	内宽 Bi *Inner width [mm]*	外高 ha *Outer height [mm]*	外宽 Ba *Outer width [mm]*	最大电缆外径 *Max cable diameter [mm]*	重量 *Weight [kg/m]*
CW35.065	35	065	48.5	93	25	≈ 1.05

架空应用 | L_K=S/2+K（行程中点安装）[1)]

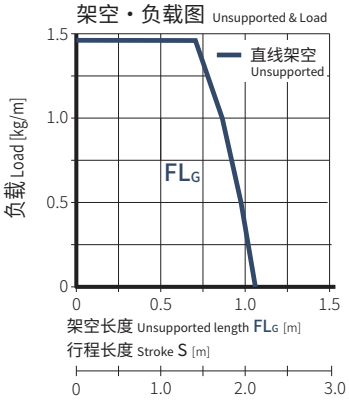
Unsupported application | L_K=S/2+K (Installed at the midpoint)



R [mm]	E [mm]	D [mm]	K [mm]	H [mm]	H_f [mm]
070[2)]	70	215	320	188.5	238.5
090[3)]	90	255	383	228.5	278.5
100	100	275	414	248.5	298.5

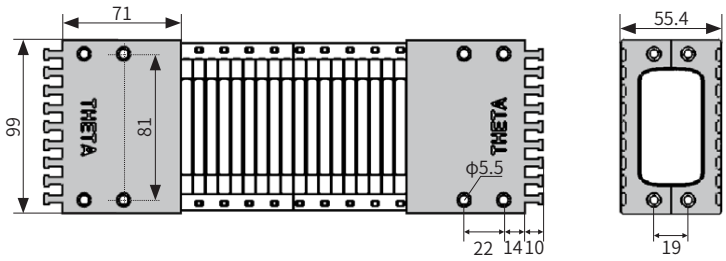
备注 *Note:*
1) 如固定端未在行程中点安装，拖链长度需加偏移量。
If the fixed end is not installed at the midpoint, the length needs to be increased by an offset.
2) 为理论最小弯曲半径 *Theoretical minimum bending radius.*
3) 为推荐弯曲半径 *Recommended bending radius.*
4) 实际弯曲半径数值与行程、负载有关。*The actual bending radius value is related to the stroke and load.*

架空・负载图 Unsupported & Load

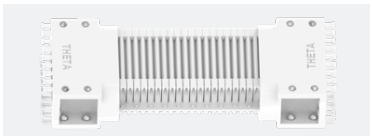


R = 弯曲半径 *Bending radius*
E = 预留长度 *Reserved extra length*
D = 退回极限位置时的最小距离 *The minimum distance when retracting to the extreme position.*
K = 弯曲段长度 *Bending section length*
H = 理论安装高度 *Theoretical installation height*
H_f = 推荐安装高度 *Recommended installation height*

接头 *Mounting bracket*



- 接头固定建议用 M5（GB/T）螺丝。
  Recommended to use M5 (GB/T) screws for fixing.
- 拖链两端接头皆可作为移动端或固定端。
  Each mounting bracket can be used as the moving end or fixed end.



CW 主体订购示例 *Ordering example - Main body*

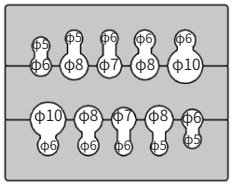
CW35.065 • W - L 800 + CW350.065.12 W

- 长度 *Length [mm]*
- W: 白色 *White*
- B: 黑色 *Black*
- E: 防静电 *ESD*
- V: 阻燃（V0 等级）*Flame retardant (V0 level)*
- 系列 *Series*

CW35 系列 | 选配附件
CW35 series | Optional accessories

软胶压线块 *Rubber divider*

可放线缆示意图
Cable placement schematic diagram

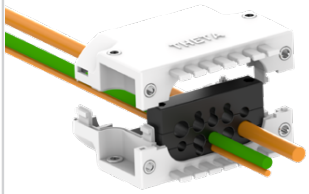


允许最多安装管线 *Max cables allowed*:
φ10×2+φ8×4+φ7×2+φ6×8+φ5×4

压线示意图
Cable pressing schematic diagram

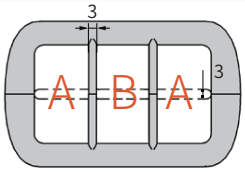


安装应用示意图
Schematic diagram



隔片 *Separator*

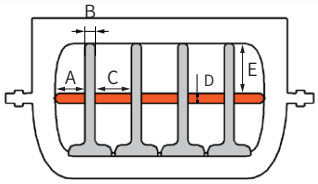
环形隔片
Round separator



型号 *Specification*	宽 × 高 *Width * height [mm*mm]*	
	A	B
CW35.065.RS	17×30.8	16.5×30.8
CW35.065.1RS	19×30.8	12×10[1)]
CW35.065.2RS	12×10[1)]	30×30.8

1) 为可放龙骨位置 *Where keels can be placed.*
- 建议每 200-300mm 放一组环形隔片。
- *Recommended to place a set every 200-300mm.*

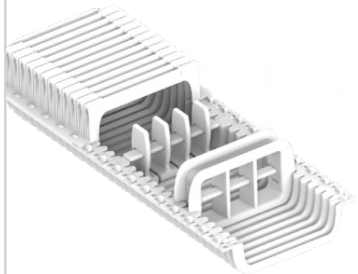
横、竖隔片
Horizontal & vertical separator



型号 *Specification*		尺寸值 *Dimensions [mm]*				
		A	B	C	D	E
横隔片	CMH.065	9	3	11	3	15
竖隔片	CW35.VS					

- 建议每 200-300mm 放一组隔片。
- *Recommended to place a set every 200-300mm.*

安装应用示意图
Schematic diagram



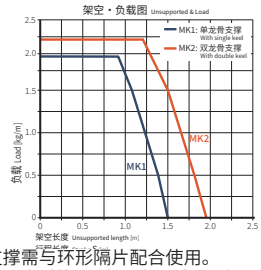
支撑加强 *Support and strengthen*

龙骨及龙骨接头
Keel & mounting bracket



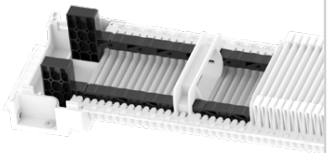
- 每条龙骨配一对龙骨接头。
- *Each keel is with one pair of mounting brackets.*

支撑加强负载图
Unsupported & load diagram



- 龙骨支撑需与环形隔片配合使用。
- *Keel support should be used together with round separator.*

安装应用示意图
Schematic diagram



CW 选配附件订购示例 *Ordering example - Optional accessories*

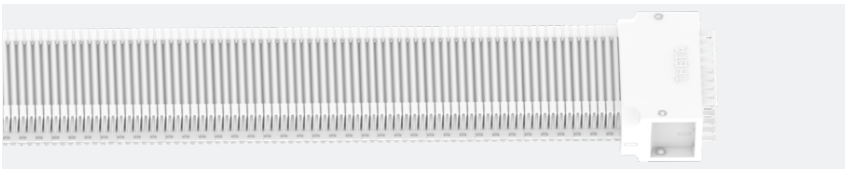
CW35.065.RS - 20

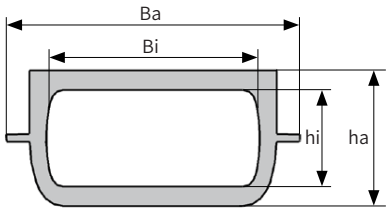
数量 *Number*

- 软胶压线块 *Rubber divider*: CW35.065.CS
- 环形隔片 *Round separator*: CW35.065.RS
  CW35.065.1RS (可配单龙骨用。*Compatible with single keels.*)
  CW35.065.2RS (可配双龙骨用。*Compatible with double keels.*)
- 横隔片 *Horizontal separator*: CMH.065
- 竖隔片 *Vertical separator*: CW35.VS
- 龙骨 *Keel*: MK11.12.110 (节距为 28mm。*The pitch is 28mm.*)
- 龙骨接头 *Keel mounting brackets*: CW351.12

CW40.085 系列 | 拉链式

CW40.085 series | Zipper openable

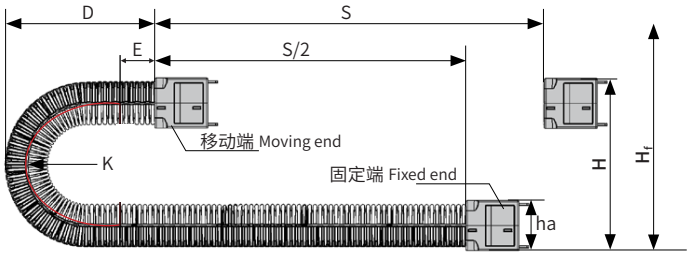




拖链系列 *Product series*	内高 hi *Inner height [mm]*	内宽 Bi *Inner width [mm]*	外高 ha *Outer height [mm]*	外宽 Ba *Outer width [mm]*	最大电缆外径 *Max cable diameter [mm]*	重量 *Weight [kg/m]*
CW40.085	40	085	57	120	30	≈ 1.22

架空应用 | L_K=S/2+K（行程中点安装）[1)]

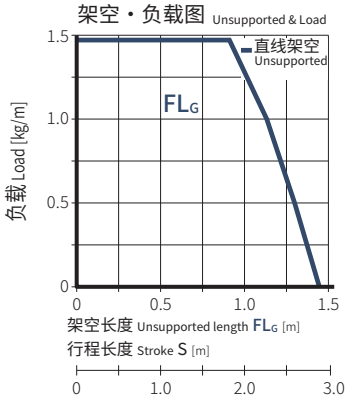
Unsupported application | L_K=S/2+K (Installed at the midpoint)



R [mm]	E [mm]	D [mm]	K [mm]	H [mm]	H_f [mm]
100[2)]	100	279	414	257	307
130[3)]	130	339	509	317	367
160	160	399	603	377	427

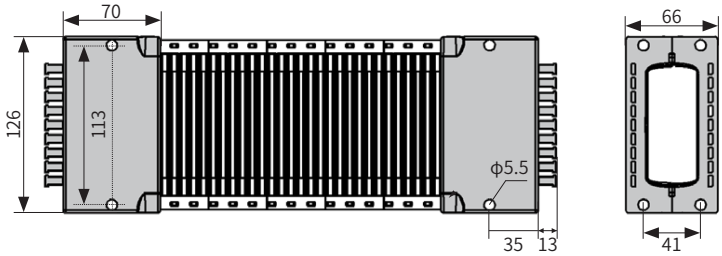
备注 *Note:*
1) 如固定端未在行程中点安装，拖链长度需加偏移量。
If the fixed end is not installed at the midpoint, the length needs to be increased by an offset.
2) 为理论最小弯曲半径 *Theoretical minimum bending radius.*
3) 为推荐弯曲半径 *Recommended bending radius.*
4) 实际弯曲半径数值与行程、负载有关。*The actual bending radius value is related to the stroke and load.*

架空・负载图 Unsupported & Load

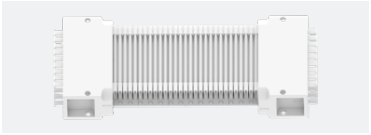


R = 弯曲半径 *Bending radius*
E = 预留长度 *Reserved extra length*
D = 退回极限位置时的最小距离 *The minimum distance when retracting to the extreme position.*
K = 弯曲段长度 *Bending section length*
H = 理论安装高度 *Theoretical installation height*
H_f = 推荐安装高度 *Recommended installation height*

接头 *Mounting bracket*



- 接头固定建议用 M5（GB/T）螺丝。
  Recommended to use M5 (GB/T) screws for fixing.
- 拖链两端接头皆可作为移动端或固定端。
  Each mounting bracket can be used as the moving end or fixed end.



CW 主体订购示例 *Ordering example - Main body*

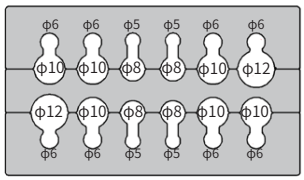
CW40.085 • W - L 800 + CW400.085.12 W

- 长度 *Length [mm]*
- W: 白色 *White*
- B: 黑色 *Black*
- E: 防静电 *ESD*
- V: 阻燃（V0 等级）*Flame retardant (V0 level)*
- 系列 *Series*

CW40 系列 | 选配附件
CW40 series | Optional accessories

软胶压线块 *Rubber divider*

可放线缆示意图
Cable placement schematic diagram

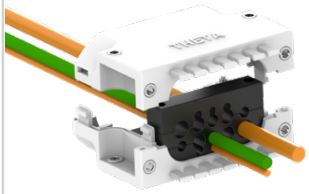


允许最多安装管线 *Max cables allowed*:
ϕ12×2+ϕ10×6+ϕ8×4+ϕ6×8+ϕ5×4

压线示意图
Cable pressing schematic diagram

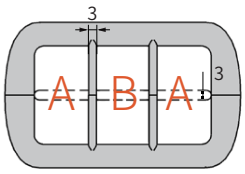


安装应用示意图
Schematic diagram



隔片 *Separator*

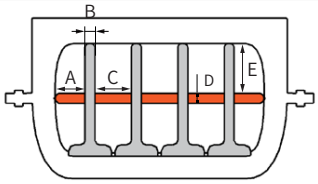
环形隔片
Round separator



型号 *Specification*	宽 × 高 *Width * height [mm*mm]*	
	A	B
CW40.085.RS	16×33.5	45.5×33.5
CW40.085.1RS	32×33.5	12×10[1)]
CW40.085.2RS	12×10[1)]	52×33.5

1) 为可放龙骨位置 *Where keels can be placed.*
- 建议每 200-300mm 放一组环形隔片。
- *Recommended to place a set every 200-300mm.*

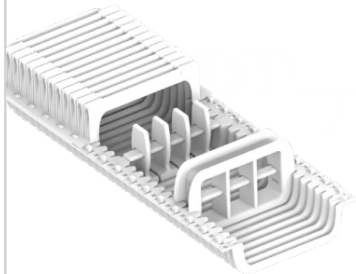
横、竖隔片
Horizontal & vertical separator



型号 *Specification*		尺寸值 *Dimensions [mm]*				
		A	B	C	D	E
横隔片	CMH.085	13	3	15	3	16
竖隔片	CW40.VS					

- 建议每 200-300mm 放一组隔片。
- *Recommended to place a set every 200-300mm.*

安装应用示意图
Schematic diagram



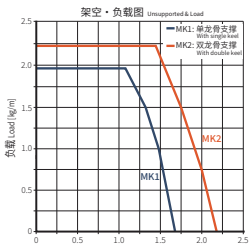
支撑加强 *Support and strengthen*

龙骨及龙骨接头
Keel & mounting bracket



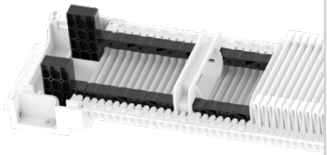
- 每条龙骨配一对龙骨接头。
- *Each keel is with one pair of mounting brackets.*

支撑加强负载图
Unsupported & load diagram



- 龙骨支撑需与环形隔片配合使用。
- *Keel support should be used together with round separator.*

安装应用示意图
Schematic diagram



CW 选配附件订购示例 *Ordering example - Optional accessories*

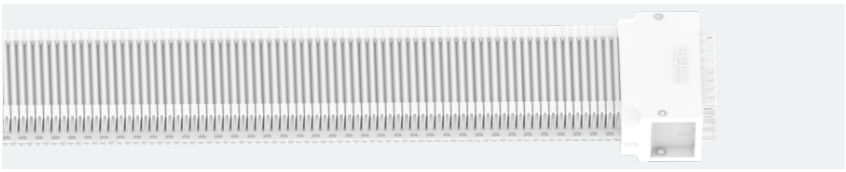
CW40.085.RS - 20

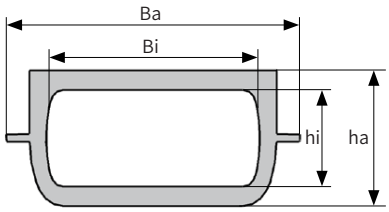
数量 *Number*

- 软胶压线块 *Rubber divider*: CW40.085.CS
- 环形隔片 *Round separator*: CW40.085.RS
  CW40.085.1RS (可配单龙骨用。*Compatible with single keels.*)
  CW40.085.2RS (可配双龙骨用。*Compatible with double keels.*)
- 横隔片 *Horizontal separator*: CMH.085
- 竖隔片 *Vertical separator*: CW40.VS
- 龙骨 *Keel*: MK11.12.130 (节距为 28mm。*The pitch is 28mm.*)
- 龙骨接头 *Keel mounting brackets*: CW401.12

CW40.110 系列 | 拉链式

CW40.110 series | Zipper openable

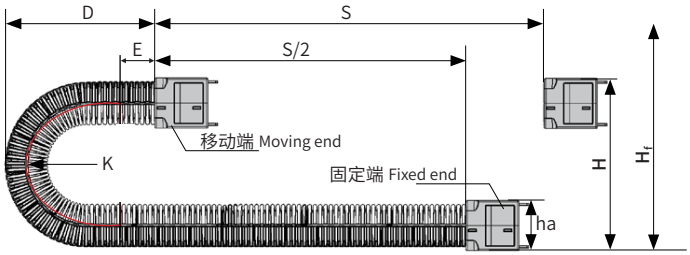




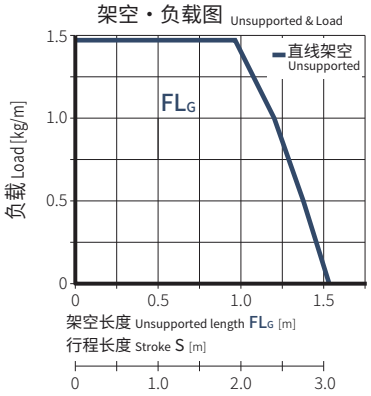
拖链系列 *Product series*	内高 hi *Inner height [mm]*	内宽 Bi *Inner width [mm]*	外高 ha *Outer height [mm]*	外宽 Ba *Outer width [mm]*	最大电缆外径 *Max cable diameter [mm]*	重量 *Weight [kg/m]*
CW40.110	40	110	57	146	30	≈ 1.22

架空应用 | L_K=S/2+K（行程中点安装）[1)]

Unsupported application | L_K=S/2+K (Installed at the midpoint)



架空・负载图 Unsupported & Load



R [mm]	E [mm]	D [mm]	K [mm]	H [mm]	H_f [mm]
100[2)]	100	279	414	257	307
130[3)]	130	339	509	317	367
160	160	399	603	377	427

R = 弯曲半径 *Bending radius*

E = 预留长度 *Reserved extra length*

D = 退回极限位置时的最小距离 *The minimum distance when retracting to the extreme position.*

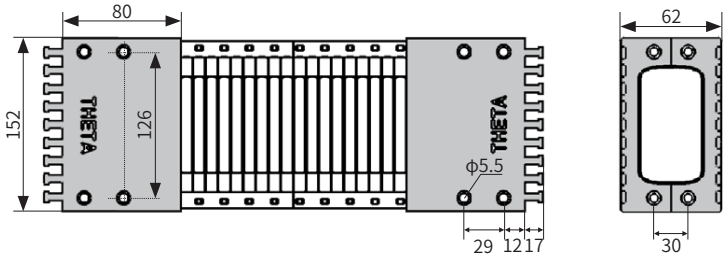
K = 弯曲段长度 *Bending section length*

H = 理论安装高度 *Theoretical installation height*

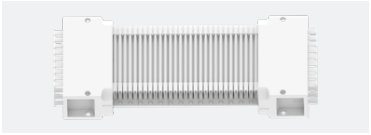
H_f = 推荐安装高度 *Recommended installation height*

备注 *Note:*
1) 如固定端未在行程中点安装，拖链长度需加偏移量。
If the fixed end is not installed at the midpoint, the length needs to be increased by an offset.
2) 为理论最小弯曲半径 *Theoretical minimum bending radius.*
3) 为推荐弯曲半径 *Recommended bending radius.*
4) 实际弯曲半径数值与行程、负载有关。*The actual bending radius value is related to the stroke and load.*

接头 *Mounting bracket*



- 接头固定建议用 M5（GB/T）螺丝。
  Recommended to use M5 (GB/T) screws for fixing.
- 拖链两端接头皆可作为移动端或固定端。
  Each mounting bracket can be used as the moving end or fixed end.



CW 主体订购示例 *Ordering example - Main body*

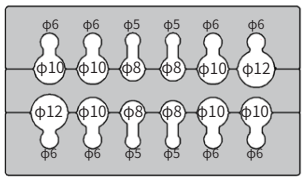
CW40.110 • W - L 800 + CW400.110.12 W

- 长度 *Length [mm]*
- W: 白色 *White*
- B: 黑色 *Black*
- E: 防静电 *ESD*
- V: 阻燃（V0 等级）*Flame retardant (V0 level)*
- 系列 *Series*

CW40 系列 | 选配附件
CW40 series | Optional accessories

软胶压线块 *Rubber divider*

可放线缆示意图
Cable placement schematic diagram

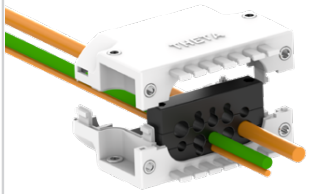


允许最多安装管线 *Max cables allowed*:
Φ12×2+Φ10×6+Φ8×4+Φ6×8+Φ5×4

压线示意图
Cable pressing schematic diagram

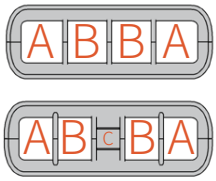


安装应用示意图
Schematic diagram



隔片 *Separator*

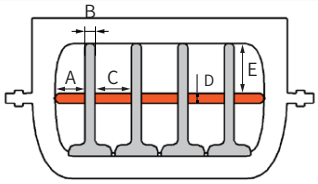
环形隔片
Round separator



型号 *Specification*	宽 × 高 *Width * height [mm*mm]*		
	A	B	C
CW40.110.RS	24×34.4	23×34.4	/
CW40.110.1RS	20.3×34.4	20×34.4	12×10[1)]
CW40.110.2RS	12×10[1)]	33.5×33.4	/

1) 为可放龙骨位置 *Where keels can be placed.*
- 建议每 200-300mm 放一组环形隔片。
- *Recommended to place a set every 200-300mm.*

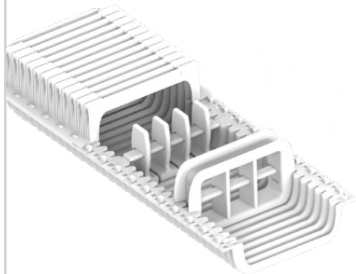
横、竖隔片
Horizontal & vertical separator



型号 *Specification*		尺寸值 *Dimensions [mm]*				
		A	B	C	D	E
横隔片	CMH.110	17	3	16	3	18.5
竖隔片	CW40.VS					

- 建议每 200-300mm 放一组隔片。
- *Recommended to place a set every 200-300mm.*

安装应用示意图
Schematic diagram



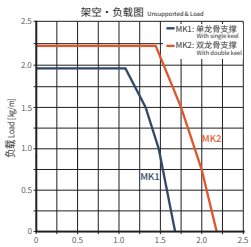
支撑加强 *Support and strengthen*

龙骨及龙骨接头
Keel & mounting bracket



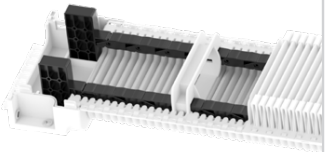
- 每条龙骨配一对龙骨接头。
- *Each keel is with one pair of mounting brackets.*

支撑加强负载图
Unsupported & load diagram



- 龙骨支撑需与环形隔片配合使用。
- *Keel support should be used together with round separator.*

安装应用示意图
Schematic diagram



CW 选配附件订购示例 *Ordering example - Optional accessories*

CW40.110.RS - 20

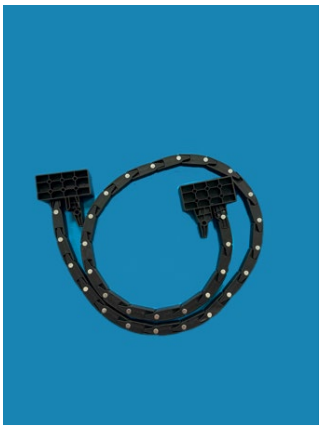
数量 *Number*

- 软胶压线块 *Rubber divider*: CW40.110.CS
- 环形隔片 *Round separator*: CW40.110.RS
  CW40.110.1RS (可配单龙骨用。*Compatible with single keels.*)
  CW40.110.2RS (可配双龙骨用。*Compatible with double keels.*)
- 横隔片 *Horizontal separator*: CMH.110
- 竖隔片 *Vertical separator*: CW40.VS
- 龙骨 *Keel*: MK11.12.130 (节距为 28mm。*The pitch is 28mm.*)
- 龙骨接头 *Keel mounting brackets*: CW401.12

CW 系列 | 拆装

CW series | Assemble & disassemble

龙骨安装 *Keel*：



1. 组装龙骨和龙骨接头；
Assemble the keel and keel mountiing bracket..



2. 龙骨穿过环形隔片；
The keel passes through the round separator.



3. 龙骨及环形隔片放入主体；
The keel and round separator pass through the main body.

主体安装 *Main body*：



1. 手工捏合侧边前端安装孔；
Hand-pinch the front mounting holes on one side.

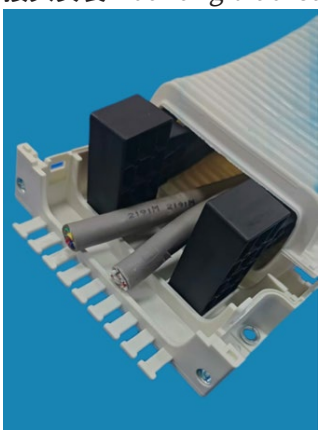


2. 用 CW 专用工具封合侧边；
Seal the side edge in a zipper style with the CW special installation tool.



3. 侧边封装完成；
The side encapsulation is completed.

接头安装 *Mounting bracket*：



1. 将拖链主体、龙骨、隔片放入接头凹槽内；
Place the main body, keel, separator into the groove of the mounting bracket.

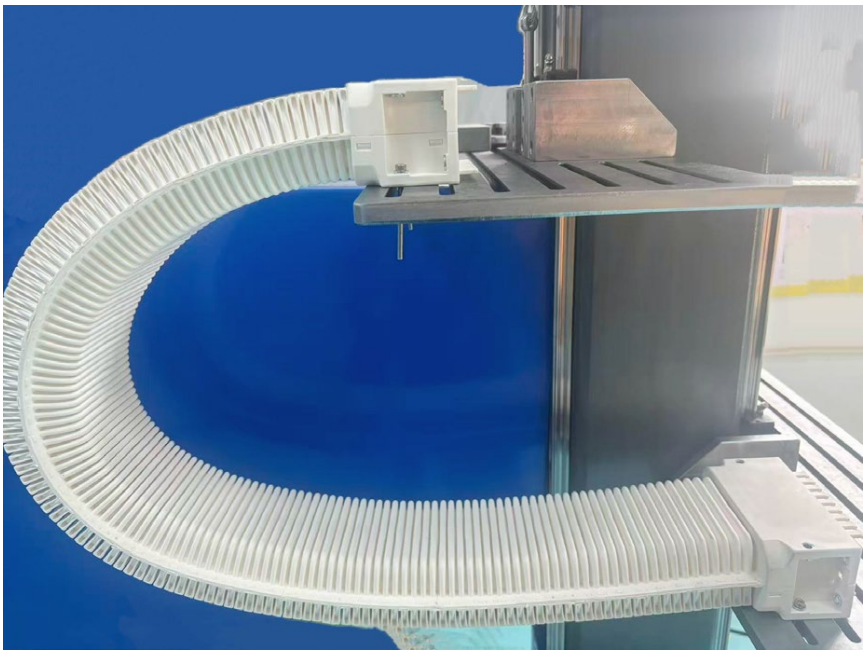


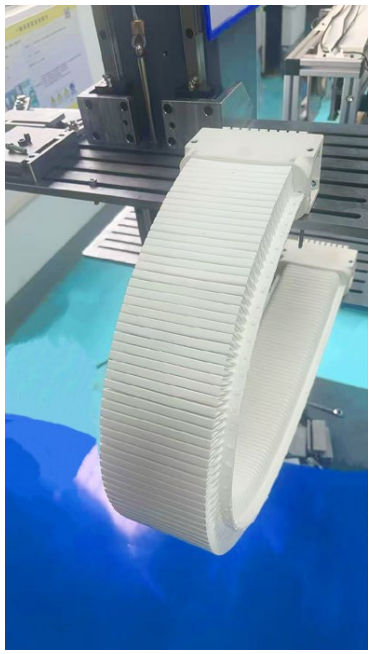
2. 另一半接头对齐，向下按压；
Align the other half of the mounting bracket and press down.



3. 压紧后，接头安装完成。
Once pressed tightly, the mounting bracket installation is completed.

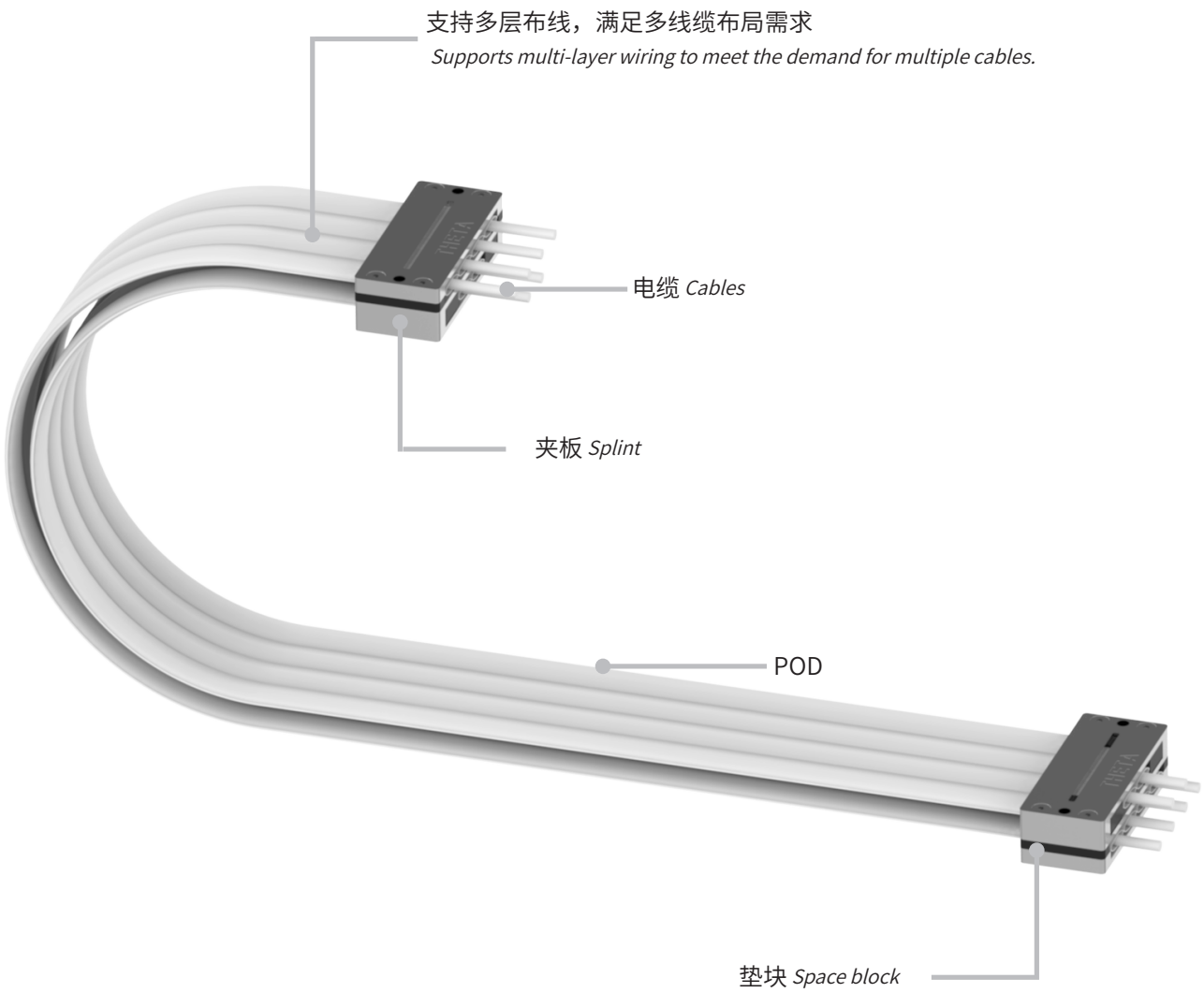
CW 系列 | 应用实例
CW series | Application







CPN 系列 | 产品简介
CPN series | Product introduction



组件名称 *Component name*	**组件材质** *Component material*	**描述** *Description*
POD	E-PTFE	柔韧、轻薄、超长寿命 *Flexible, lightweight and ultra-long service life*
夹板 *Splint*	铝合金 *Aluminium alloy*	轻便美观，安装方便 *Lightweight and attractive, with easy installation*
龙骨 *Keel*	PA	强度高、耐弯折、动态性能好 *High strength, bending resistance, and good dynamic performance*
支撑架 *Support frame*	PA	保护和夹紧电缆及气管 *Protecting and clamping cables and air pipes.*
防滑胶垫 *Non-slip rubber mat*	橡胶 *Rubber*	加固及保护护套 *Reinforced and protective sheath*
垫块 *Spacer block*	PA	定位及支撑作用 *Positioning and supporting functions*

CPN 系列 | 规格
CPN series | Specification

系列 *Series*	孔数 *Hole numbers*	厚度 *Thickness [mm]*	单孔宽 *Hole width [mm]*	边宽 *Edge width [mm]*	总宽 *Total width [mm]*	页码 *Page*
CPN205-1	1	≈ 1.0	20.5	≈ 2.5	26.0	27-28
CPN205-2	2		20.5		49.5	
CPN205-3	3		20.5		71.5	
CPN205-4	4		20.5		94.0	
CPN205-5	5		20.5		117.0	
CPN205-6	6		20.5		139.0	
CPN028-1	1		28		33.0	
CPN028-2	2		28		64.0	
CPN028-3	3		28		94.0	
CPN028-4	4		28		123.5	
CPN040-1	1		40		44.6	
CPN062-1	1		62		66.6	
CPN083-1	1		83		87.6	
CPN096-3	3		20/40/20		92.6	

CPN 系列应用特点 *Features*

- 适用于百级洁净室环境；
- 适用于高速度、高加速度场合；
- 提供定制化方案，满足多样需求。

- *Suitable for hundred cleanroom environment.*
- *Suitable for high speed, high accleration occasions.*
- *Customized solutions are available to meet various requirements.*



CPN 系列在 3C 行业应用
Application of CPN series in the 3C industry.

认证 / 定制化 *Certificates/Customization*

所有产品均已申请发明专利
All products have applied for invention patents.

符合 IPA 百级无尘标准
Compliant with IPA standard.

可根据需求提供防静电等定制化产品
Customized products are available such as ESD.

CPN 系列 | POD 式 | 不可打开

CPN series | POD type | Non-openable

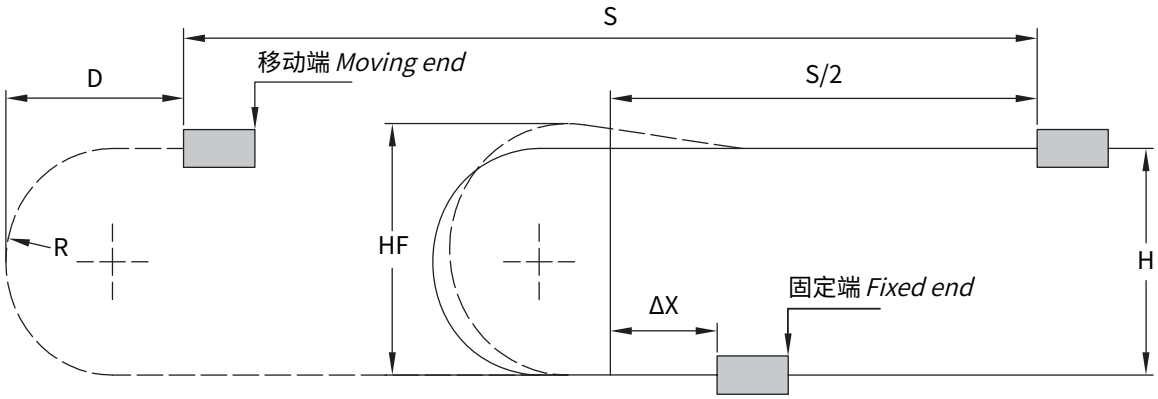


拖链代码 *Product code*	单孔宽 *Hole width [mm]*	腔室数量 *Hole numbers*	最大电缆外径 *Max cable diameter [mm]*	重量 *Weight [kg/m]*
CPN205	20.5	1-6	12	≈ 0.036
CPN028	28	1-4	16	≈ 0.042
CPN040	40	1	23	≈ 0.060
CPN062	62	1	25	≈ 0.089
CPN083	83	1	25	≈ 0.118
CPN096	20/40/20	3	23	≈ 0.138

★ 如需其他规格型号，请与我司工程师联系。
If you need other specifications, please contact our engineers.

架空应用 | L_K=S/2+K（行程中点安装）

Unsupported application | L_K=S/2+K (Installed at the midpoint)



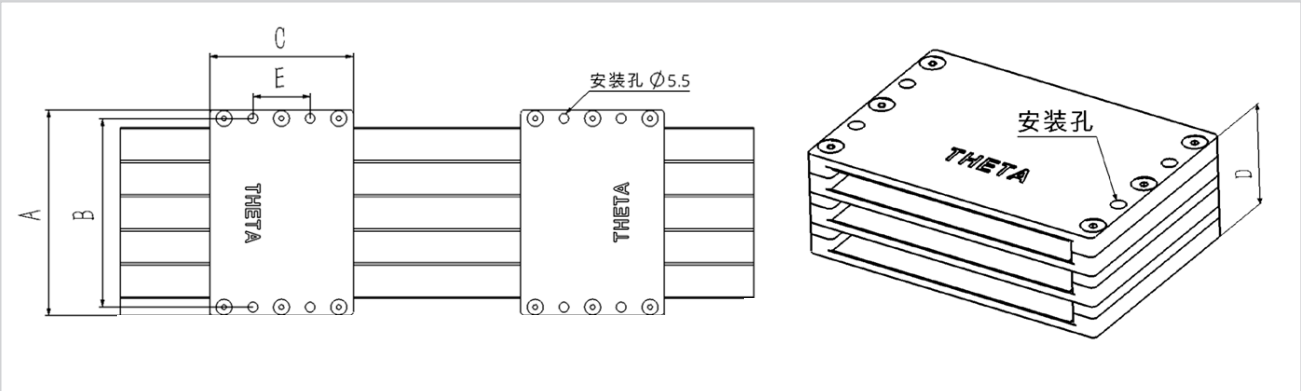
S	=	行程长度 *Stroke*	*[mm]*	D	= 退回极限位置时最小距离 *Minimum distance when retracting to the limit position*	*[mm]*
R	=	弯曲半径 *Bending radius*	*[mm]*	HF	= 最大安装高度 *Maximum installation height*	*[mm]*
H	=	最小安装高度 *Minimum installation height*	*[mm]*	ΔX	= 固定点偏移行程中点距离 *Distance from the fixed point offset to the midpoint of the stroke*	*[mm]*

技术参数 *Technical data*

最大行程 *Max stroke*	4 m	移动寿命 *Moving life*	1000 万次 | *10,000,000 times*
最大速度 *Max speed*	5 m/s	允许温度 *Permitted temperature*	-10.0 - 80.0°C
最大加速度 *Max acceleration*	40 m/s^2	洁净室等级 *Cleanroom Class*	百级 *Hundred*

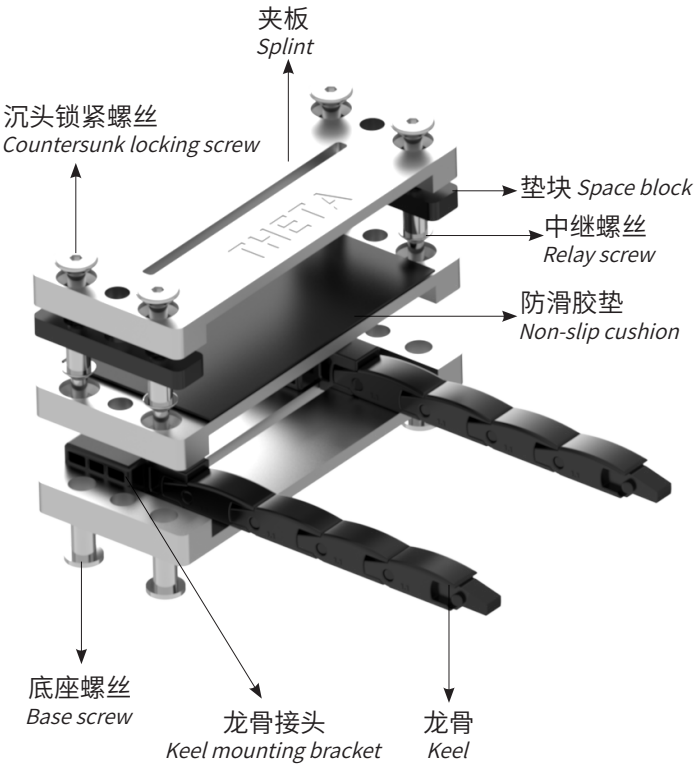
CPN 系列 | 配套附件
CPN series | Accessories

夹板 *Splint*



型号 *Model*	适配标 POD 孔数 *Compatible with standard Pod hole numbers*	A *[mm]*	B *[mm]*	C *[mm]*	D *[mm]*	E *[mm]*
SM2P	1 POD	45.0	35.5	40	取决于设计方案 *Depends on the scheme*	/
M2P	2 POD	57.2	47.7			
M3P	3 POD	76.3	66.8			
M4P	4 POD	95.4	85.9			
M5P	5 POD	114.5	105.0			
M6P	6 POD	133.6	124.1			
B3P	3 POD	76.3	66.8	80	取决于设计方案 *Depends on the scheme*	32
B4P	4 POD	95.4	85.9			
B5P	5 POD	114.5	105.0			
B6P	6 POD	133.6	124.1			

夹板参数表 *Splint parameter list*



订购示例 *Ordering example*

产品名称 *Product*	产品代码 *Product code*	备注 *Note*
夹板 *Splint*	参见“夹板参数表” *Refer to "Splint parameter list"*	
垫块 *Space block*	DK02/DK04	
防滑胶垫 *Non-slip cushion*	DP01/DP02	
中继螺丝 *Relay screw*	ZJ19	
沉头锁紧螺丝 *Countersunk locking screw*	M4	
底座螺丝 *Base screw*	DZ10	
小龙骨 *Small keel*	SK08.08.040/070/100	节距 18mm *Pitch is 18mm*
小龙骨接头 *Small keel mounting bracket*	CW151.12	
中龙骨 *Medium keel*	MK11.12.070/100/130	节距 28mm *Pitch is 28mm*
中龙骨接头 *Medium keel mounting bracket*	CW281.12	

CPN 系列 | 选型方案示例

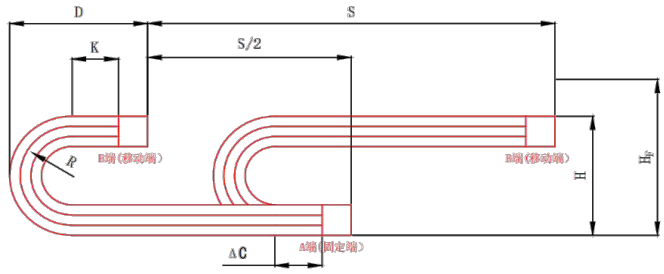
CPN series | Example of selection scheme

步骤 1：填写参数表，并提供给我司销售工程师；

Step1: Fill in the parameter list, and send it to our sales engineer.

无尘拖链 - 参数表
Dust-free cable chain - Parameter list

客户名 **Company**		**工位** **Work section**	
行程 (S) Stroke	_____[mm]	固定端偏移行程中点距离 ΔC Deviation of the center point	_____[mm]
可用最大宽度 Available max width	_____[mm]	可用最大高度 Available max height	_____[mm]



速度 Speed	_____ [m/s]	加速度 Acceleration	_____[m/s²]
静电值要求 ESD value	_____	温度 Temperature	_____ [℃]

管线参数
Cable & Hose Parameter

No.	外径 Outer diameter [mm]	数量 Numbers	重量（选填） Weight (optional) [kg/m]	类型（气管/伺服线/编码线/网线等） Type (trachea, servo line, coding line, network line, etc)	线两端是否有插头 Any plugs at both ends of the line	接头尺寸 Plug size
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

CPN 系列 | 选型方案示例

CPN series | Example of selection scheme

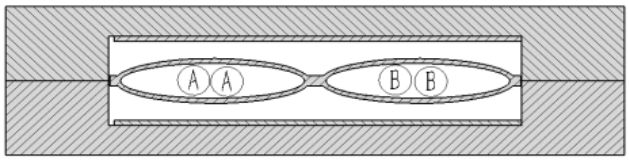
步骤 2：我司根据参数表设计方案，并提供如下 2D 图纸（图纸编号即为下单物料号）；

Step2: We design the scheme based on the parameter list and provide the following 2D drawing. (Drawing number is the ordering number.)

图纸编号	XT-SZWS-20250920-1.2								
图标									
名称	夹板	S040龙骨	S070龙骨	S100龙骨	龙骨接头	空位垫块	薄垫块	厚垫块	防滑胶垫
单位	pcs	pcs	pcs	pcs	set	pcs	pcs	pcs	mm
数量	4	0	0	0	0	0	0	0	153

Fraunhofer TESTED DEVICE IPA

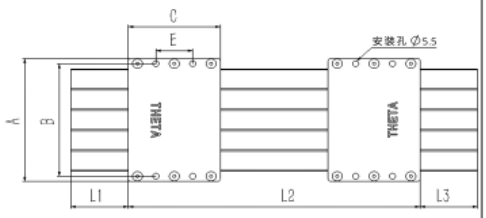
B端（移动端）正视图

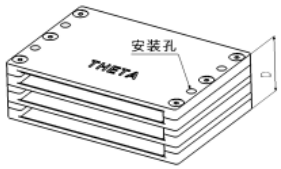



M4*14沉头螺丝*8


中继螺丝*0

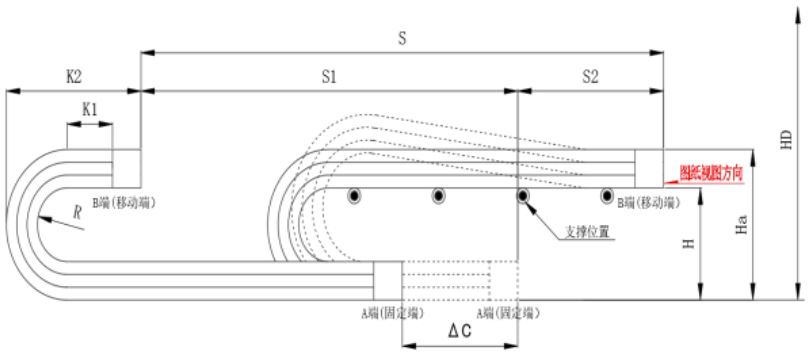

底座螺丝*8





序号	无尘拖链型号	长度(mm)	备注
第1A层	CP205N-2	708	第一层夹板
第1B层	无	0	
第2A层	无	0	第二层夹板
第2B层	无	0	
第3A层	无	0	第三层夹板
第3B层	无	0	
第4A层	无	0	第四层夹板
第4B层	无	0	
第5A层	无	0	第五层夹板
第5B层	无	0	

选用	名称	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
	SM2P夹板	45.0	35.5	40	15	/
	M2P夹板	57.2	47.7			
	M3P夹板	76.3	66.8			
	M4P夹板	95.4	85.9			
	M5P夹板	114.5	105.0			
	M6P夹板	133.6	124.1			
	B3P夹板	76.3	66.8	/	/	32
	B4P夹板	95.4	85.9			
	B5P夹板	114.5	105.0			
	B6P夹板	133.6	124.1			



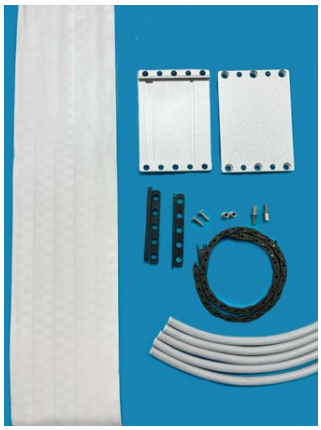
代码	名称	数值(mm)	备注
S	全行程	500.0	
S/2	行程的一半	250.0	
ΔC	固定端偏移中心点的距离	100.0	
Ha	拖链总高度	90.0	
H	安装高度	75.0	
HD	拖链的安全高度	170.0	
K1	拖链预留长度	80.0	
R	最内侧拖链弯曲半径	37.5	
L1	移动端线缆长度		
L2	最内侧无尘拖链长度	708.0	
L3	固定端线缆长度		
K2	移动端退回极限位置最小距离	165.0	

★ 如有 3D 模型需求，请与我司工程师联系。

If you have the requirements of 3D models, please contact our engineer.

CPN 系列 | 拆装

CPN series | Assemble & disassemble



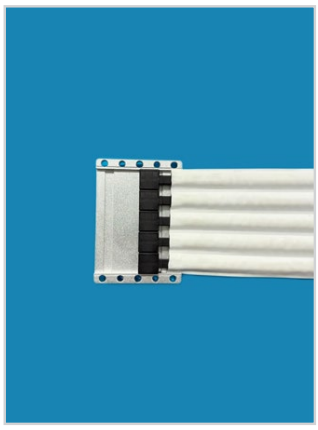
1. 根据图纸将物料准备齐全；
Prepare all materials in accordance with the drawings.



2. POD 穿线；
Thread the cables into the POD.



3. POD 穿龙骨；
Thread the keels into the POD.



4. 将穿好的 POD 放到夹板上；
Place the finished POD on the splint.



5. 锁紧上夹板；（如有多层 POD，重复步骤 4 和 5）
Lock the upper splint. (If there are multiple layers of PODs, repeat step 4-5)



6. 调整 POD 长度；
Adjust the length of PODs.



7. 装机预调；
Installation and pre-adjustment.

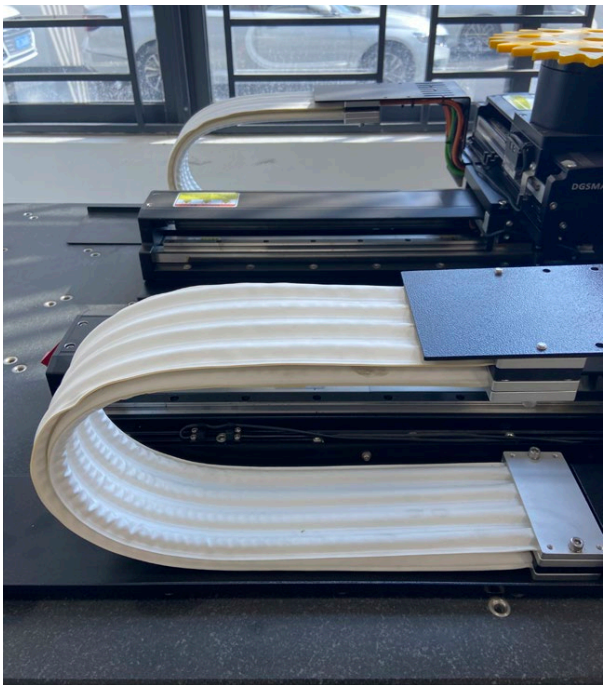


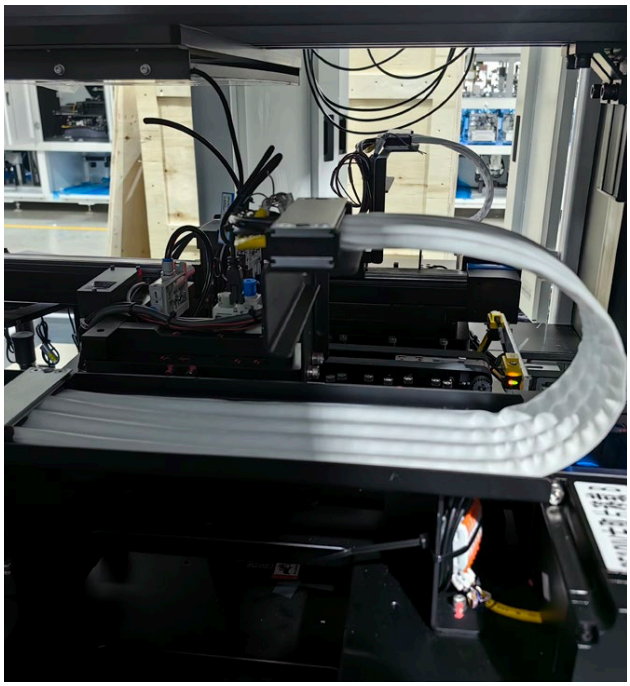
8. 观测运动轨迹有无异物遮挡；
Observe whether there is any object blocking the movement trajectory.

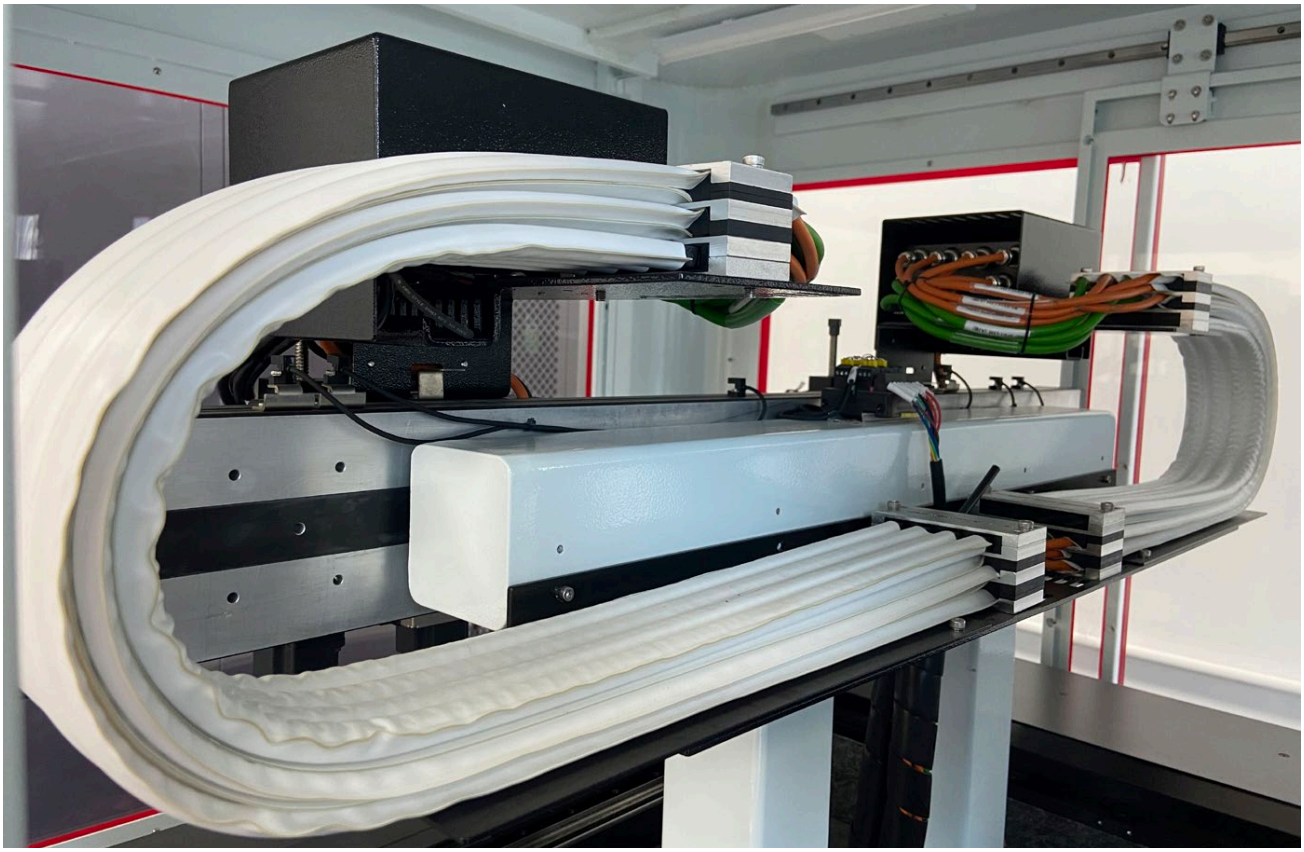


9. 调试完成。
Commissioning completed.

CPN 系列 | 应用实例
CPN series | Application

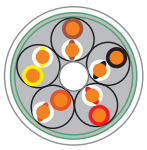
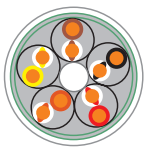
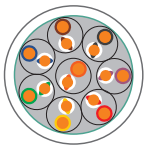
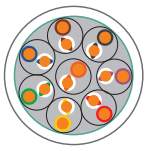






无尘拖链线缆 | 参数

Dust-free cable | Parameters

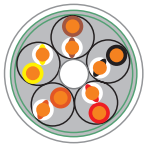
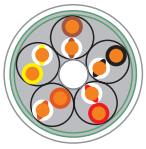
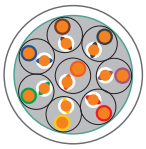
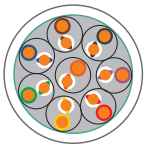
绞合示例 *Stranding example*	导体数 *Conductor number*	线缆规格 *Cable specification*	用途 *Usage*	护套材质 *Sheath material*	绝缘材质 *Insulation material*	外径 *Outer diameter*
	4	4G2.5	动力线 *power line*	LF PVC	PVC	6.4
	4	4G1.5	动力线 *power line*	PVC	PVC	6.4
	4	4G0.75	动力线 *power line*	PVC	PVC	6.4
	4	4G0.5	动力线 *power line*	PVC	PVC	6.4
	6	(6G0.5)	IO 信号线缆 *IO signal cable*	PVC	PVC	6.7
	5	(5G2*0.25)	信号线 *signal cable*	PVC	PVC	6.0
	6	(6G2*0.25)	信号线 *signal cable*	PVC	PVC	6.0
	8	(8G2*0.14)	信号线 *signal cable*	PVC	PVC	6.0
	10	(10G2*0.14)	信号线 *signal cable*	PVC	PVC	6.0

无尘拖链线缆 | 参数
Dust-free cable | Parameters

绞合示例 *Stranding example*	导体数 *Conductor number*	线缆规格 *Cable specification*	用途 *Usage*	护套材质 *Sheath material*	绝缘材质 *Insulation material*	外径 *Outer diameter*
	3	(3G2*0.25)	信号线 *signal cable*	PVC	PVC	5.0
	4	(4G2*0.25)	信号线 *signal cable*	PVC	PVC	5.0
	9	(3G0.34+3G2*0.14)	复合电缆 *composite cable*	PVC	PVC	6.2
	7	3G0.34+2G2*0.14	复合电缆 *composite cable*	PVC	PVC	5.6
	8	4G(2*AWG26)	动力线 *power line*	PVC	PVC	6.5
	4	4G2.5	动力线 *power line*	TPE	TPE-E	6.4
	4	4G0.75	动力线 *power line*	TPE	TPE-E	6.4
	4	4G1.5	动力线 *power line*	TPE	TPE-E	6.4
	4	4G0.5	动力线 *power line*	TPE	TPE-E	6.4

无尘拖链线缆 | 参数

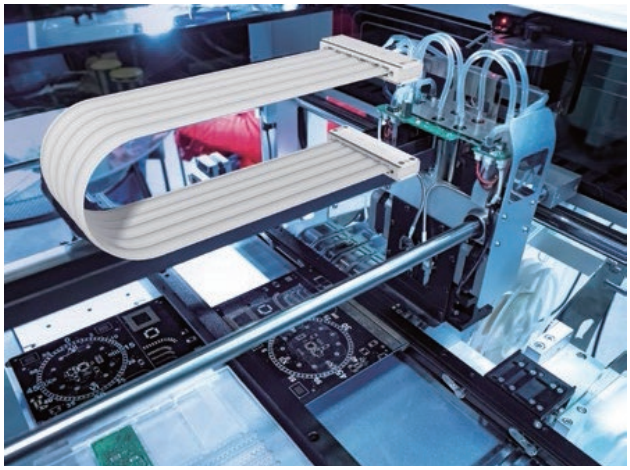
Dust-free cable | Parameters

绞合示例 *Stranding example*	导体数 *Conductor number*	线缆规格 *Cable specification*	用途 *Usage*	护套材质 *Sheath material*	绝缘材质 *Insulation material*	外径 *Outer diameter*
	6	6×0.5	动力线 *power line*	TPE	TPE-E	6.7
	5	(5G2*0.25)	动力线 *power line*	TPE	TPE-E	6.0
	6	6G2*0.25	动力线 *power line*	TPE	TPE-E	6.0
	8	8G2*0.14	信号线 *signal cable*	TPE	TPE-E	6.0
	10	10G2*0.14	信号线 *signal cable*	TPE	TPE-E	6.0
	3	3G2*0.25	信号线 *signal cable*	TPE	TPE-E	5.0
	4	4G2*0.25	信号线 *signal cable*	TPE	TPE-E	5.0
	9	(3G0.34+3G2*0.14)	动力线 *power line*	TPE	TPE-E	6.2
	7	3G0.34+2G2*0.14	动力线 *power line*	TPE	TPE-E	5.6
	8	4G(2*AWG26)	动力线 *power line*	TPE	TPE-E	6.5

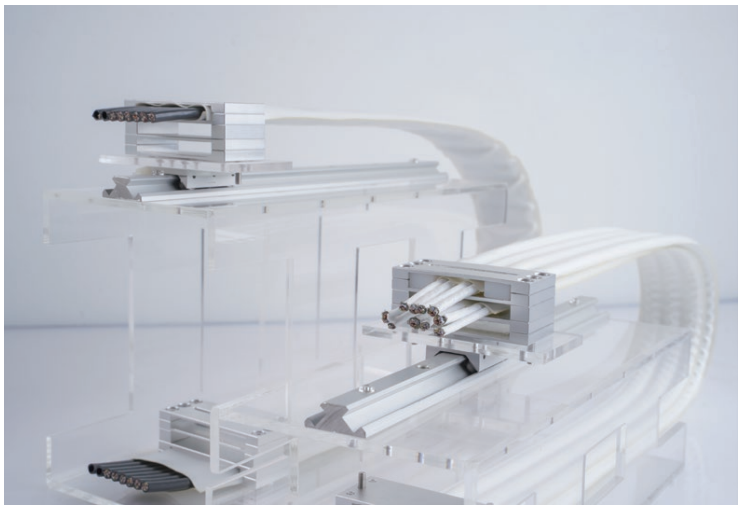
无尘拖链线缆 | 参数
Dust-free cable | Parameters

- 符合无尘室 ISO 百级无尘标准
  Compliant with ISO cleanroom standards
- 进口品牌
  Imported brand
- 极小弯曲半径，极佳的动态性能
  Extremely small bending radius and excellent dynamic performance
- 高耐磨性，表皮抗撕裂
  High wear resistance and tear-resistant outer skin
- 规范安装下，往复寿命超过 1000 万次
  Under standardized installation, the reciprocating service life exceeds 10 million times.
- 无最小起订量
  No minimum ordering quantity











Partial customers

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