ME SERIES (Ethernet)

ME series (1000M baseT Ethernet)

MOFLON's Ethernet slip ring solutions have been developed to provide reliable products to allow transfer of the Ethernet protocol through a rotating interface.

The innovative designs meet the challenge of matching impedance, controlling crosstalk and managing losses. Wide range of product solutions are offered with combinations of data and power in multiple mechanical configurations to meet your application needs.

Configured for Ethernet transmission

RJ45 connector for direct plug-and-play

High performance contact technology

Available with multiple Ethernet, power and signal combinations



MODEL#	1000M BASET ETHERNET	POWER/SIGNAL WIRES	BORE	OVERALL DIAMETER
ME2121	1	1~24	12.7MM	56MM
ME2122	2	1~24	12.7MM	56MM
ME2251	1	1~48	25.4MM	86MM
ME2252	2	1~48	25.4MM	86MM
ME2381	1	1~56	38.1MM	99MM
ME2382	2	1~56	38.1MM	99MM
ME2501	1	1~72	50.8MM	120MM
ME2502	2	1~72	50.8MM	120MM
ME1221	1	1~12	solid	22MM



ME2121 - ME SERIES

ME2121 (1000M baseT Ethernet)

ME2121, support 1 channel 1000M baseT ethernet slip rings, with through bore size 12.7mm(0.5"), overall diameter 56mm, are standard, off-the-shelf, Color-coded lead wires are used on both the stator and rotor for simplified electrical connections.

PART# Explanation:

ME2121 - P0610 - S06

S06: signal/2A each @ 6 circuits
P0610: 10A each @ 6 circuits



Specifications

PART ##		OD*L	SIGNAL/5A	10A	20A	1000M B A S E T	
ME2121-S04	56n	mm*54mm	4	0	0	1	
ME2121-P0410		nm*54mm	0	4	0	1	
ME2121-P0420	56n	mm*62mm	0	0	4	1	
ME2121-S10	56n	mm*70.5mm	10	0	0	1	
ME2121-P0210-S08	56n	mm*70.5mm	8	2	0	1	
ME2121-P0610-S04	56r	nm*70.5mm	4	6	0	1	
ME2121-S16	56n	mm*87.5mm	16	0	0	1	
ME2121-P1610	56n	mm*87.5mm	0	16	0	1	
ME2121-P0410-S12 5		mm*87.5mm	12	4	0	1	
Ethernet Specifications							
Ethernet	1000M b	aseT	Ethernet connectors		Rj45		
BER		10E-11		Insert loss		2db	

			,	
BER	10E-11	Insert loss	2db	
	Power/signal Spec	cifications		
Rating voltage	400 VDC/VAC	Contact material	Precious Metal:Gold-Gold	
Dielectric strength	1000VDC@50Hz	Lead Wire	CAT6,AWG#22,#16	
Insulation resistance	1000MΩ@600VDC	Lead Lengths	250mm	
Operating Temp.	- 40°C to 80°C	Protection	lp51	
Max Speed	1000RPM	Humidity	10% to 90% RH	
Materials	Lead Free,RoHS compliant	CE Certified	YES	

Notes:

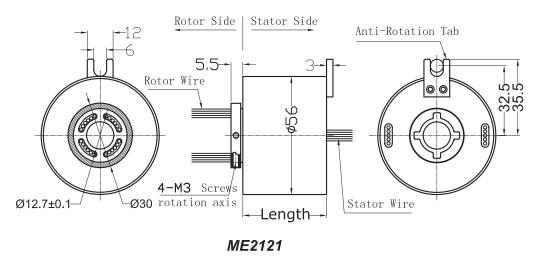
- 1)The operational life of the unit is dependent upon rotational speed, environment and temperature.
- 2)Lead Wire size: 5A/signal -> AWG22, 10A -> AWG16, 20A -> Awg14, colored code.
- 3)Electrical noise is dependent upon the rotating speed and current, voltage.



ME2121 - MESERIES

Drawings

Standard drawings:



12 wires for one group color. from 13 ... 24, repeat the same color as 1 ... 12, indicated with number code pipe.

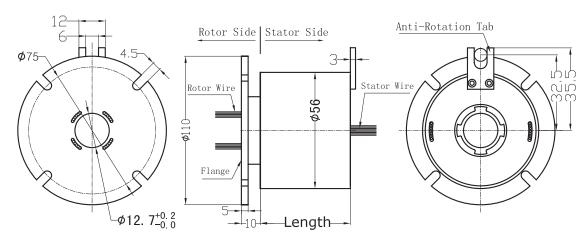
Lead wire Color codes							
Rings#	Color Code	Rings#	Color Code	Rings#	Color Code		
1	BLK	5	YEL	9	GRY		
2	BRN	6	GRN	10	WHT		
3	RED	7	BLU	11	PINK		
4	ORN	8	PURPLE	12	AZURY		

Optional Flanges mounting:

At sometimes, we need a different flange for mounting instead, how should we do?

Great! Moflon supply flange style as below:

(when you order, pls add FL01 at the suffix of Part#, for example: ME2121-06S-FL01 means ME2121-06S with optional flange FL01.)



Suffix - FL01

ME2121 - ME SERIES

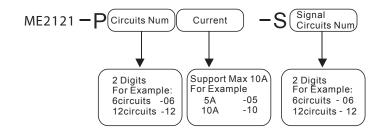
Options

- ▶ Can combine more wires:1-96Ring
- Specified connectors and Heat-shrink tube.
- Longer lead lengths available.
- Shielded cables
- Connectors
- Frequencies up to 500 MHz
- High-speed data transmission for fast Ethernet and EtherCat
- Signal, Coax, and Power combinations
- Thermocouples
- > Shock, Vibration, and Temperature Qualified
- Pneumatic/Hydraulic Capability
- ▶ High temperature---up to 450 degree
- High Voltage & large Current(1000A)
- Military Grade.

Build On Request

how to build on request?

Please see ordering information instructions as below



For example:

- if order ME2121 with 6wires*signal, the model should be ME2121-S06.
- if order ME2121 with 12wires*signal + 3wires*10A, the model should be ME2121-P0310-S12
- $\ \, \textbf{if you have other optional requirements, such as lead wire length, connectors, military grade, Please descrip in your email.} \\$

After Finishing above, pls send email to us: technical@moflon.com for further technical support.

