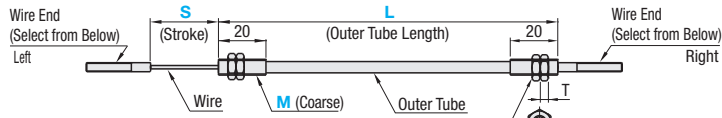


Link Cable / Wire



CWP Link Cable

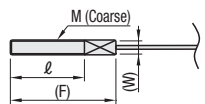


CWW Link Wire



Wire End Selection

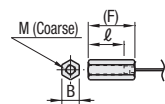
M: Threaded Type



No.	M	Pitch	(F)	l	(W)
03	3	0.5	20	10	2.5
04	4	0.7	25	15	3.5
05	5	0.8	30	20	4.5

Material: EN 1.4305 Equiv.
Included Nut, 1 pc. (JIS Class 3): EN 1.4301 Equiv.

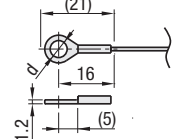
N: Tapped Type



No.	M	Pitch	(F)	l	B
03	3	0.5	20	10	5.5
04	4	0.7	25	15	7
05	5	0.8	30	20	8

Material: EN 1.4305 Equiv.

P: Ring



No.	M	Pitch	(F)	l	B
03	3	0.5	20	10	5.5
04	4	0.7	25	15	7
05	5	0.8	30	20	8

Material: EN 1.4301 Equiv.

Operating Temperature Applicable: -25 to +80°C
Material: Wire Outer End (Threaded): EN 1.4301 Equiv.
Included Nut 4 pcs: (JIS Class 3): EN 1.4301 Equiv.
Outer Tube (Sheath): PVC (Black)
Internal Liner: PE
Inner Core Rod: Copper for Screw

Link Cable

Part Number		Wire End No. Selection				S (Stroke) 10 mm Increment	L (Outer Length) 10 mm Increment	Wire Dia. (Ø)	Outer Diameter (Ø)	Outer End M (Coarse)	Included Nut B T		Max. Operating Force N (kgf)	Minimum Bending Radius R
Type	No.	Left		Right										
CWP	0.7	M N P	03 04 05	M N P	03 04 05	40~500	200~3000	0.75	5	M5	8	3.2	294[30]	75
	40~500					200~3000	1.2	5	M6	10	3.6	706[72]		
	40~500					300~3000	2.0	6	M8	13	5	1878[192]	100	

Link Wire

Part Number		Wire End No. Selection		L 10mm Increment		Wire Dia. (Ø)	Max. Operating Force N (kgf)	Minimum Bending Radius R	
Type	No.	Left		Right					
CWW	0.7	M N P	03	M N P	03	40~5000	0.75	294[30]	20
	1.2		04		04	40~5000	1.2	706[72]	32
	2.0		05		05	40~5000	2.0	1878[192]	52



Ordering Example

Part Number	Wire End	Stroke	Outer Length Wire Length
CWP0.7	M03 - N03	S40	1000
CWW1.2	P04 - N04		1200

Durability & Replacement Cycle <Reference Value>

Wire Dia. d	Safety Factor	Max.	60%	30%	10%
	Pull Count	0.1 Million Times	0.3 Million Times	0.5 Million Times	1 Million Times
0.7	Operating Force N[kgf]	294 [30]	176 [18]	88 [9]	29 [3]
1.2		706 [72]	424 [43]	212 [22]	71 [7]
2.0		1878 [192]	1127 [115]	563 [58]	188 [19]

*When wiring the pulley, durability degrades depending on the pulley specifications.

Wire Specifications & Elongation <Reference Value>

Wire Dia. d	Wire Structure (Twisted)	When used at the maximum operating force			
		Applied Load	Total Elongation	Elastic Elongation	Permanent Elongation
0.7	Multi-twisted (7x19)	294N	1.17%	1.13%	0.04%
1.2		706N	1.13%	1.09%	0.03%
2.0		1878N	1.13%	1.08%	0.05%

Features of Link Cable

Generally called PULL cable - a control cable that can perform complex power transmissions to the device installed far away by transmitting the pull force and displacement, using together with various connecting parts.

Originally designed as the internal components of the automobiles - the power transmission component with the characteristics of "lightweight", "direct feel", "assembly", "vibration damping & sound proofing", and "safety".

<Flexible Design/Assembly> Without requiring the joint mechanism of the intermediate area, all you need is a gap in the outer diameter to connect the drive component and the operating unit three-dimensionally.

<Quake Resistance & Sound Proofing> Less rigid compared to the mechanical rod type and excels in sound dampening and vibration insulation.

<Space Saving> Flexible placement of drive components and operating unit allows you to make the unit compact.

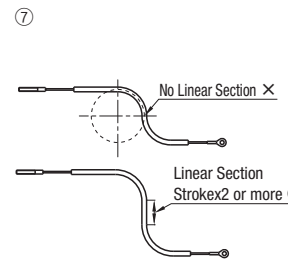
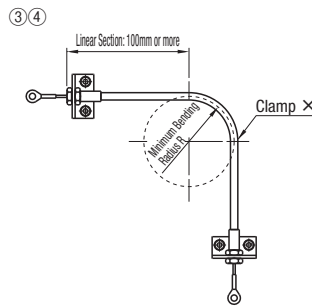
<Reliability> Highly reliable as you can directly connect the operating unit and the drive components mechanically.

<Economical> Simpler structure compared to the other connecting mechanism. Fewer assembly tasks required and easy to wire.

Cautions on Designing/Using Link Cables

- Use it within the load capacity of the maximum operating force.
- To avoid loosening, make sure to secure the area where the outer tube is attached. (Depending on your situation, order the alterations of the mounting bracket and use them accordingly.)
- When you bend the cable for wiring, keep at least 100 mm straight to avoid creating a bending angle on the threaded area of both ends of the outer tube.
Do not clamp the bending area of the outer tube. (It could degrade the durability.)
- Wire the cable to make the bending angle to be above the minimum bending radius R.
- Keep the bending minimum when you wire the cable.
- If you have to extend the wiring, secure the outer tube where appropriate to prevent the outer tube from moving broadly during operations.
- To wire the cable in S-shaped form, provide a linear part that is at least twice the stroke. Failure to do so will degrade the operating force by half.
- Cautions on Using Link Wire

If you use the wire with a pulley, the outer diameter of the pulley must be longer than those shown in the below table. Durability varies depending on the operation speed or the load weight.

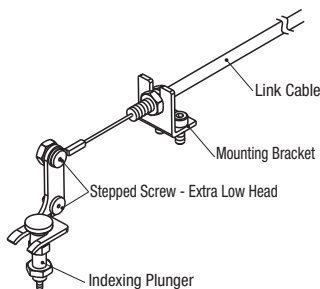


No.	Wire Dia.	Pulley Dia.
0.7	0.75	20
1.2	1.2	32
2.0	2.0	52

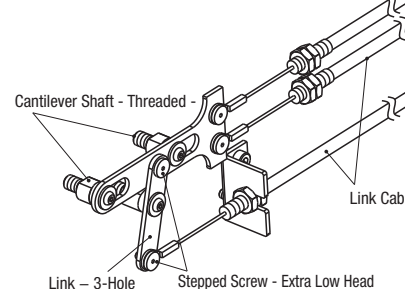


Example

Remote Controlling of Indexing Plunger



1-Input / 2-Output Mechanism



Link Cable

Part Number	Wire End	Unit Price
Type No.	Left/Right Combination	L-500 ~1000 ~2000 ~3000
CWP	0.7	PP MP NP MM MN NN
	1.2	PP MP NP MM MN NN
	2.0	PP MP NP MM MN NN

Link Wire

Part Number	Wire End	Unit Price
Type No.	Left/Right Combination	L-500 ~1000 ~3000 ~5000
CWW	0.7	PP MP NP MM MN NN
	1.2	PP MP NP MM MN NN
	2.0	PP MP NP MM MN NN



Alterations



Part Number	Wire End	Stroke	Outer Length	(BL-WBL)
CWP0.7	M03 - N04	S40	1000	BL

Alteration	Bracket Included
Spec.	 Shipped with the mounting brackets and screws included. Bolt: SCB4-10, 2 pcs. Applicable to CWP Material: EN 1.4301 Equiv.
Code	BL (1 pc.) WBL (2 pcs.)