



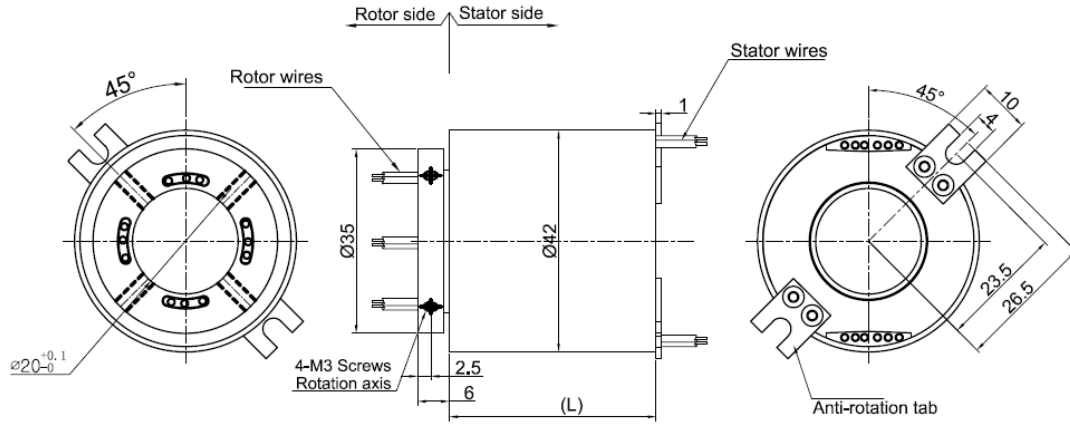
**CTH2042** series provides a 20mm through-bore for routing of hydraulic or pneumatic lines or hydraulic or pneumatic rotating shaft installation, and a compact 42mm outside diameter, features long life, fiber brush contact technology for ultimate performance in many-challenging applications.

**CTH2042** series are standard, off-the-shelf products, Color-coded lead wires are used on both the stator and rotor for simplified electrical connections. It can transmit signal (2A), 5A current when 360° degree free rotating.

## Technical Data

Modele	Lenght	Circuits
	mm	Signal or 5A
CTH2042-00P/02S	25,4	2
CTH2042-00P/03S	25,4	3
CTH2042-00P/04S	25,4	4
CTH2042-00P/06S	25,4	6
CTH2042-00P/08S	39,2	8
CTH2042-00P/10S	39,2	10
CTH2042-00P/12S	39,2	12

# DRAWING



Dimensions in mm

## LEAD WIRES COLOR CODE

Ring	1	2	3	4	5	6	7	8	9	10	11	12
Color	BLK	RED	YEL	GRN	BLU	WHT	BLK	RED	YEL	GRN	BLU	WHT

# SPECIFICATIONS

## ELECTRICAL DATA

Parameter	Power	Signal
Rated Voltage	0~240VAC/VDC	0~240VAC/VDC
Insulation Resistance	$\geq 500M\Omega / 500VDC$	$\geq 500M\Omega / 500VDC$
Lead Wires	AWG28#Teflon	AWG28#Teflon
Lead Length	Standard 300mm (adjustable)	
Insulation Strength	500VAC@50Hz, 60s	
Electrical Noise	<0,01Q	

## MECHANICAL DATA

Parameter	Value
Working Life	See Product Quality Level Table
Rotating Speed	See Product Quality Level Table
Working Temperature	-30°C~80°C
Operating Humidity	0~85% RH
Contact Material	See Product Quality Level Table
Housing Material	PBT
Torque	0,5Nm; +0,02Nm/6rings
Protection Grade	IP51

## PRODUCT QUALITY LEVEL TABLE

Products Level Code	Max Rotating Speed	Working Life	Contact Material
S	250RPM	20 Million Revs	Precious Metal
I	600RPM	60 Million Revs	Gold-Gold

# PART NUMBER COMPOSITION

**CTH 2042S - xxP/yyS - 00000 - XXXXX**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① Inner Dia
- ② Outer Dia
- ③ Quality Level  
S = Standard  
I = Industrial  
H = High level

- ④ Number of power wires
- ⑤ Number of signal wires
- ⑥ Flange  
00  
01  
..07

- ⑦ Flange Position  
O = No Flange  
R = Rotor  
I = Interior  
S = Stator

- ⑧ Rotor cable length  
0 = 300mm  
1 = 600mm  
2 = 1200mm  
X = Custom
- ⑨ Stator cable length  
0 = 300mm  
1 = 600mm  
2 = 1200mm  
X = Custom

- ⑩ Special Options  
01CAN = CanOpen  
01ECT= Ethercat  
01PRO = Profibus  
01ETH = Giga Ethernet  
IP65 = IP65  
IP68 = IP68

In accordance with our policy of continual product improvement, A2V reserves the right to amend the specification of these products without prior notification