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[HOME](#) > [Products](#) > [Extension Sensor Cable for ABSOCODER](#) > Heavy Duty Extension Sensor Cable for ABSOCODER

Heavy Duty Extension Sensor Cable for ABSOCODER

Extension sensor cable for heavy duty is the cable which connects an ABSOCODER sensor to converter.
Select cables from usage and environment.



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Heavy duty sensor type

Model coding

Ex. **4P-RBT - 43 44 -** ☐

①
②
③
④

① Cable type

For 2-phase type

② Connector (Converter side)

Code	Connector type

Code	Cable type
4P-S	Standard cable
4P-RBT	Robotic cable
4P-URT	Semi-heat-resistant robotic cable
4P-HRT	Heat-resistant robotic cable
4P-RL	Reel cable

For 3-phase type (VRE-16TS100, VLS-8SM)

Code	Cable type
3S-S	Standard cable
3S-RBT	Robotic cable
3S-URT	Semi-heat-resistant robotic cable
3S-HRT	Heat-resistant robotic cable

For 3-phase type (MRE-1024S16TS100)

Code	Cable type
5S-SLA	Standard cable
5S-RBT	Robotic cable
5S-HRT	Heat-resistant robotic cable

01	Connector for connecting to a converter (R04-PB9M8.0A)
27	Large connector (NWPC-4012-Ad14)
43	Standard connector (NJW-2012-PM8)
51	Standard connector (NJW-2012-PM10)
90	Crimp-type terminal (R1.25-4)
91	Crimp-type terminal (R2-4)

③ Connector (Sensor side)

Code	Connector type
26	Large connector (NWPC-4012-P14)
40	Connector for directly connecting to a sensor (NJW-2012-PF8)
44	Standard connector (NJW-2012-AdF8)
52	Standard connector (NJW-2012-AdF10)
55	Large connector (NWPC-4012-P12)
90	Crimp-type terminal (R1.25-4)
91	Crimp-type terminal (R2-4)

④ Cable length [Units : m]

Code	Cable length
4P-S	2,3,5,8,10,15,20,25,30,35,40,45,50
4P-RBT	
3S-S	
3S-RBT	
5S-SLA	
5S-RBT	

Code	Cable length
4P-URT	5,10,15,20,25,30,35,40,45,50
4P-HRT	
4P-RL	
3S-URT	

→ Heavy Duty Extension Sensor Cable

→ ezABSO® Pulse Series

→ ezABSO® Network Series

→ Magnetic Proximity Sensor

→ Tension Measurement

→ Eddy Current Displacement
Sensor

→ Explosion Proof Solution

→ Joint Development Products

→ Slip-Ring and Wireless
Transfer Device

→ Renewal Solution

→ Customized NSD Solution

→ Parameter Software

Service support
and
product guarantee

→ Service support
and product guarantee

3S-HRT

5S-HRT

We will provide the cable every 10m if you would like to purchase longer than 50m.

Specification

NSD cable specifications

Item	Specification				
Model code	4P-S	4P-RBT	4P-RL	4P-URT	4P-HRT
Cable type	Standard cable	Robotic cable	Reel type cable	Semi-heat-resistant robotic cable	Heat-resistant robotic cable
Diameter	Φ8		Φ29	Φ8	
Operating temperature range	-5 ~ +60℃		-30 ~ +75℃	-5 ~ +105℃	0 ~ +105℃
Characteristic	Extendable for long distance	Superior flexibility; ideal for moving place			Heat resistance, Extensible superior flexibility that is ideal for moving part
Insulator	Irradiated cross linked foamed polyethylene	ETFE plastic	Ethylene propylene rubber mixture	ETFE plastic	
Sheath	Polyvinyl chloride mixture		Chloroprene mixture	Heat-resistant polyvinyl chloride mixture	Fluonlex
Construction	8-core, 2-pair without shield + 2-pair with shield		8-core,4-pair with shield	8-core, 2-pair without shield + 2-pair with shield	
Color of sheath	Gray	Black			
Applicable ABSOCODER	VRE-P061,VRE-P074,VRE-P101 VRE-10TP068,VRE-10TP101 MRE-□SP061,MRE-□SP074,MRE-□SP101 SCHH/SCAH,CSAH,SCJJ,SCM/SCJ IRS-51.2P,IRS-32.8P				






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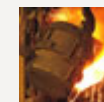
NSD is where the customer needs are


[Principle of ABSOCODER](#)

Please check the creative principle of NSD ABSOCODER


[NSD HISTORY](#)

Preparation for a better future and for the next generation


[Major Application](#)

Please check the wide-use ABSOCODER's application


[Extension Sensor Cable](#)

Please check the extension sensor cable for ABSOCODER

High-resolution type sensor cable specifications

Item	Specification						
Model code	3S-S	3S-RBT	5S-RBT	5S-SLA	3S-URT	3S-HRT	5S-HRT
Cable type	Standard cable	Robotic cable		Standard cable	Semi-heat-resistant robotic cable	Heat-resistant robotic cable	
Diameter	Φ8		Φ8.5	Φ20.5	Φ8	Φ9.5	Φ11.5
Operating temperature range	-5 ~ +60℃				-5 ~ +105℃	0 ~ +105℃	
Characteristic	Extendable for long distance	Superior flexibility; ideal for moving place		Extendable for long distance	Superior flexibility; ideal for moving place	Heat resistance, superior flexibility that is ideal for moving part	
Insulator	Irradiated cross linked foamed polyethylene	ETFE plastic		Irradiated cross linked foamed polyethylene	ETFE plastic		
Sheath	Polyvinyl chloride mixture				Heat-resistant polyvinyl chloride mixture	Fluonlex	
Construction	7-core 1-triple with shield + 2-pair with shield		11-core 1-triple with shield + 4-pair with shield		7-core 1-triple with shield + 2-pair with shield	7-core 1-triple with shield + 2-pair with shield	11-core 1-triple with shield + 4-pair with shield
Color of sheath	Dark brown	Blue		Dark brown	Blue	Black	
Applicable ABSOCODER	VRE-16TS100 VLS-8SM		MRE-1024S16TS100		VRE-16TS100 VLS-8SM		MRE-1024 S16TS100

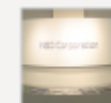
Combination

- Single-turn type ABSOCODER sensor VRE
- Multi-turn type ABSOCODER sensor MRE



[NSD YouTube Channel](#)

Please check the NSD official YouTube channel



[ON-LINE EXHIBITION](#)

Introducing the NSD on-line exhibition

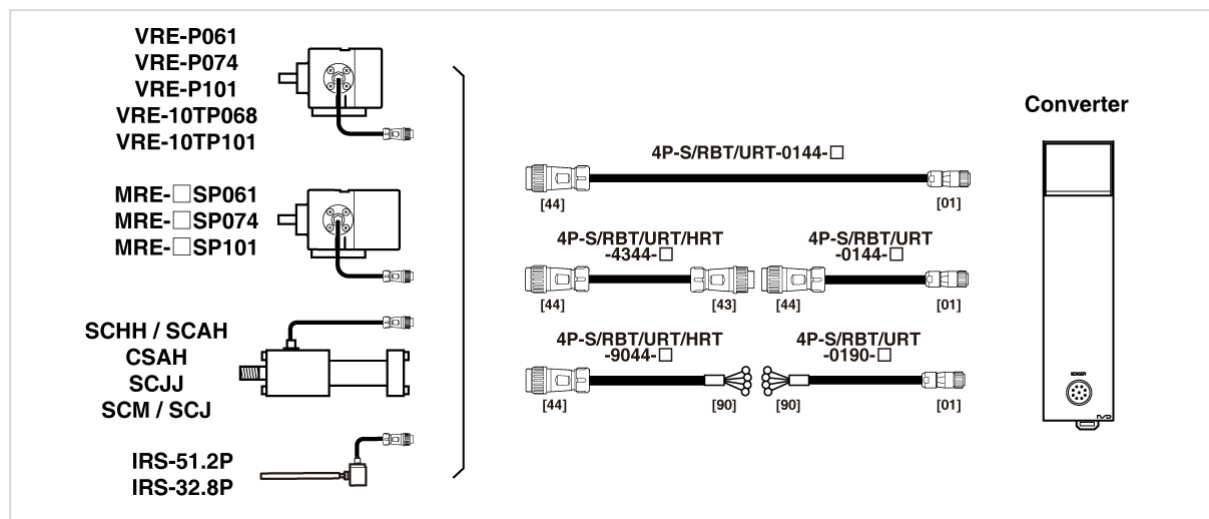


[ON-LINE MEETING](#)

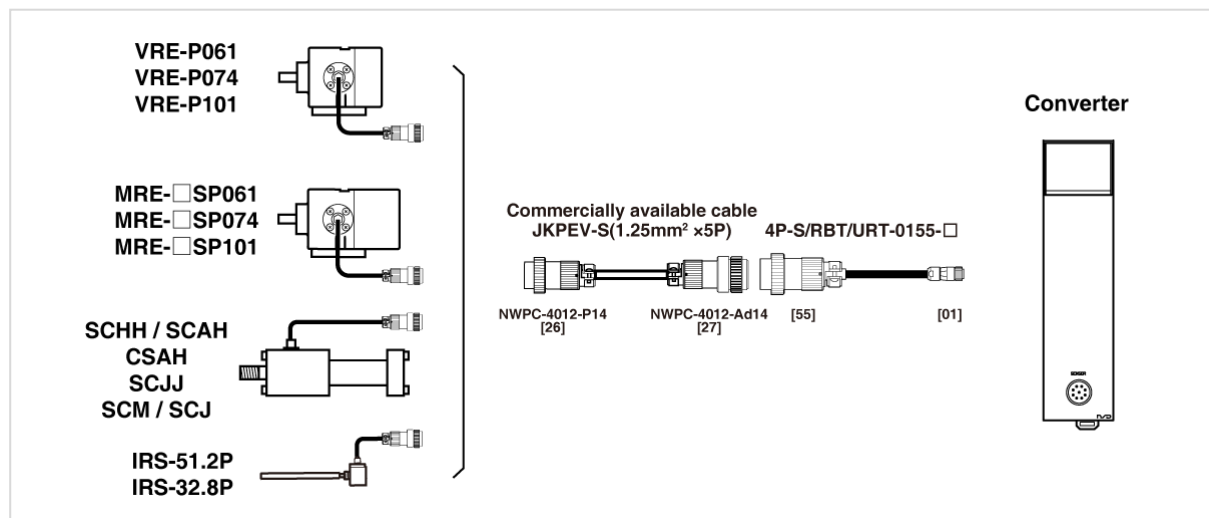
NSD on-line meeting service page

Smart Linear Position Sensing Cylinder CYLNUC Cylinder In Rod Linear Position Sensor Inrodsensor

Ex. ①

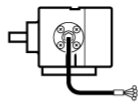


Ex. ②

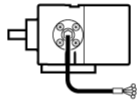


Ex. ③

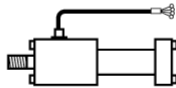
VRE-P061
VRE-P074
VRE-P101



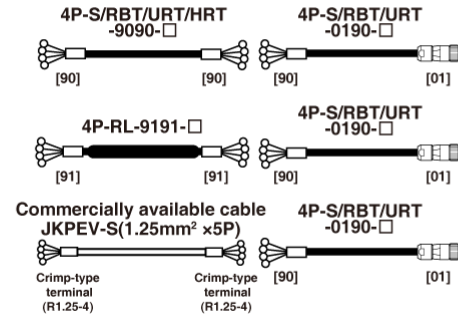
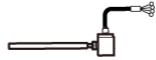
MRE-□SP061
MRE-□SP074
MRE-□SP101



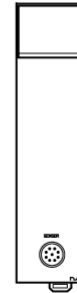
SCHH / SCAH
CSAH
SCJJ
SCM / SCJ



IRS-51.2P
IRS-32.8P

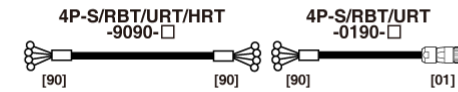
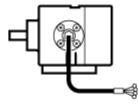


Converter

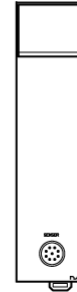


Ex. ④

VRE-10TP068
VRE10TP101

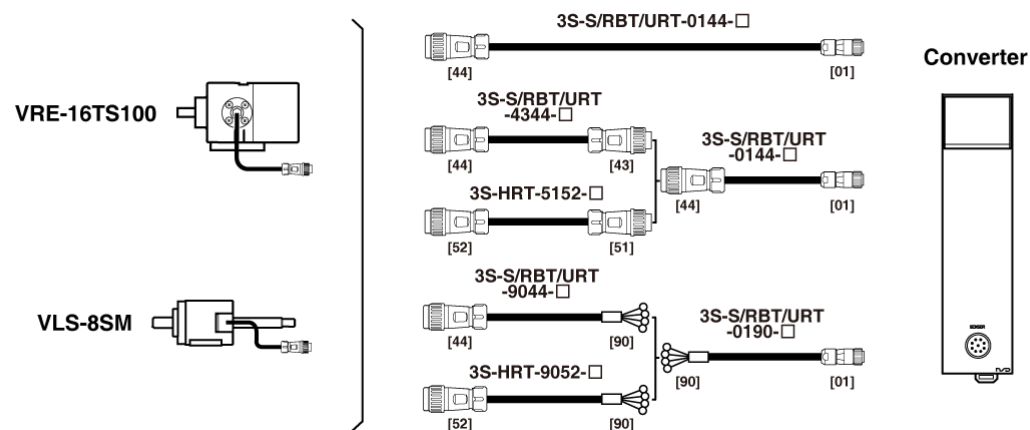


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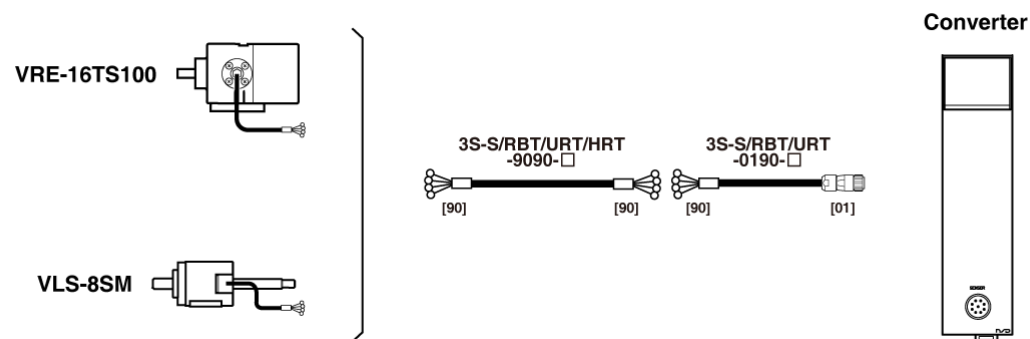


High-resolution Single-turn type ABSOCODER sensor VRE
High-resolution Linear type ABSOCODER sensor VLS

Ex. ⑤

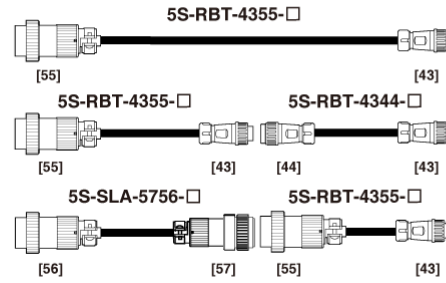
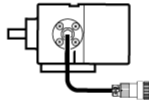


Ex. ⑥



High-resolution Multi-turn type ABSOCODER sensor MRE

MRE-1024S16TS100



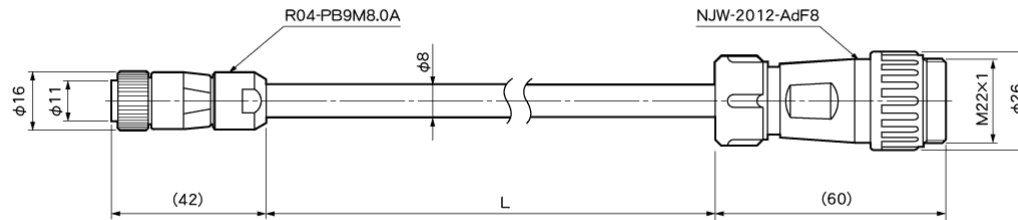
Converter



Dimensions

Extension Sensor Cable

4P-S-0144 / 4P-RBT-0144 / 4P-URT-0144

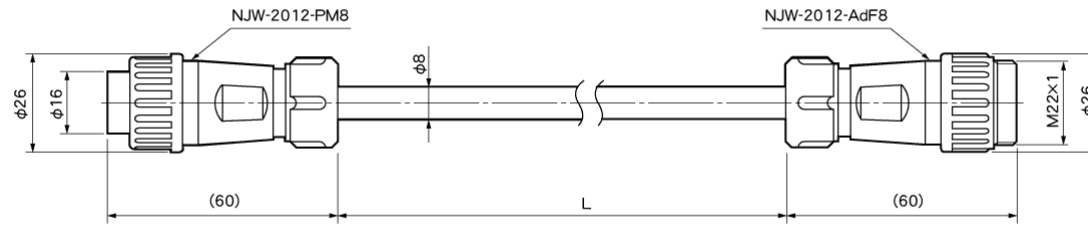


NOTE:[L] is given in terms of meter.

Extension Sensor Cable

4P-S-4344 / 4P-RBT-4344 / 4P-URT-4344 / 4P-HRT-4344

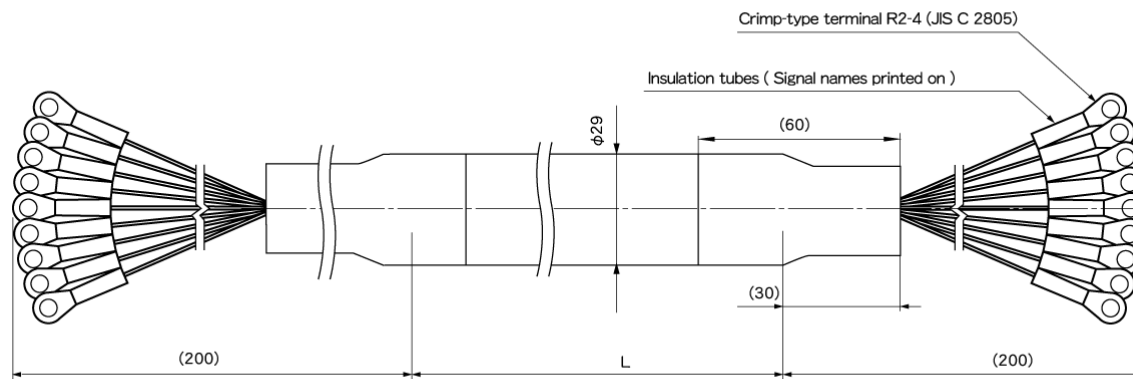
Units:mm



NOTE:[L] is given in terms of meter.

Extension Sensor Cable 4P-RL-9191

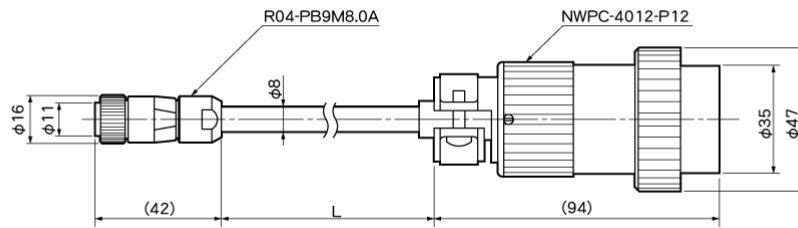
Units:mm



NOTE:[L] is given in terms of meter.

Extension Sensor Cable 4P-S-0155 / 4P-RBT-0155 / 4P-URT-0155

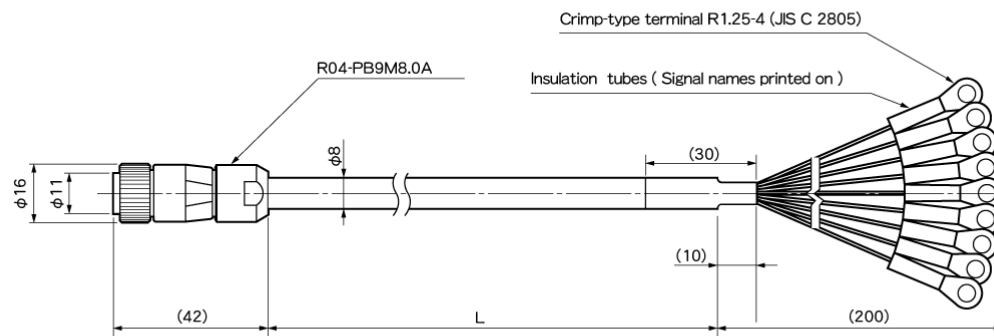
Units:mm



NOTE:[L] is given in terms of meter.

Extension Sensor Cable 4P-S-0190 / 4P-RBT-0190 / 4P-URT-0190

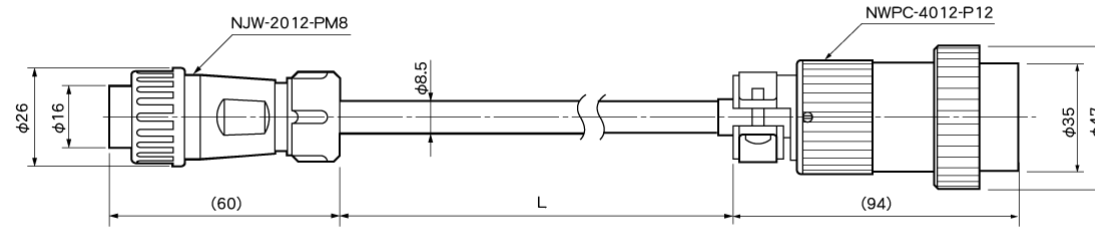
Units:mm



NOTE:[L] is given in terms of meter.

Extension Sensor Cable 5S-RBT-4355

Units:mm

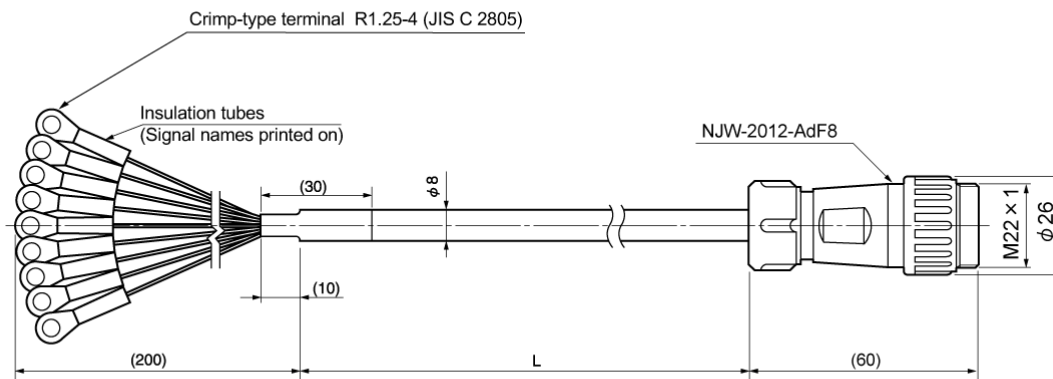


NOTE:[L] is given in terms of meter.

■ Extension Sensor Cable

4P-S-9044 / 4P-RBT-9044 / 4P-URT-9044 / 4P-HRT-9044

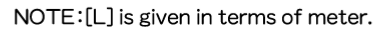
Units:mm



NOTE:[L] is given in terms of meter.

■ Extension Sensor Cable

4P-S-9090 / 4P-RBT-9090 / 4P-URT-9090 / 4P-HRT-9090



(2) The robotic cable length (L_r) should be determined with reference to the drawing, and by measuring, etc. Be sure that the "b (L_2)" length given above is not exceeded.

(3) The maximum standard cable extension length (Ls) can be calculated using the formula shown below.

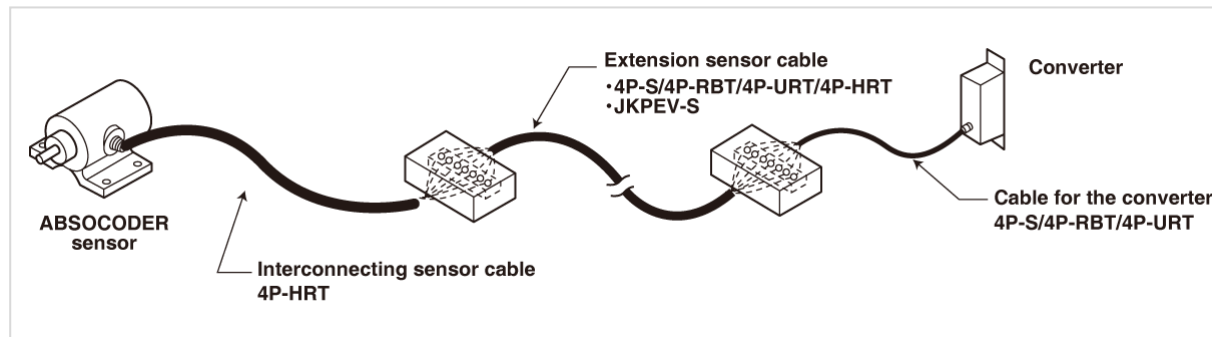
■ Calculation formula

Ls(m): Standard or JKPEV-S cable

Lr(m): Robotic, semi-heat-resistant robotic, or heat-resistant robotic cable

$$L_s = L_1 - L_r \times \frac{L_1}{L_2}$$

■ Cable configuration



■ Products

- ➔ [Principle of ABSOCODER](#)
- ➔ [Single Turn Rotary Position Sensor](#)
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