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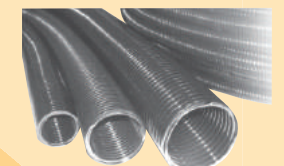
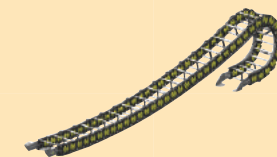
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KODUCT CO.,LTD.



We create customer impression beyond customer satisfaction



www.koduct.com



Challenge toward the world! Challenge toward the future!



A Company, Creating Values Global Partner, Win-Win Partnership

KODUCT CO., LTD. is a leading company of the cable carrier industry in S.Korea. We preserve our effort to manufacture better products, provide various sizes and design through constant R&D and investment. Our goal is customers' satisfaction with a correct forecast of needs and we want to offer sincere services. KODUCT CO., LTD. makes sure your maximized profit from our accumulated experiences.

(株)KODUCTは韓国ケーブルキャリアー市場におきまして、お客様のあらゆるニーズにお答えるため、日々弛まめ努力を続けてまいりました。急速に進歩を続ける世界の産業界に対し、研究開発と設備投資により、多様なサイズとバリエーションの製品を用意し皆様のご要望にお答えいたします。弊社の目標はお客様のニーズを正確に把握し、真心を尽くした最高のサービスを提供することで顧客満足を実現することにあります。KODUCTはこれまで積み重ねてきた経験を提供することで、お客様に最小限のコストで最大の性能と利益をもたらし、世界のトップブランドへ躍進することを目指してゆく所存です。



◀ U.S.A Plant
6070 PERIMETER Park Way Montgomery
AL 36116 U.S.A



▶ CHINA Plant
SHANGHAI



History of Company

1986	Established under the company name of Woojin International Co..	1986	Woojin International設立。
1992	Successful development of cable carriers in the century.	1992	ケーブルキャリア国内開発成功。
1997	Converted into KODUCT CO.,LTD..	1997	社名変更(Woojin International→KODUCT CO.,LTD.)
	TAIWAN overseas office set up.		台湾事務所設立。
2002	CE certificate obtained.(Cable Carrier)	2002	CE認証取得。(ケーブルキャリア)
2005	Established the branch corporation in SHANGHAI, CHINA.	2005	上海法人事務所設立。
	Management system "ISO9001" registered.		ISO9001認証取得。
2006	Established a R&D center.	2006	R&Dセンター設立。
	Automotive quality system ISO/TS16949 registered.		国際自動車品質認証ISO/TS16949取得。
2007	UL Mark obtained for Flexible Tube.	2007	UL MARK取得。(フレキシブルチューブ)
	Established the branch corporation in AL,USA.		米国(アラバマ州)法人事務所設立。
	IPA certificate obtained.(low dust and noise_class 1)		ケーブルキャリアKDタイプのIPAテスト(クラス1)。
2008	Expanded Official Commendation form "venture Business"	2008	"ベンチャー企業賞"受賞。
	Official Commendation form "Invention, Konzession"		"発明特許_大賞"受賞。
	Official Commendation form "Export of million dollar"		"100万ドル輸出賞"受賞。
2009	Acqured a pranchise of Dresspack ASIA-PACIFIC.(LEONI CO./GERMANY)	2009	Dresspack(LEONI社/ドイツ)のアジア販売権獲得。
2010	Developed the real-time monitoring system for spot welding condition.	2010	リアルタイムスポット溶接のモニターリングの商品を開発。
2012	Official Commendation form "Patent Technology".	2012	"優秀特許技術賞"受賞。
2013	Taking ROHS test for Connector.(non detection of harmful substance)	2013	コンネクタのROHSテスト。(有害物質不検出)
2014	Win the grand prize for Pantent Innovation Business Association.	2014	"特許特許革新企業協会_最優秀賞"受賞。

KODUCT...

MISSION	<ul style="list-style-type: none"> Development of PERFECT QUALITY PIROT product Development of proper APPLICATIONS : MOLD / MATERIAL / PROCESS Design Competent : CABLE CARRIER / FLEXIBLE TUBE / CONNECTER デザインの競争力の強化 新素材の適用、金型技術、生産プロセス技術の開発による生産システムの最適化 欠点のない品質の製品開発：ケーブルキャリア、ホース、ブラケット類
VISION	<ul style="list-style-type: none"> R&D Center Accumulation of CORE TECHNOLOGIES for NEW PRODUCTS / PROCESSES INNOVATIONS In Electronics, Automotive, Robotize R&D Center 核心要素技術の蓄積で競争力の強化 新製品及び製品の生産プロセス技術の開発
PLANNING	<ul style="list-style-type: none"> Reorganization ▶ R&D, Product Team Reinforce IMPROVEMENT ACTIVITY(Cost Reduction) ▶ Enhanced Core Technology in Product Process Review APPLICATIONS for New Paradigm Business Models 組織改革、技術の研究開発、生産技術開発の核心人材の補強 生産コストの削減のための改善活動経営の重点提示 → 生産及び先行技術の重要な要素技術の強化 持続的な企業の成長と価値付与のための新成長動力の発掘

What's the Cable carrier

ケーブルキャリアとは

Cable carrier attached in moving equipment is used to protect cables and hoses. It prevents cables and hoses from being tangled, disconnected caused by rapid movements.

Cable carrier is made of plastic or metal in accordance of environment and applications. Additionally the material of engineering plastic is widely used for normal cases.

ケーブルキャリアは各種機械、装置の稼動部に装着されるケーブル、ホースの絡みやねじれを防止し、断線を防ぐ目的で使用されます。ケーブルキャリアは使用環境、使用用途に応じ、金属製またはエンジニアリングプラスチック製を選択します。

Details to select proper Cable carrier

ケーブルキャリアの選定に必要な条件

- Travel of machinery : To calculate lengths
- Outer diameters and Quantity of cables and hoses
To select an inner width of the Cable carrier
- Outer diameters of the thickest cables of hoses
To select a radius of the Cable carrier
- Total weight of cables and hoses
To select a span of the Cable carrier
- The working period of machines
- Ambient temperature

- 移動ストローク及び速度、加速度
- ケーブル、ホースの許容屈曲半径(稼動時)
- 走行頻度(1日または1時間当たり)
- ケーブル、ホースの外径及び数量
- ケーブル、ホースの重量
- 使用環境

How to decide radius of Cable carrier

曲げ半径の選定

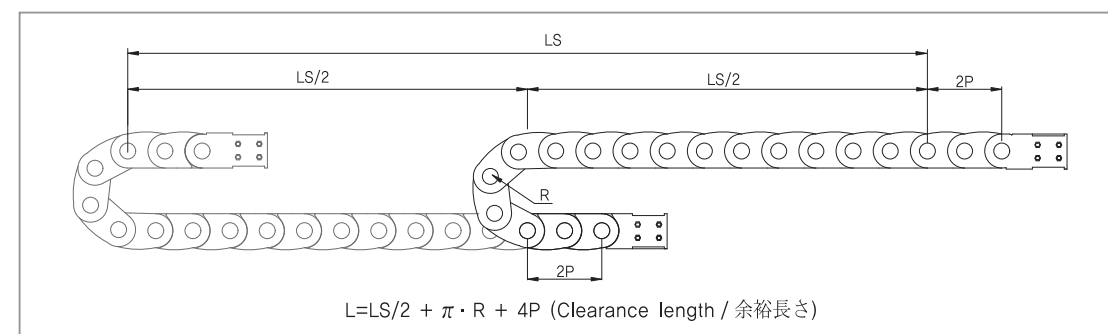
- In case of not knowing cable radius, you can select following details.
- Electronic Cables : $R_{min} > 6 \sim 8 \times \varnothing$ (outer diameter of the thickest cable)
- Pneumatic Lines : $R_{min} > 8 \sim 10 \times \varnothing$ (outer diameter of the thickest cable)
- Hydraulic Hoses : $R_{min} > 12 \sim 15 \times \varnothing$ (outer diameter of the thickest cable)

ケーブルキャリアの曲げ半径の選定は、使用されるケーブル、ホースのうち、耐屈曲半径(稼動時)が最も大きなものに合わせ、それより大きな曲げ半径のケーブルキャリアをご選定ください。尚、使用されるケーブル、ホースの耐屈曲半径が不明な場合は以下をご参照ください。

- ケーブル : 最大外径 $\times 6 \sim 8$ 倍
- エアーホース : 最大外径 $\times 8 \sim 10$ 倍
- 油圧ホース : 最大外径 $\times 12 \sim 15$ 倍

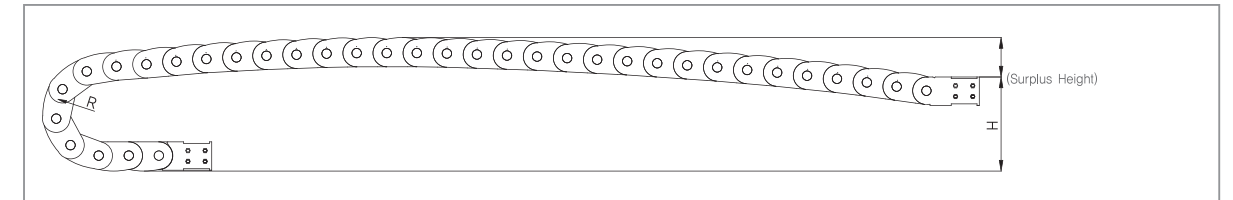
Calculation of the length

ケーブルキャリアの長さ計算



How to decide clearance height of Cable carrier

高さ方向のクリアランス

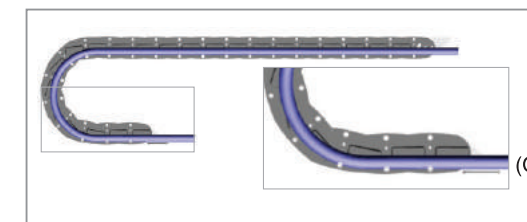


The clearance height enables safe operation and a long-term performance. Additionally for particular machinery, the products can be supplied without clearance heights. (No surplus height for slide type such as CDPS, SRS, WS type)

ケーブルキャリアはケーブル、ホースを支持し、長期間安全に動作させるためプリテンションを設定し製造されております。設計に際し、ケーブルキャリアが走行する空間では、取付け高さに加え、プリテンションを考慮した高さ余裕をとる必要があります。

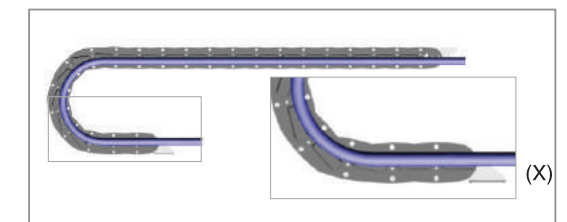
How to install Cables and hoses

ケーブル・ホースの装着



Surplus 15% of the cable length is required to prevent it from being disconnected during its operation.

ケーブルキャリアへのケーブル・ホースの装着に際しては適切な余裕を確保してください。余裕が適切でない場合はケーブルの磨耗やコークスクリュア発生の原因となります。

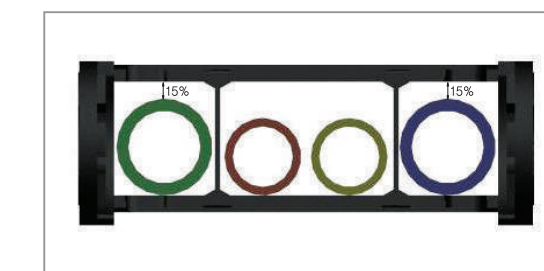


Cables and hoses are aligned and fixed in front of the Moving and Fixed End Bracket.

ケーブルは移動端と固定端でしっかりクランプしてください。(油圧ホースは移動端のみクランプ)

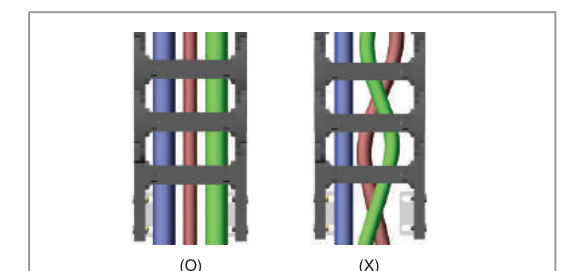
How to align Cables and hoses

ケーブル・ホースの配置



Classify cables and hoses in proportion. For smooth and repeat movement of cables and hoses in Cable carrier, they should be placed spaciouly.

重量バランスが左右均等となるようケーブル・ホースを装着してください。隣りあうケーブル間の空間はケーブル外径の10%、高さ方向はケーブル外径の15%程度を確保してください。



Cables and hoses should be brought into a line to prevent them from being tangled.

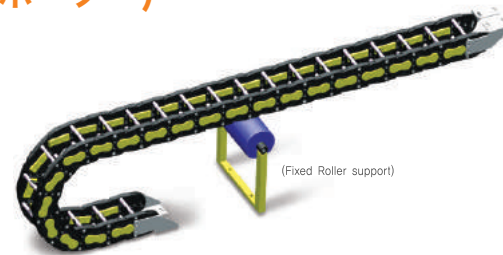
隣りあうケーブルの外径がケーブルキャリアの高さの1/2以下またはケーブル同士が乗り越える可能性がある場合、セパレーターを装着し、分離してください。ケーブル・ホースは絡み合わないよう装着してください。

To prevent Cable carrier from being sagged(Roller Support)

ケーブルキャリアの垂れ防止(ローラーサポーター)

When extended lengths are needed even if there are already free span length per each type, the Fixed Roller Support should be installed as the left picture to prevent them from being sagged.

フリースパンを超え、ストローク延長が必要な場合、支持ローラーまたは中間サポートを設置することで、最大、フリースパンの4倍までストローク延長することが可能です。

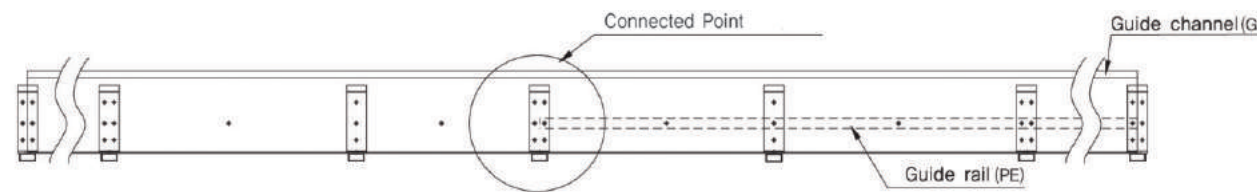


How to install Cable carrier for long travel(Guide Channel)

ロングストロークでの使用(ガイドチャンネル)

installing proper Guide channel is also important as much as finding correct Cable carrier.
It does not cause defects to supply Cable carrier with Guide channel.
When customers manufacture Guide channel directly, it can be some problems without comments from our Engineer.
We provide our drawing of Cable carrier with Guide channel in case.

ケーブルキャリアはフリースパンを大きく超えるロングストロークでの使用が可能です。(プラスチック製ロングストローク仕様の場合) この場合、走行スタイルがグライド状態となるため、専用のガイドチャンネルと特別な許容計算が必要です。ご使用条件を担当者にご連絡ください。

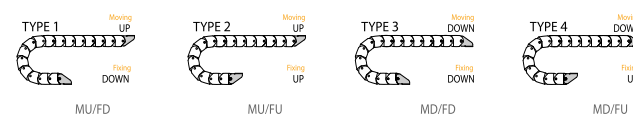


Cable carrier Order Form

Type	Width	Radius	Length	E/B Setting TYPE (Up,Down)	Qty(Set)
KP16	10 (0.393)	18 (0.708)	1,014L(65Link) (39.921)	MU/FD, MU/FU, MD/FD, MD/FU	10Sets

* ex) KP16 - W010 - R018 - 1014L : MU / FD

End bracket Setting Example



72db
*Phone rings 70db

- ▶ Reduce the noise of the skate
- ▶ Improvement of Pitch and Inner Height size
- ▶ Reduce friction with the floor
- ▶ Reduce friction with the guide channel
- ▶ スケートの騒音減少
- ▶ ピッチと内高の寸法を改善
- ▶ 底との摩擦衝撃減少
- ▶ チャンネルとの摩擦衝撃減少

Low Noise, High Speed, Gantry Loader

KH Type, KHA Type



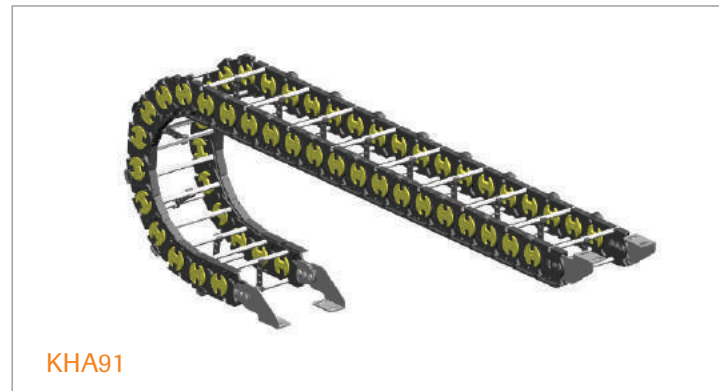
INDEX

Spec Type	Pitch	Width	Radius(mm)							Height(mm)			Inside Height	Max. Size of Cable & Hose (mm)	Moving Speed	Material				Distance (단위/M)														
			200	250	300	350	400	450	500	70.5	80	90				100	110	Body	Divider	Separator	End Bracket	Short & Long	Free Span	Recommend Length										
HYBRID CABLE CARRIER	KHA91	91	100~600							200	250	300	350	400	450	500	70.5	65	5m/sec	ENG. Plastic	ENG. Plastic	Aluminum	Steel	Short Distance	3.6	4.2								
	KHA92	91	100~600							200	250	300	350	400	450	500	80	73	"	"	"	"	Short Distance	3.6	4.2									
	KH526/S	52.6	65	80	100	125	150	175	200	225	250				47.9	43	"	"	ENG. Plastic	"	Long Distance	-	-											
	KHA526/S	52.6	80~400							125	175	225	275				49	43	"	"	Aluminum	"	Long Distance	-	-									
	KHA91/S	91	100~600							200	250	300	350	400	450	500	70.5	65	"	"	"	"	Long Distance	-	-									
KHA92/S	91	100~600							200	250	300	350	400	450	500	80	73	"	"	"	"	Long Distance	-	-										
PLASTIC COVER TYPE	KP16	15.6	10	15	25	40								18	28	38	50	113		10	8	3m/sec	ENG. Plastic	x	x	ENG. Plastic	Short Distance	1.3	0.8					
	KP20	20	15	25	30	40								18	28	37	50	120		15	12	"	"	x	x	"	Short Distance	1.5	1.2					
	KP32	32	15	25	35	50								28	38	102	126	176	226		20	16	"	"	x	x	"	Short Distance	1.8	1.9				
	KP40	40	40	57	80	100								50	75	100	125	150	200	250		25	22	5m/sec	"	ENG. Plastic	x	Steel	Short Distance	2	1.8			
	KP454	45.4	40	57	80	100								48	70	90	120	145	195	432		28	23	3m/sec	"	"	x	ENG. Plastic	Short Distance	1.5	1.7			
	KP50	55.5	40	50	65	75	80	87	100	120	150	160	175	187	200	60	75	100	125	150	200	250		32	28	"	"	Aluminum	"	Short Distance	2.3	2.8		
	KSC588	58.8	50	65	75	80	87	100	120	150	160	175	187	200	68	80	100	125	150	200	250	300	350	400	36.1	31	"	"	ENG. Plastic	"	Short Distance	2.5	2.5	
	KDP070	70	65	75	80	87	100	120	150	160	175	187	200	75	100	130	180	230	280	330	380	430	480	40	36	"	"	Aluminum	"	Short Distance	2.7	2.7		
	KSC715	71.5	65	80	100	125	150	175	200	225	250				80	100	125	150	200	250	300	350	400	47.9	43	"	"	ENG. Plastic	"	Short Distance	3.3	2.5		
	KP90	91	150	200	250	300	350	400							150	200	250	300	350	400	450	500	550	54.5	50	"	"	Aluminum	"	Short Distance	4	3.3		
	KDP100	100	100	150	200	250	300	350	400						150	200	250	300	350	400	450	500	550	85	78	5m/sec	"	"	"	Steel & ENG.	Short Distance	4.8	5	
	KP357	35.7	52												75	87	100	125	150	200	250	300	350	400	36.9	32	3m/sec	"	x	x	ENG. Plastic	Short Distance	2	2
	CDP080	80	100	150	200	250	300	350	400						150	200	250	280	300	320	340	360	380	40	45	5m/sec	"	"	x	"	Short Distance	3.2	3	
	CDP091	91	100	150	200	250	300	350	400						150	200	250	300	350	400	450	500	550	55	53	3m/sec	"	"	x	"	Short Distance	3.6	3.8	
	CDP100	100	100	150	200	250	300	350	400						200	250	300	350	400	450	500	550	600	68	62	5m/sec	"	"	Aluminum	"	Short Distance	3.2	4.2	
ALUMINUM BAR TYPE	CDS070	70	80~400							75	100	130	180	230	280	330	380	430	480	530	580	630	680	40	36	3m/sec	ENG. Plastic	ENG. Plastic	Aluminum	Steel	Short Distance	2.8	2.5	
	CDS080	80	80~400							150	200	250	280	300	320	340	360	380	400	420	440	460	480	47	43	5m/sec	"	"	"	"	Short Distance	3.2	3	
	K90	91	100~600							150	200	250	300	350	400	450	500	550	600	650	700	750	800	57	50	"	"	"	"	Short Distance	3.8	3.8		
	CDS100	100	100~600							200	250	300	350	400	450	500	550	600	650	700	750	800	850	70.5	62	"	"	"	"	Short Distance	3.6	4.2		
	CDS150	150	100~800							200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	111	100	"	"	"	"	Short Distance	8.5	5		
ENCLOSED TYPE	KM50	55.5	40	65	80									75	100	125	150	200	250	300	350	400	450	32	28	3m/sec	ENG. Plastic	x	x	Steel	Short Distance	2.3	2.5	
	KM715	71.5	75	100	120									100	125	150	200	250	300	350	400	450	500	45	41	"	"	ENG. Plastic	Aluminum	"	Short Distance	2.8	2.5	
	KM90	91	150	200										150	200	250	300	350	400	450	500	550	600	54	50	"	"	"	"	Short Distance	3.8	3.5		
	CDM050	50	40	70										75	100	125	150	200	250	300	350	400	450	21	17	"	"	x	x	"	Short Distance	2.4	1.8	
	CDM080	80	150	200	300									150	200	250	280	300	320	340	360	380	400	48	45	5m/sec	"	"	x	"	Short Distance	3.2	2.8	
	CDM091	91	150	200	250	300								150	200	250	300	350	400	450	500	550	600	55	51	3m/sec	"	"	Aluminum	"	Short Distance	3.5	3.5	
	CDM100	100	150	200	300									200	250	300	350	400	450	500	550	600	650	68	64	3m/sec	"	"	"	"	Short Distance	3.2	3.7	
	KDM100	100	150	200	300									200	250	300	350	400	450	500	550	600	650	85	66	5m/sec	"	"	"	Steel & ENG.	Short Distance	4.5	4.5	

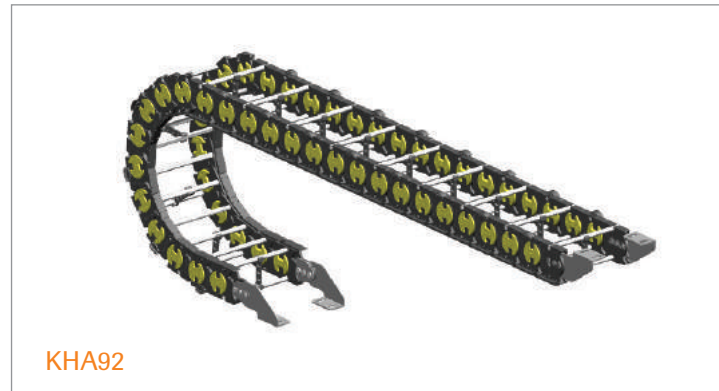
Spec Type	Pitch	Width	Radius(mm)							Height(mm)			Inside Height	Max. Size of Cable & Hose (mm)	Moving Speed	Material				Distance (단위/M)													
			28	38	48	58	68	78	88	100	125	150				175	Body	Divider	Separator	End Bracket	Short & Long	Free Span	Recommend Length										
CLEAN ROOM TYPE	KD20A	20	20	40	60									28	38	48	58	68	78	88	98	108	118	15	8	3m/sec	ENG. Plastic	x	x	ENG. Plastic	Short Distance	0.5	0.7
	KD20B	20	20	40	60									28	38	48	58	68	78	88	98	108	118	20	8	"	"	x	"	Short Distance	0.5	0.7	
	KD30A	30	40	56	80	100	125	150						45	55	65	75	85	95	105	115	125	135	25	21	"	"	ENG. Plastic	Aluminum	"	Short Distance	0.7	0.9
	KD30B	30	40	56	80	100	125	150						45	55	65	75	85	95	105	115	125	135	36	24	"	"	"	"	Short Distance	0.7	1.2	
	KD40	40	36	52	76	96	121	146						75	241	100	291	125	341	150	391	200	491	57	41	"	"	"	"	Short Distance	0.9	1.6	
	KA33	33.5	36	52	76	96	121	146						55	168	75	208	100	258	125	308	150	358	200	458	36	32	"	"	"	"	Short Distance	1.8
LONG DISTANCE PLASTIC TYPE	CDPS050	50	54	80										75	130	100	130	125	130	130	130	130	29	22	3m/sec	ENG. Plastic	ENG. Plastic	Aluminum	Steel	Long Distance	-	20	
	KSC588/S	58.8	50	65	80	100	120	160	200					68	200	80	200	100	200	125	200	150	200	36.1	31	"	"	"	ENG. Plastic	Long Distance	-	15	
	KSC715/S	71.5	65	80	100	125	150	175	200	225	250			80	250	100	250	125	250	150	250	200	250	47.9	43	"	"	"	"	Long Distance	-	15	
	KDPS070	70	65	75	80	87	100	120	150	160	175	187	200	75	230	100	230	130	230	180	230	230	230	40	36	"	"	"	Aluminum	Steel	Long Distance	-	35
	CDPS080	80	100	150	200	250	300	350	400					150	250	200	250	250	280	250	400	250	49	45	5m/sec	"	"	x	Steel	Long Distance	-	60	
	CDPS100	100	100	150	200	250	300	350	400					200	300	250	300	300	350	300	400	300	500	68	62	"	"	"	Aluminum	"	Long Distance	-	70
KDPS100	100	100	150	200	250	300	350	400					200	350	250	350	350	350	400	350	400	350	85	78	3m/sec	"	"	"	Steel & ENG.	Long Distance	-	60	
CDPR100	100	100	150	200	250	300	350	400					200	300	250	300	300	350	300	400	300	300	68	62	5m/sec	"	"	"	"	Long Distance	-		

Hybride Cable Carrier ハイブリッドケーブルキャリア

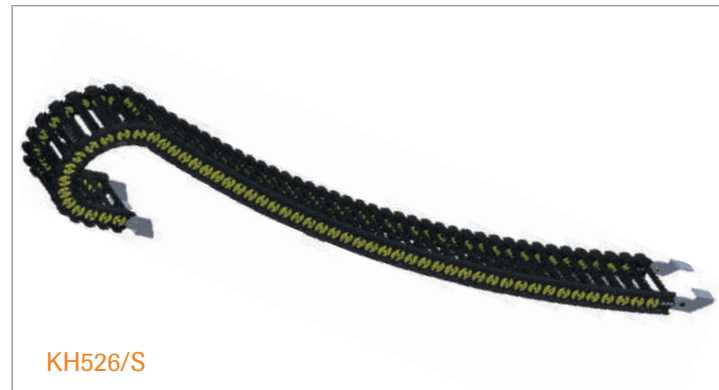
Plastic Cover Type プラスチックカバータイプ



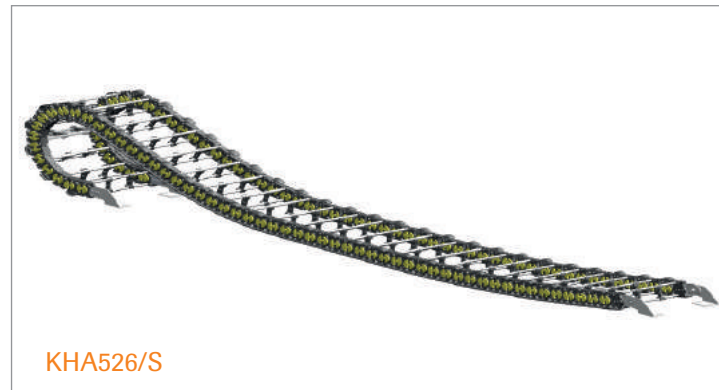
KHA91



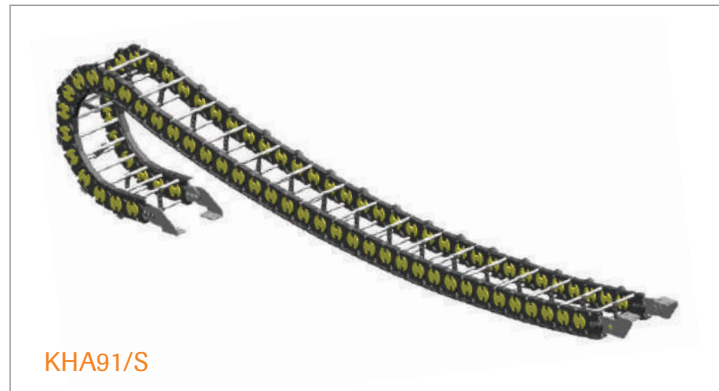
KHA92



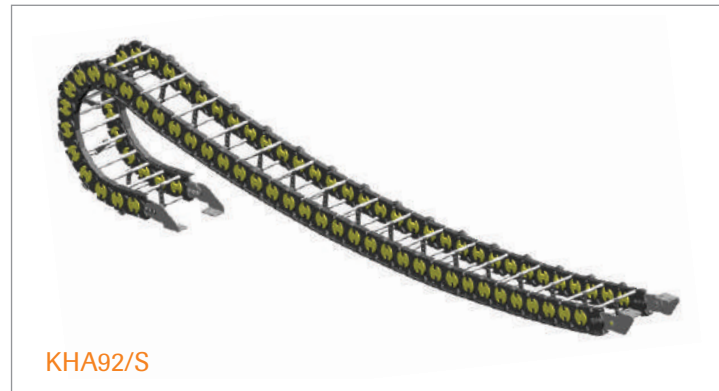
KH526/S



KHA526/S



KHA91/S



KHA92/S

○ Features

- ・ Noise by impact is minimized(72db)with the application of noise buffer system (N.P CAP) and strengthen durability .
- ・ Cable's lifespan will be extended with smooth radius by reducing gab between inner height and pitch size .
- ・ All-in-One type of Skate and Body with excellent durability and no breakaway of the Skate.
- ・ The friction noise is minimized by reducing gab between the Skates.
- ・ It is easy to check changing time of skate when see the skate abrasion so It has excellent maintainability .

○ Applications

- ・ Machine tools, Cutting machines, Welding equipments, Automation machines, Automotives lines, Automatic lines and crane and etc

- ・ 騒音防止NP CAPを装着、リンクとリンクの衝撃を吸収して騒音減少(72db)と耐久性UPを実現
- ・ 内高サイズとピッチサイズを改善して円満な曲げ半になるように開発、ケーブルの寿命を延長
- ・ スケートとリンクが一体タイプになっていてスケート離脱がなくなる
- ・ スケート間の段差を減らして摩擦騒音を最小化
- ・ スケートに寿命線を入れて磨耗と交替時期を目で確認

- ・ 工作機械、自動溶接装置、自動溶接装置、オートローダー、クレーン、自動車生産ラインなど。



○ Features

- ・ It can be opened with a '-' screwdriver.
- ・ Less noise during high-speed driving.
- ・ Open and shut type for convenient installation, maintenance.
- ・ Made of engineering plastic for the light weight and smooth movements.
- ・ エンジニアリングプラスチック製で軽量、動きもスムーズ。
- ・ 蓋が開閉式でケーブル、ホースの設置が容易。
- ・ 組み立て、リンク接続はドライバー1本でOK。
- ・ 高速走行時、低騒音。

○ Applications

- ・ Machine tools, Automation machines, Woodworking equipments, Medical equipments
- ・ 工作機械、自動機、木工機械、医療器械、食品機械、その他一般産業機械。

Aluminum Bar Type アルミバータイプ



○ Features

- ・ Made of engineering plastic for the light weight and smooth movements.
- ・ Covers consisted of aluminum bars provide better solidity.
- ・ Open and shut type for convenient installation, maintenance.
- ・ エンジニアリングプラスチック製で軽量。
- ・ アルミ製クロスバー採用で頑丈。
- ・ 三点支持連結でリンク間の結合性に優れる。
- ・ 幅寸法は自由に設計可能。

○ Applications

- ・ Machine tools, Cutting machines, Welding equipments, Automation machines and etc.
- ・ 工作機械、自動溶接装置、自動機など。

Enclosed Type 全閉タイプ



○ Features

- Made of engineering plastic for the light weight and smooth movements.
- Sealed type protects cables and hoses from any dust.
- Open and shut type for convenient installation, maintenance.

○ Applications

- Machine tools, Cutting machines, Welding equipments, Automation machines and etc.

- エンジニアリングプラスチック製で軽量、動きもスムーズ。
- 密閉タイプで粉塵等からケーブル、ホースを完全に保護。
- 蓋が開閉式でケーブル、ホースの設置が容易。

- 工作機械、切断機、自動溶接装置、自動機など。

Long Distance Plastic Cover Type 長距離プラスチックカバータイプ



○ Features

- Proper for more than twice length of the free span.
- Made of engineering plastic for the light weight.
- Openable covers provide convenient installation and maintenance.
- Skates enable longer operation life and worn skates can be replaced conveniently.
- Exactly measured guide channels should be installed for a long term performance and excellent movements

○ Applications

- Machine tools, Moving equipments, Industrial robots and Applications for long travel

- ロングストロークに最適。
- エンジニアリングプラスチック製で軽量。
- 蓋が開閉式でケーブル・ホースの設置が容易。
- グライディングスケートの採用で長寿命、スケート交換可能。
- 専用ガイドチャネルの使用で更に長寿命を可能。

- 工作機械、オートローダー、各種産業ロボットなど。

Clean Room Type クリーンルームタイプ



○ Features

- It is used for clean room and no friction among Cable Carriers designed by Low dust and less noise Cable Carriers, and it is appropriate environmentally friendly products.
- IPA certificate obtained and SEVEN made of Engineering Plastic (Hazardous substances are not detected based on RoHS). The Radius can be replaced simply with only Radius Pin for customer's convenience and the Link connection type can control the length of Cable Carrier.
- Easy to install and assemble with a-crew driver and can fix with machines on three parts(up, down, front).

○ Applications

- Machine tools, Cutting machines, Welding equipments, Automation machines and etc.

- クリーンルームや低摩擦、低摩耗を要求される使用条件向けに開発された、低騒音、低振動で環境にもやさしいケーブルキャリアです。
- IPA認定のエンジニアリングプラスチック採用。(RoHS指令危険物質非該当)
- リンク接続方式により長さを自在に調整できます。
- 組み立て、組み替えもドライバー一つで簡単にできます。
- 3方向取付け可能なエンドブラケット。・リンク接続時、歪みない構造。

- クリーンルーム、ロボット、実装機。

Long Distance Aluminum Bar Type 長距離アルミバータイプ



○ Features

- Proper for more than twice length of the free span.
- Skates provide better operation with lower power and less noise.
- Skates are exchangeable and give longer operation life.
- Skates enable longer operation life and worn skates can be replaced conveniently.
- Sustainable for loads of cables and hoses.
- Exactly measured guide channels should be installed for a long term performance and excellent movements
- Various inner widths can be applied for your use.

○ Applications

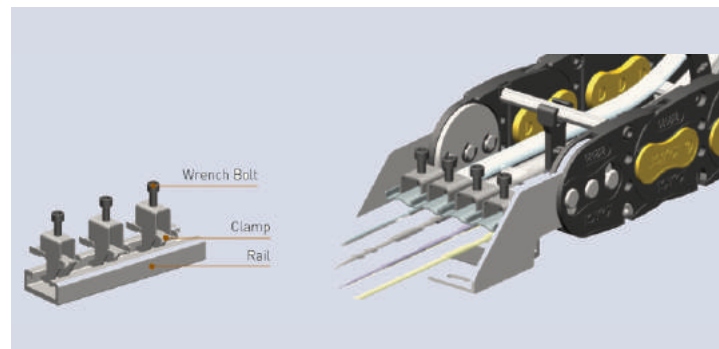
- Automatic welding machines, Automotives lines, Automatic lines and crane

- ロングストロークに最適。
- 高剛性により高荷重、ロングストロークに対応。
- グライディングスケートの採用で長寿命、スケート交換可能。
- 低騒音、低摩擦。・幅寸法は自由に設計可能。
- 専用ガイドチャネルの使用で更に長寿命を可能。

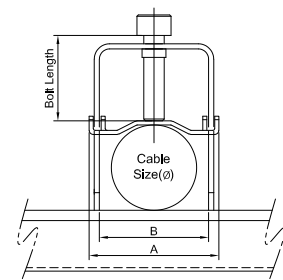
- 自動溶接装置、オートローダー、クレーン、自動車生産ラインなど。

Cable Binder ケーブルバインダー

KCB / Clamp Type

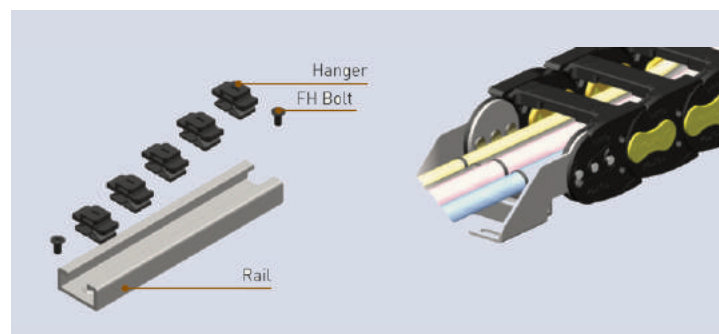


Clamp Type Bolt & Cable Size

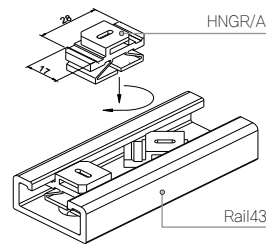


Clamp Type	Wrench Bolt L	Cable (ø)	A (mm)	B (mm)
KC1/A	M6X15L	13~17	24	17
KC1/B	M6X20L	10~12	24	17
KC2/A	M6X15L	22~24	30,4	24
KC2/B	M6X20L	18~21	30,4	24
KC3/B	M6X20L	29~32	38	32
KC3/C	M6X25L	25~28	38	32

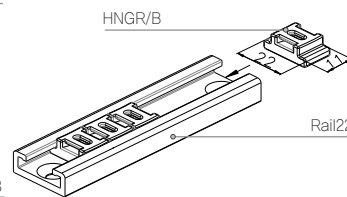
KCB / Hanger Type(A, B)



HNGR/A Type Ass'y



HNGR/B Type Ass'y



Hanger Maximum Q'ty : A Type

W80	W100	W120	W130	W200
4EA	6EA	7EA	9EA	11EA
W250	W300	W350	W400	
14EA	17EA	20EA	23EA	

Hanger Maximum Q'ty : B Type

W50	W65	W75	W80	W87	W100
3EA	4EA	5EA	5EA	6EA	7EA
W120	W150	W160	W175	W187	W200
9EA	11EA	12EA	14EA	14EA	15EA

Features

- By avoiding twist, separation and pull, It can string out cable's life time.
- Improved for quick assembly.
- Simple cable arrangement.
- ケーブルの絡みやねじれを防止し、断線を防ぐ。
- 機械の品実安定で生産性UP。
- ケーブルを一列に整列が可能。

Applications

- Machine tools, automation machines and etc.
- 工作機械、自動機、一般産業機械など。

Steel "S" Aluminum Bar Type スチールアルミバータイプ("S"タイプ)



Features

- It is made of very durable Aluminum Bars which are fixed with heat treated bolts.
- The light weight and user friendly installation
- Removing unnecessary parts of Link Plate lightens its weight up to 20%(CDK125/130/180)
- For superior strength and moisture environment to get rust easily, it can be made of stainless steel
- Improving sustainability and having plate curved by 1mm prevent it from being crooked, sagged due to the weight of cables and hoses(CDK125/130/180)

- 耐久性に優れるアルミ製クロスバー採用。
- ケーブル、ホースの設置がきわめて簡単。
- 錆が懸念される環境下でご使用される場合、ステンレス製も用意できます。
- リンクパーツの削減で20%軽量化を実現。
- サイドパーツにエンボス加工を施すことで強度を大幅にUP。
- 連結部品の一部をR加工することで支持性能が向上、ベント状態を防ぎ耐久性をUP。

Applications

- Crane, Heavy Industry, Iron and steel mill facility, plant facility, Cold stripping and Rolling facility, Machining center and most if industrial application
- クレーン、船舶機器、製鉄機械、冷延、熱延設備、大型工作機械、産業プラントなど。

Steel "H" Hole Type スチールホール加工タイプ("H"タイプ)



Features

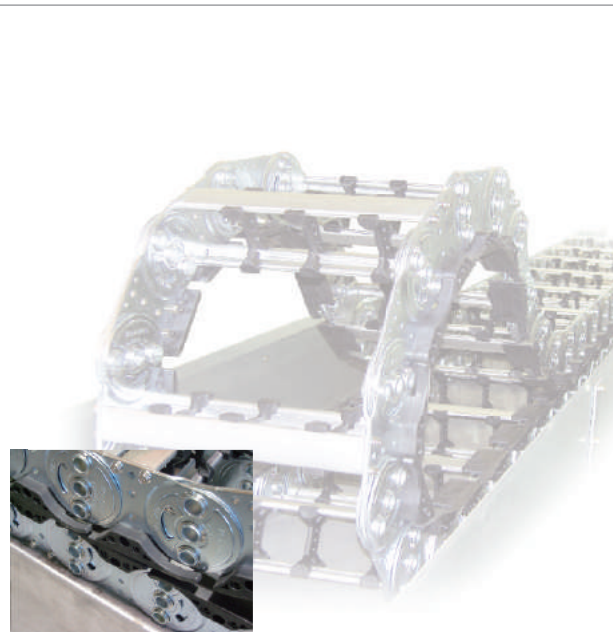
- It is made of very durable Aluminum supporters which are fixed with heat treated bolts.
- Special rubber rings on an Aluminum supporter prevent wear of cables and hoses.(to customize)
- Removing unnecessary parts of Link Plate lightens its weight up to 20%(CDK125/130/180)
- Setting hoses, cables in separate holes solves problems of strand, disconnection and transformation.
- Improving sustainability and having plate curved by 1mm prevent it from being crooked, sagged due to the weight of cables and hoses(CDK125/130/180)
- For superior strength and moisture environment to get rust easily, it can be made of stainless steel.

- 耐久性に優れるアルミ製サポーターを使用。
- 独立したホールを使用し配線するため、ケーブル、ホースの絡みがなく断線しにくい。
- 錆が懸念される環境下でご使用される場合、ステンレス製も用意できます。
- アルミサポーターのホールに保護リングを設置することもできます。
- リンクパーツの削減で20%軽量化を実現。
- サイドパーツにエンボス加工を施すことで強度を大幅にUP。
- 連結部品の一部をR加工することで支持能力が向上、ベント状態を防ぎ耐久性UP。

Applications

- Crane, Heavy Industry, Iron and steel mill facility, plant facility, Cold stripping and Rolling facility, Machining center and most if industrial application
- クレーン、船舶機器、製鉄機械、冷延、熱延設備、大型工作機械、産業プラントなど。

Long Distance Steel "S", "H" 長距離スチールタイプ("S", "H"タイプ)

CDKSL095 / CDKSL130
CDKHL095 / CDKHL130

○ Features

- Skates provide better operation with lower power and less noise
- The light weight and user friendly installation
- Removing unnecessary parts of Link Plate lightens its weight up to 20%(CDK125/130/180)
- For superior strength and moisture environment to get rust easily, it can be made of stainless steel
- To solve a problem of the gap between Link Plates, we install braces in specific part preventing them from being bent.(CDK070/095)
- Improving sustainability and having plate curved by 1mm prevent it from being crooked, sagged due to the weight of cables and hoses(CDK125/130/180)
- ロングストロークに最適。
- 高剛性により高荷重、ロングストロークに対応。
- グライディングスケートの採用で長寿命、スケート交換可能。
- 低騒音、低摩擦。幅寸法は自由に設計可能。
- 専用ガイドチャンネルの使用で更に長寿命を可能。
- 耐久性に優れたアルミ製クロスバー採用。
- ケーブル、ホースの設置がきわめて簡単。
- 錆が懸念される環境下でご利用される場合、ステンレス製も用意できます。
- リンクパーツの削減で20%軽量化を実現。
- サイドパーツにエンボス加工を施すことで強度を大幅にUP。
- 連結部品の一部をR加工することで支持性能が向上、ベント状態を防ぎ耐久性をUP。

○ Applications

- Crane, Heavy Industry, Iron and steel mill facility, plant facility, Cold stripping and Rolling facility, Machining center and most if industrial application
- クレーン、船舶機器、製鉄機械、冷延、熱延設備、大型工作機械、産業プラントなど。

Cable Track System ケーブルトラックシステム

Plastic Cable Track /
Steel Cable Track

- Operated by lower power.
- Classified cables into two cut down the half weight.
- Long operation life.
- Guarantee reduced cost in a long time
- Developed design and less dust for clean environment
- Manufacturing machine and Cable Carriage System separately dose not deliver and vibration.
- The length of operation time is more than twice compared to other types and maintenance is easy and simple.

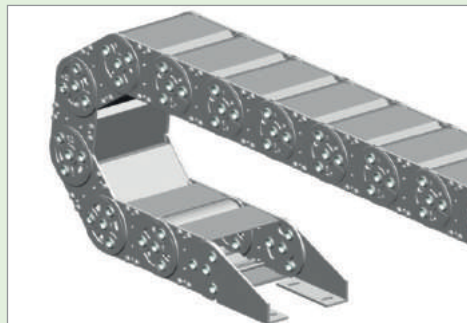
- 機械とケーブルトラックの完全分離です。パイプレーションがつかないです。
- 一般仕様より寿命の倍以上で整備が簡単です。
- 機械に無理な低動力でも動作できます。
- ケーブルを両方に備え付けて荷重の半分減少します。
- ケーブルの寿命が長くできます。
- 長期的にみるとコスト切り詰めに寄与します。
- 美観性に優れた粉塵が少なく環境に優しいです。

○ Applications

- Crane, Heavy Industry, Iron and steel mill facility, plant facility, Cold stripping and Rolling facility, Machining center and most if industrial application
- クレーン、船舶機器、製鉄機械、冷延、熱延設備、大型工作機械、産業プラントなど。

Steel Enclosed Type スチール全閉タイプ

Enclosed Type



○ Specification

TYPE	*W : Width / IH : Inside Height		
	W mm(inch)	Radius mm(inch)	IH mm(inch)
CDKSM095 CDKHM095	100~400 (3,937~15,748)	125(4,921)	43(1,693)
		145(5,709)	46(1,811)
		200(7,874)	48(1,890)
		250(9,843)	48(1,890)
CDKSM180 CDKHM180	300~700 (11,811~27,559)	300(11,811)	100(9,937)
		400(15,748)	105(4,134)
		500(19,685)	111(4,370)
		600(23,622)	113(4,449)
		700(27,599)	113(4,449)

1inch = 25,4m

Chipcover Type



○ Specification

TYPE	*CW : Chip Cover Width	
	W mm(inch)	CW mm(inch)
CDKS070 / CDKH070	60~300(2,362~11,811)	W-10(0,394)
CDKS095 / CDKH095	100~400(3,937~15,748)	W-10(0,394)
CDKS125 / CDKH125	100~400(3,937~15,748)	W-12(0,472)
CDKS130 / CDKH130	100~400(3,937~15,748)	W-12(0,472)
CDKS180 / CDKH180	300~600(11,811~23,622)	W-12(0,472)
CDKS250 / CDKH250	300~600(11,811~23,622)	W-12(0,472)

1inch = 25,4m

Calmly Flex カムリーフレックス



KCF1115 / KCF120

KCF115

TYPE	Radius (mm)	Pitch (mm)	Height (mm)
KCF115	100	25	273,3
	140		353,4
	225		523
	300		673

○ End bracket



FA Type



FC Type

KCF120

TYPE	Radius (mm)	Pitch (mm)	Height (mm)
KCF120	150	25	391,8
	200		491,9
	225		541,9
	300		692,1

○ End bracket



FA Type



FB Type

Flexible Tube フレキシブルチューブ



Flexible tube is made of Polyamide 6. It is excellent for self extinguishing and eco-friendly.

(Hazardous substances are not detected based on RoHS)

ポリアミド6素材で熱によく耐え環境に優しい製品

(RoHSの結果有害物が発見されていません)



It is simple to cut Flexible tube and adjust lengths conveniently.

切断しやすく長さの調節が容易



Improved flexibility and superior durability.

優れた耐久性や復元力や類縁性

How to assemble connectors and flexible tubes

コンネクター・フレキシブルホース組み立て方



① Push into connector completely
チューブとコンネクターを連結させる。



② Check the body and ring is fixed
コンネクターのピンがしっかり閉めているのを確認する。

How to disassemble connectors and flexible tubes

コンネクター・フレキシブル分解し方



① Push the pin.
コンネクターのピンを引いて開ける。

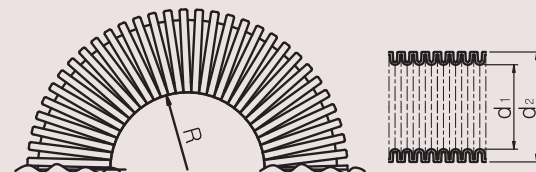


② Pull out the tube to disassemble
チューブとコンネクターを分離させる。

Order form

KF-10/B-1ROLL

- Color
- Size
- Type



KF Type



Product No.		(d1) Inner Diameter ±0.5	(d2) Outer Diameter ±0.5	Bending radius ±10%	Packing standard
Black	Gray				1Roll
KF-07/B	KF-07/G	6.3 (0.248)	10 (0.394)	15 (0.591)	50M
KF-10/B	KF-10/G	9.6 (0.378)	13 (0.512)	20 (0.787)	50M
KF-12/B	KF-12/G	12 (0.472)	15.8 (0.622)	30 (1.181)	50M
KF-16/B	KF-16/G	16 (0.630)	21.2 (0.835)	40 (1.575)	50M
KF-22/B	KF-22/G	21.9 (0.862)	28.5 (1.122)	45 (1.772)	50M
KF-28/B	KF-28/G	27.8 (1.094)	34.5 (1.358)	50 (1.969)	50M
KF-36/B	KF-36/G	36 (1.417)	42.5 (1.673)	60 (2.362)	30M
KF-48/B	KF-48/G	46.7 (1.839)	54.5 (2.146)	70 (2.756)	30M

- Material : Polyamide 6 (PA 6)
- Temperature Range : -40°C ~ +105°C (Short term 150°C)
- Protective : IP67acc
- Applications : Automotive lines, Machine tools, Industrial machines, Automation machines, Shipbuilding Yard
- Color : Black, Gray (possible to order with various color what you need)

KFN Type (難燃, Excellent for self-extinguishing)



Product No.			(d1) Inner Diameter ±0.5	(d2) Outer Diameter ±0.5	Bending radius ±10%	Packing standard
Black	Gray	Light Gray				1Roll
KFN-07/B	KFN-07/G	KF-07/LG	6.3 (0.248)	10 (0.394)	15 (0.591)	50M
KFN-10/B	KFN-10/G	KF-10/LG	9.6 (0.378)	13 (0.512)	20 (0.787)	50M
KFN-12/B	KFN-12/G	KF-12/LG	12 (0.492)	15.8 (0.622)	30 (1.181)	50M
KFN-16/B	KFN-16/G	KF-16/LG	16 (0.630)	21.2 (0.835)	40 (1.575)	50M
KFN-22/B	KFN-22/G	KF-22/LG	21.9 (0.862)	28.5 (1.122)	45 (1.772)	50M
KFN-28/B	KFN-28/G	KF-28/LG	27.8 (1.094)	34.5 (1.358)	50 (1.969)	50M
KFN-36/B	KFN-36/G	KF-36/LG	36 (1.417)	42.5 (1.673)	60 (2.362)	30M
KFN-48/B	KFN-48/G	KF-48/LG	46.7 (1.839)	54.5 (2.146)	70 (2.756)	30M

- Material : Polyamide 6+α (PA 6+α)
- Temperature Range : -50°C ~ +115°C (Short term 160°C)
- Protective : IP67acc
- Self Extinguishing : VO-V1
- Applications : Automotive lines, Machine tools, Industrial machines, Automation machines, Shipbuilding Yard
- Color : Black, Dark Gray, Gray, Light Gray (possible to order with various color what you need)

Flexible Tube フレキシブルチューブ

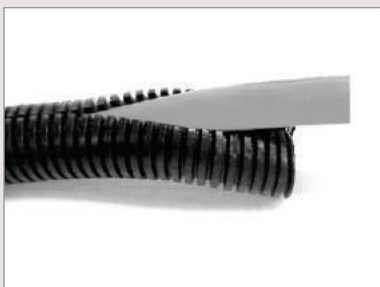
KFPP Type



Product No.		(d1) Inner Diameter ±0.5	(d2) Outer Diameter ±0.5	Bending radius ±10%	Packing standard
Black	Gray				1Roll
KFPP-07/B	KFPP-07/G	6.3 (0.248)	10 (0.394)	15 (0.591)	50M
KFPP-10/B	KFPP-10/G	9.6 (0.378)	13 (0.512)	20 (0.787)	50M
KFPP-12/B	KFPP-12/G	12 (0.472)	15.8 (0.622)	30 (1.181)	50M
KFPP-16/B	KFPP-16/G	16 (0.630)	21.2 (0.835)	40 (1.575)	50M
KFPP-22/B	KFPP-22/G	21.9 (0.862)	28.5 (1.122)	45 (1.772)	50M
KFPP-28/B	KFPP-28/G	27.8 (1.094)	34.5 (1.358)	50 (1.969)	50M
KFPP-36/B	KFPP-36/G	36 (1.417)	42.5 (1.673)	60 (2.362)	30M
KFPP-48/B	KFPP-48/G	46.7 (1.839)	54.5 (2.146)	70 (2.756)	30M

- Material : Polypropylene (PP)
- Temperature Range : -15°C ~ +60°C (Short term 80°C)
- Protective : IP67acc
- Applications : Automation machines, Machine tools, Industrial machines, Chemical machines
- Color : Black, Gray (possible to order with various color what you need)

KFH Type



Product No.		(d1) Inner Diameter ±0.5	(d2) Outer Diameter ±0.5	Bending radius ±10%	Packing standard
Black	Gray				1Roll
KFH-07/B	KFH-07/G	6.3 (0.248)	10 (0.394)	15 (0.591)	50M
KFH-10/B	KFH-10/G	9.6 (0.378)	13 (0.512)	20 (0.787)	50M
KFH-12/B	KFH-12/G	12 (0.472)	15.8 (0.622)	30 (1.181)	50M
KFH-16/B	KFH-16/G	16 (0.630)	21.2 (0.835)	40 (1.575)	50M
KFH-22/B	KFH-22/G	21.9 (0.862)	28.5 (1.122)	45 (1.772)	50M
KFH-28/B	KFH-28/G	27.8 (1.094)	34.5 (1.358)	50 (1.969)	50M
KFH-36/B	KFH-36/G	36 (1.417)	42.5 (1.673)	60 (2.362)	30M
KFH-48/B	KFH-48/G	46.7 (1.839)	54.5 (2.146)	70 (2.756)	30M

- Material : Polyamide 6 (PA 6)
- Temperature Range : -40°C ~ +105°C (Short term 150°C)
- Protective : IP67acc
- Applications : Automotive wiring, Machine tools, Automation machines
- Color : Black, Gray (possible to order with various color what you need)
- " H" type is for open, it is easy to install.

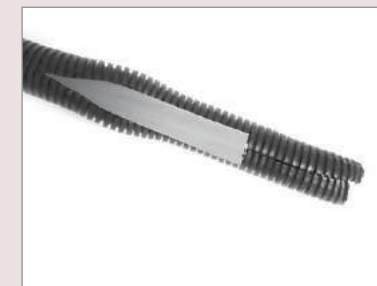
KFNH Type (難燃, Excellent for self-extinguishing)



Product No.			(d1) Inner Diameter ±0.5	(d2) Outer Diameter ±0.5	Bending radius ±10%	Packing standard
Black	Gray	Light Gray				1Roll
KFNH-07/B	KFNH-07/G	KFNH-07/LG	6.3 (0.248)	10 (0.394)	15 (0.591)	50M
KFNH-10/B	KFNH-10/G	KFNH-10/LG	9.6 (0.378)	13 (0.512)	20 (0.787)	50M
KFNH-12/B	KFNH-12/G	KFNH-12/LG	12 (0.472)	15.8 (0.622)	30 (1.181)	50M
KFNH-16/B	KFNH-16/G	KFNH-16/LG	16 (0.630)	21.2 (0.835)	40 (1.575)	50M
KFNH-22/B	KFNH-22/G	KFNH-22/LG	21.9 (0.862)	28.5 (1.122)	45 (1.772)	50M
KFNH-28/B	KFNH-28/G	KFNH-28/LG	27.8 (1.094)	34.5 (1.358)	50 (1.969)	50M
KFNH-36/B	KFNH-36/G	KFNH-36/LG	36 (1.417)	42.5 (1.673)	60 (2.362)	30M
KFNH-48/B	KFNH-48/G	KFNH-48/LG	46.7 (1.839)	54.5 (2.146)	70 (2.756)	30M

- Material : Polyamide 6+α (PA 6+α)
- Temperature Range : -50°C ~ +115°C (Short term 160°C)
- Protective : IP67acc
- Self Extinguishing : VO-V1
- Applications : Automotive wiring, Machine tools, Automation machines
- Color : Black, Gray, Light Gray (possible to order with various color what you need)
- " H" type is for open, it is easy to install.

KFPH Type



Product No.		(d1) Inner Diameter ±0.5	(d2) Outer Diameter ±0.5	Bending radius ±10%	Packing standard
Black	Gray				1Roll
KFPH-07/B	KFPH-07/G	6.3 (0.248)	10 (0.394)	15 (0.591)	50M
KFPH-10/B	KFPH-10/G	9.6 (0.378)	13 (0.512)	20 (0.787)	50M
KFPH-12/B	KFPH-12/G	12 (0.472)	15.8 (0.622)	30 (1.181)	50M
KFPH-16/B	KFPH-16/G	16 (0.630)	21.2 (0.835)	40 (1.575)	50M
KFPH-22/B	KFPH-22/G	21.9 (0.862)	28.5 (1.122)	45 (1.772)	50M
KFPH-28/B	KFPH-28/G	27.8 (1.094)	34.5 (1.358)	50 (1.969)	50M
KFPH-36/B	KFPH-36/G	36 (1.417)	42.5 (1.673)	60 (2.362)	30M
KFPH-48/B	KFPH-48/G	46.7 (1.839)	54.5 (2.146)	70 (2.756)	30M

- Material : Polypropylene (PP)
- Temperature Range : -15°C ~ +60°C (Short term 80°C)
- Protective : IP67acc
- Applications : Automotive wiring, Machine tools, Automation machines
- Color : Black, Gray (possible to order with various color what you need)
- " H" type is for open, it is easy to install.

Connector コネクター

Order form

KCS10-G10/B-1EA



KCS Type



- Material : Polyamide 6 (PA 6)
- Temperature Range : -40°C ~ +125°C
- Protective : IP67acc
- Applications : Automation machines, Machine tools, Industrial machines, Chemical machines
- Color : Black, Gray, Light Gray (possible to order with various color what you need)

PF Thread

mm(inch)

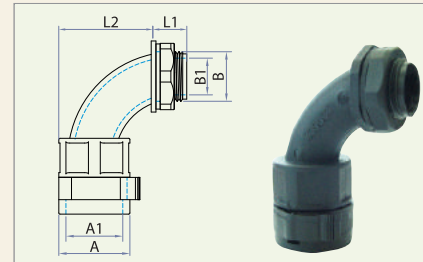
Product No.			Thread	L1	L2	A	A1	B	B1	Applicable tube
Black	Gray	Light Gray								
KCS10-G10B	KCS10-G10G	KCS10-G10LG	G1/2"	13 (0.512)	26 (1.024)	22 (0.866)	13.5 (0.532)	20.9 (0.823)	13 (0.512)	10
KCS12-G12B	KCS12-G12G	KCS12-G12LG	G1/2"	13 (0.512)	29 (1.142)	26 (1.024)	17 (0.669)	20.9 (0.823)	15 (0.591)	12
KCS16-G16B	KCS16-G16G	KCS16-G16LG	G1/2"	13 (0.512)	32 (1.260)	30 (1.181)	22 (0.866)	20.9 (0.823)	15 (0.591)	16
KCS22-G22B	KCS22-G22G	KCS22-G22LG	G3/4"	15 (0.591)	34 (1.339)	40 (1.575)	29.5 (1.161)	26.4 (1.039)	20 (0.787)	22
KCS28-G28B	KCS28-G28G	KCS28-G28LG	G1"	15 (0.591)	37 (1.457)	46 (1.811)	35 (1.378)	33.2 (1.307)	27 (1.063)	28
KCS36-G36B	KCS36-G36G	KCS36-G36LG	G1 1/4"	19 (0.748)	43 (1.693)	55.5 (2.185)	43 (1.693)	41.9 (1.65)	37 (1.457)	36
KCS48-G42B	KCS48-G42G	KCS48-G42LG	G1 1/2"	19 (0.748)	48 (1.890)	67.5 (2.657)	55 (2.165)	47.2 (1.858)	41 (1.614)	48
KCS48-G48B	KCS48-G48G	KCS48-G48LG	G2"	19 (0.748)	48 (1.890)	67.5 (2.657)	55 (2.165)	59.5 (2.343)	54 (2.126)	48

PG Thread

mm(inch)

Product No.			Thread	L1	L2	A	A1	B	B1	Applicable tube
Black	Gray	Light Gray								
KCS07-P077/B	KCS07-P077/G	KCS07-P077/LG	PG07	13(0.433)	24(0.945)	21(0.827)	12.8(0.504)	12.5(0.492)	8.8(0.346)	7
KCS07-P097/B	KCS07-P097/G	KCS07-P097/LG	PG09	13(0.512)	24(0.945)	21(0.827)	12.8(0.504)	15.2(0.598)	8.8(0.346)	7
KCS07-P117/B	KCS07-P117/G	KCS07-P117/LG	PG11	13(0.512)	24(0.945)	21(0.827)	12.8(0.504)	18.6(0.732)	8.8(0.346)	7
KCS07-P137/B	KCS07-P137/G	KCS07-P137/LG	PG13.5	13(0.512)	24(0.945)	21(0.827)	12.8(0.504)	20.4(0.803)	8.8(0.346)	7
KCS10-P070/B	KCS10-P070/G	KCS10-P070/LG	PG07	13(0.512)	27.5(1.083)	24(0.945)	15.4(0.606)	12.5(0.823)	8.8(0.346)	10
KCS10-P09/B	KCS10-P09/G	KCS10-P09/LG	PG09	13(0.512)	27.5(1.083)	24(0.945)	15.4(0.606)	15.2(0.598)	11.5(0.453)	10
KCS10-P110/B	KCS10-P110/G	KCS10-P110/LG	PG11	13(0.512)	27.5(1.083)	24(0.945)	15.4(0.606)	18.6(0.732)	11.5(0.453)	10
KCS10-P130/B	KCS10-P130/G	KCS10-P130/LG	PG13.5	13(0.512)	27.5(1.083)	24(0.945)	15.4(0.606)	20.4(0.803)	11.5(0.453)	10
KCS10-P160/B	KCS10-P160/G	KCS10-P160/LG	PG16	13(0.512)	27.5(1.083)	24(0.945)	15.4(0.606)	22.5(0.886)	11.5(0.453)	10
KCS12-P0912/B	KCS12-P0912/G	KCS12-P0912/LG	PG09	13(0.512)	29(1.142)	28(1.102)	19.3(0.760)	15.2(0.823)	11.5(0.453)	12
KCS12-P11/B	KCS12-P11/G	KCS12-P11/LG	PG11	13(0.512)	29(1.142)	28(1.102)	19.3(0.760)	18.6(0.732)	12(0.472)	12
KCS12-P132/B	KCS12-P132/G	KCS12-P132/LG	PG13.5	13(0.512)	29(1.142)	28(1.102)	19.3(0.760)	20.4(0.803)	12(0.472)	12
KCS12-P162/B	KCS12-P162/G	KCS12-P162/LG	PG16	13(0.512)	29(1.142)	28(1.102)	19.3(0.760)	22.5(0.886)	14.5(0.571)	12
KCS16-P136/B	KCS16-P136/G	KCS16-P136/LG	PG13.5	13(0.512)	32(1.260)	33(1.299)	24.3(0.957)	20.4(0.823)	16(0.630)	16
KCS16-P16/B	KCS16-P16/G	KCS16-P16/LG	PG16	13(0.512)	32(1.260)	33(1.299)	24.3(0.957)	22.5(0.886)	16(0.630)	16
KCS16-P216/B	KCS16-P216/G	KCS16-P216/LG	PG21	13(0.512)	32(1.260)	33(1.299)	24.3(0.957)	28.3(1.114)	16(0.630)	16
KCS22-P163/B	KCS22-P163/G	KCS22-P163/LG	PG16	13(0.512)	37(1.457)	42(1.654)	31.8(1.252)	22.5(1.039)	18(0.709)	22
KCS22-P21/B	KCS22-P21/G	KCS22-P21/LG	PG21	13(0.591)	37(1.457)	42(1.654)	31.8(1.252)	28.3(1.114)	23(0.905)	22
KCS28-P29/B	KCS28-P29/G	KCS28-P29/LG	PG29	15(0.591)	37(1.457)	46(1.811)	35(1.378)	37(1.307)	30.5(1.201)	28
KCS36-P36/B	KCS36-P36/G	KCS36-P36/LG	PG36	19(0.748)	43(1.693)	55.5(2.185)	43(1.693)	47(1.650)	39(1.535)	36
KCS48-P48/B	KCS48-P48/G	KCS48-P48/LG	PG48	21(0.827)	48(1.890)	67.5(2.657)	55(2.165)	59.3(2.343)	52.5(2.067)	48

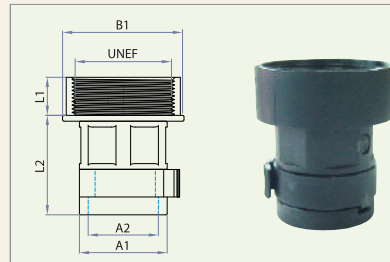
KCE Type



- Material : Polyamide 6 (PA 6)
- Temperature Range : -40°C ~ +125°C
- Protective : IP67acc
- Applications : Automation machines, Machine tools, Industrial machines, Chemical machines
- Color : Black, Gray, Light Gray (possible to order with various color what you need)

Order no.			Thread	L1	L2	A	A1	B	B1	Applicable tube	1BOX Packing standard
Black	Gray	Light Gray									
KCE-G10/B	KCE-G10/G	KCE-G10/LG	G1/2"	13 (0.512)	28 (1.102)	22 (0.866)	13.5 (0.532)	20.9 (0.823)	11 (0.433)	10	80ea
KCE-G12/B	KCE-G12/G	KCE-G12/LG	G1/2"	13 (0.512)	36.5 (1.437)	26 (1.024)	17 (0.669)	20.9 (0.823)	14 (0.551)	12	50ea
KCE-G16/B	KCE-G16/G	KCE-G16/LG	G1/2"	13 (0.512)	41 (1.614)	30 (1.181)	22 (0.866)	20.9 (0.823)	16 (0.63)	16	40ea
KCE-G22/B	KCE-G22/G	KCE-G22/LG	G3/4"	15 (0.591)	49.5 (1.949)	40 (1.575)	29.5 (1.161)	26.4 (1.039)	20.6 (0.811)	22	20ea
KCE-G28/B	KCE-G28/G	KCE-G28/LG	G1"	15 (0.591)	59.5 (2.343)	46 (1.811)	35 (1.378)	33.2 (1.307)	27 (1.063)	28	10ea
KCE-G36/B	KCE-G36/G	KCE-G36/LG	G1 1/4"	19 (0.748)	76 (2.992)	55.5 (2.185)	43 (1.693)	41.9 (1.65)	35 (1.378)	36	6ea
KCE-G42/B	KCE-G42G	KCE-G42LG	G1 1/2"	19 (0.748)	91 (3.583)	67.5 (2.657)	55 (2.165)	47.2 (1.858)	41 (1.614)	48	4ea
KCE-G48/B	KCE-G48/G	KCE-G48/LG	G2"	19 (0.748)	91 (3.583)	67.5 (2.657)	55 (2.165)	59.5 (2.343)	49.7 (1.957)	48	4ea

KCM Type

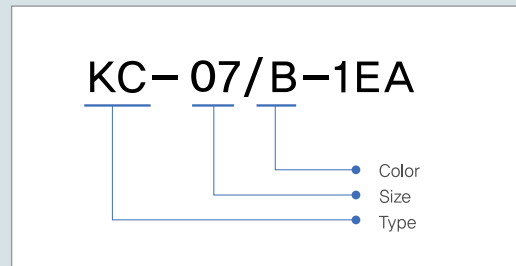


- Material : Polyamide 6 (PA 6)
- Temperature Range : -40°C ~ +125°C
- Protective : IP67acc
- Applications : Automation machines, Machine tools, Industrial machines, Chemical machines
- Color : Black, Gray (possible to order with various color what you need)
- Features : Can be use for MS cannon plug (MS connector) joint connector.
- Anti flexibility and superior durability.

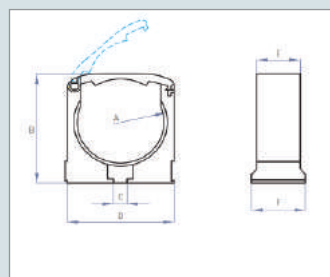
Product No.		Screw Thread (UNEF)	Thread	L1	L2	A2	A1	B1	Applicable tube	1BOX Packing standard
BLACK	GRAY									
KCM1616B	KCM1616G	7/8-20UNEF	16,16S	15 (0.59)	30 (1.18)	30 (1.18)	22 (0.87)	26 (1.02)	16 (0.63)	70ea
KCM1618B	KCM1618G	1-20UNEF	18	15 (0.59)	30 (1.18)	30 (1.18)	22 (0.87)	29.4 (1.16)	16 (0.63)	70ea
KCM1620B	KCM1620G	1 3/16-18UNEF	20,22	15 (0.59)	30 (1.18)	30 (1.18)	22 (0.87)	34 (1.33)	16 (0.63)	70ea
KCM1628B	KCM1628G	1 7/16-18UNEF	24,28	15 (0.59)	30 (1.18)	30 (1.18)	22 (0.87)	40.5 (1.60)	16 (0.63)	60ea
KCM2222B	KCM2222G	1 3/16-18UNEF	20,22	17 (0.67)	32 (1.26)	40 (1.57)	29.5 (1.16)	34.5 (1.36)	22 (0.87)	30ea
KCM2228B	KCM2228G	1 7/16-18UNEF	24,28	17 (0.67)	32 (1.26)	40 (1.57)	29.5 (1.16)	40.5 (1.60)	22 (0.87)	30ea
KCM2828B	KCM2828G	1 7/16-18UNEF	24,28	17 (0.67)	37 (1.46)	46 (1.81)	35 (1.38)	40.5 (1.60)	28 (1.10)	25ea
KCM2832B	KCM2832G	1 3/4-18UNEF	32	17 (0.67)	35 (1.38)	46 (1.81)	35 (1.38)	48.5 (1.91)	28 (1.10)	24ea
KCM3636B	KCM3636G	2-18UNS	36	17 (0.67)	35 (1.38)	55.5 (2.19)	43.5 (1.71)	55.8 (2.20)	36 (1.42)	15ea

Clamp クランプ

Order form



KC Type

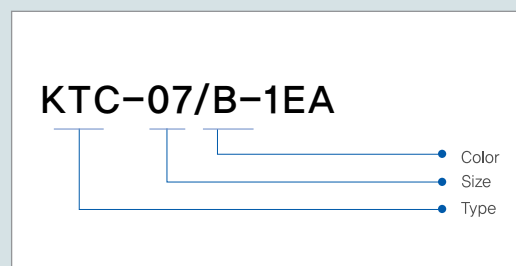


Product No.			mm(inch)					
Black	Gray	Light Gray	A	B	C	D	E	F
KC-07/B	KC-07/G	KC-07/LG	10 (0.394)	20 (0.787)	4 (0.157)	17 (0.669)	16 (0.63)	20 (0.787)
KC-10/B	KC-10/G	KC-10/LG	13.2 (0.52)	20 (0.787)	4 (0.157)	20 (0.787)	16 (0.63)	20 (0.787)
KC-12/B	KC-12/G	KC-12/LG	16.2 (0.638)	26 (1.024)	5 (0.197)	22 (0.866)	16 (0.63)	20 (0.787)
KC-16/B	KC-16/G	KC-16/LG	21.7 (0.854)	33 (1.299)	5 (0.197)	25 (0.984)	16 (0.63)	20 (0.787)
KC-22/B	KC-22/G	KC-22/LG	29.2 (1.15)	40 (1.75)	6 (0.236)	35 (1.378)	16 (0.63)	20 (0.787)
KC-28/B	KC-28/G	KC-28/LG	35 (1.378)	46 (1.811)	6 (0.236)	40 (1.575)	20 (0.787)	25 (0.984)
KC-36/B	KC-36/G	KC-36/LG	43.2 (1.701)	54 (2.126)	6 (0.236)	50 (1.969)	20 (0.787)	25 (0.984)
KC-48/B	KC-48/G	KC-48/LG	54.8 (2.157)	67 (2.638)	6 (0.236)	65 (2.5)	20 (0.787)	25 (0.984)

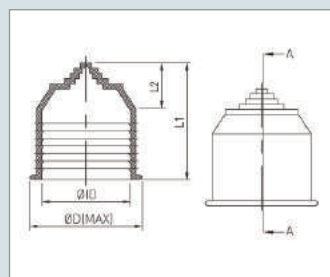
Material : Polyamide 6 (PA 6) · Temperature Range : -40°C ~ +125°C · Applications : It is for Fixing Flexible tube and cables with Automation machines, Machine tools, Industrial machines, Chemical machines · Color : Black, Gray, Light Gray (possible to order with various color what you need)

FLEXIBLE TUBE END CAP

Order form



KTC Type

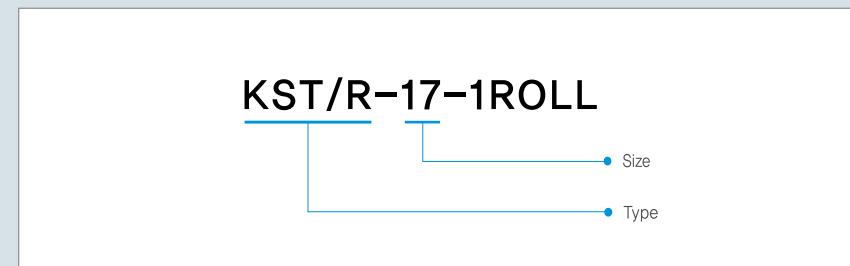


Product No.		ID	D	L1	L2	Applicable tube	Packing Standard 1Box/EA
Black	Gray						
KTC-07/B	KTC-07/G	10(0.39)	16.9(0.67)	28.3(1.11)	8.8(0.35)	7	150
KTC-10/B	KTC-10/G	13(0.51)	20.2(0.8)	32(1.26)	10.8(0.43)	10	100
KTC-12/B	KTC-12/G	16(0.63)	25(0.98)	35(1.38)	15(0.59)	12	200
KTC-16/B	KTC-16/G	21.5(0.85)	29.5(1.16)	35(1.38)	12.5(0.49)	16	120
KTC-22/B	KTC-22/G	29(1.14)	37(1.46)	39(1.54)	12.2(0.48)	22	70
KTC-28/B	KTC-28/G	34.5(1.36)	44(1.73)	41(1.61)	14.2(0.56)	28	50
KTC-36/B	KTC-36/G	43(1.69)	54(2.13)	57(2.24)	22(0.87)	36	20
KTC-48/B	KTC-48/G	54.5(2.15)	64(2.52)	57(2.24)	22(0.87)	48	15

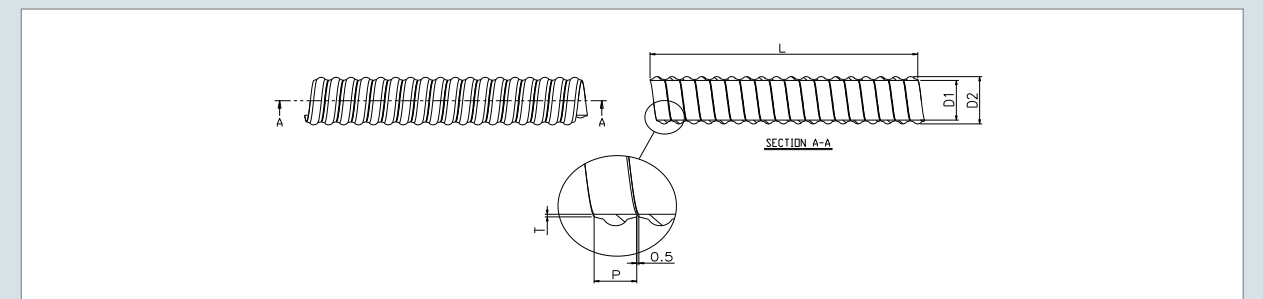
Material : N.B.R (Nitrile butadiene Rubber) · Properties : Tubeterminal, assembled by just putting on · Color : Black & Gray · For tube type : corrugated tubes

Spring Tube スプリングチューブ

Order form



KST/R Type

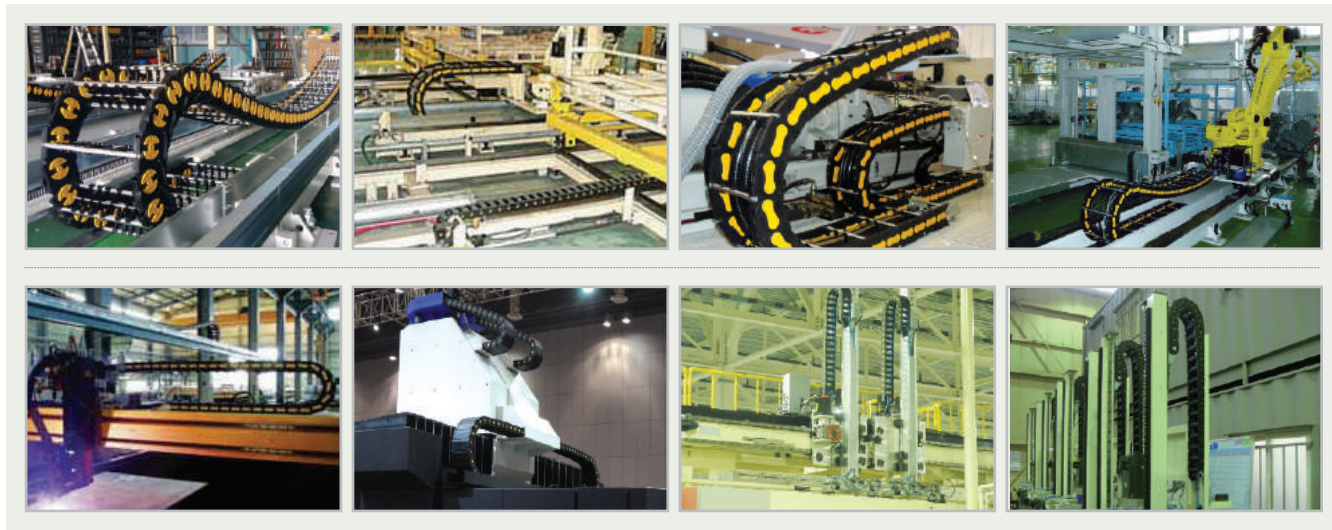


Type	D1 mm	D2 mm	P mm	T mm	Packing Standard 1ROLL	Weight (1M/kg)
KST/R-12	12.2	18	18.5	1	3M	0.08
KST/R-14	14.6	20.5	18.6	1	3M	0.09
KST/R-15	15	21	19	1	3M	0.09
KST/R-16	16	22.5	20.3	1.1	3M	0.10
KST/R-17	17.5	24	20	1.1	3M	0.11
KST/R-19	20	27	20.7	1.1	3M	0.12
KST/R-22	22	30	20	1.2	3M	0.14
KST/R-24	24	31	19.3	1.2	3M	0.15
KST/R-26	26	33	21	1.25	3M	0.16
KST/R-28	28.5	35.3	21.8	1.25	3M	0.17
KST/R-30	30	36.5	21	1.3	3M	0.19
KST/R-32	32	39	20.5	1.4	3M	0.23
KST/R-36	37.5	44.5	21.8	1.5	3M	0.26
KST/R-38	43.6	52.5	24.6	1.5	3M	0.35
KST/R-45	45	54	25.3	1.75	3M	0.43
KST/R-55	53.5	63	26.6	2	3M	0.60
KST/R-65	63.8	74	28.6	2	3M	0.71

Material : HDPE · Color : Black

Plastic Cable Carrier Application

Application



Steel Cable Carrier Application

Application



Customer

