#### HOLLOW SHAFT ETHERNET SLIP RING 1000 BASE-T

### ID: 20mm

#### Description

Hollow Shaft Slip Ring REC - Model RH20 Ethernet Series ID: 20mm

This type of slip rings with the centre-hole and Ethernet transmission can be used alone or in combination with any electromechanical system that requires unlimited continuous rotation when transferring power and / or signal data from a fixed structure to a rotating structure. Products inner diameter is 20mm and outer diameter is 69mm and can be pivoted on a shaft easily. It provides Ethernet, EtherCAT, Profinet, Sercos, Powerlink and Canbus transmissions designed for high and fast data transmission. Fibre brushes are virtually lubricant and maintenance-free, with virtually no abrasion for lifetime use. Suitable for 1000Mbit transmission and equipped with RJ45 / M12 connectors for plug and play use. CAT5E, CAT6 or CAT7E cables can be selected by the customer. Depending on the models, these products have an aluminium or abs body and are very easy to assemble having many different flange structures. By combining signal and power lines, specific current and multiples value can be made. In this type of slip ring, a group of fibre brush technologies are used and there are several points of contact between the brushes, thus ensuring long life and uninterrupted transmission. Slip ring can be integrated with complete fluid rotary transmission. Each slip ring is tested for transmission lines besides the standard controls before delivery.







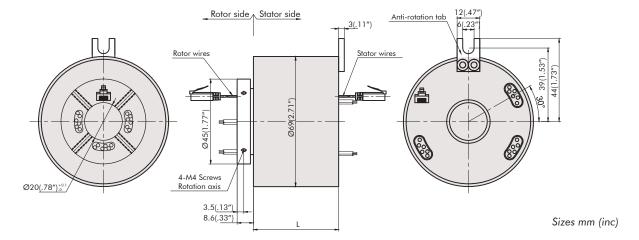












#### **Features**

The product has a hole diameter of 20mm and 1 and 2 Ethernet and maximum 20 lines in standard production. In the case of special manufacturing, the number of conductors is produced more. The lines can be joined in multiples of  $2\mathsf{A}$  and  $10\mathsf{A}.$  Optional operating speed operating speeds are  $150\,\mathrm{rpm}$  and  $500\,$ rpm. Gold rings and silver brushes. ABS or Aluminium Body.

#### **Options**

Mechanical Design, Flange Option, IP Class, Operating Temperature, Different Current Values, Case Options as AL or ABS, Military Class Standard.

#### **Flectrical Information**

Elocifical information						
Features	Values					
	Power	Signal				
Rated Voltage	440VAC/VDC	440VAC/VDC				
Insulation Resistance	$\geq$ 1000M $\Omega$ /500VDC	$\geq$ 1000M $\Omega$ /500VDC				
Cable Size	AWG16#Teflon	AWG22#Teflon				
Cable Lenght	Standard: 300mm					
Flectrical Noise	< 0.01.0					

#### Mechanical Information

Features	Values
Operating Speed	150rpm / 500rpm
Operating Temperature	-30°C~+80°C
Operating Humidity	0~85%RH
Contact Material	Precious Metal
Frame Material	Aluminium
IP Class	IP51

<sup>\*</sup>For more information about how REC slip ring hollow can fit your specific application, contact our slip ring experts



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# ID: 20mm

# RH20 Series Ethernet Slip Rings Product List

RH20.SQ405.E01   20   69   54.8   1   RJ45   4   RH20.PQ410.E01   20   69   54.8   1   RJ45   0   RH20.PQ410.E01   20   69   69   71.6   1   RJ45   0   RH20.PQ810.E01   20   69   71.6   1   RJ45   10   RH20.SQ405.E01   20   69   71.6   1   RJ45   8   RH20.PQ210.SQ805.E01   20   69   71.6   1   RJ45   8   RH20.PQ610.SQ805.E01   20   69   71.6   1   RJ45   16   RH20.PQ610.SQ805.E01   20   69   88.4   1   RJ45   12   RH20.SQ805.E01   20   69   88.4   1   RJ45   12   RH20.PQ610.SQ805.E01   20   69   88.4   1   RJ45   22   RH20.PQ610.SQ805.E01   20   69   105.2   1   RJ45   24   RH20.SQ805.E01   20   69   105.2   1   RJ45   24   RH20.SQ805.E01   20   69   105.2   1   RJ45   24   RH20.SQ805.E01   20   69   71.6   2   RJ45   24   RH20.PQ610.SQ805.E02   20   69   71.6   2   RJ45   3   RH20.PQ610.SQ805.E02   20   69   71.6   2   RJ45   3   RH20.PQ610.SQ805.E02   20   69   88.4   2   RJ45   3   RH20.PQ610.E02   20   69   88.4   2   RJ45   3   RJ45   3   RH20.PQ610.E02   20   69   88.4   2   RJ45   3   RJ45	odel	Internal Diameter	External Diameter	(L=mm)	Ethernet	Connector	Signal 5A	Power 10A
RH20.P0410.E01         20         69         54.8         1         RJ45         0           RH20.P0810.E01         20         69         71.6         1         RJ45         0           RH20.D040.E01         20         69         71.6         1         RJ45         10           RH20.P0210.S0805.E01         20         69         71.6         1         RJ45         8           RH20.P0610.S0405.E01         20         69         71.6         1         RJ45         4           RH20.P1610.E01         20         69         88.4         1         RJ45         16           RH20.P0410.E01         20         69         88.4         1         RJ45         0           RH20.P0410.E01         20         69         88.4         1         RJ45         12           RH20.P0810.S0805.E01         20         69         88.4         1         RJ45         2           RH20.P0810.S0805.E01         20         69         105.2         1         RJ45         2           RH20.P0810.S0805.E01         20         69         105.2         1         RJ45         2           RH20.P0810.S0805.E01         20         69         122		(mm)	(mm)					
RH20.P0810.E01         20         69         71.6         1         RI45         0           RH20.S0405.E01         20         69         71.6         1         RI45         10           RH20.P0210.S0805.E01         20         69         71.6         1         RI45         8           RH20.P0610.S0405.E01         20         69         81.6         1         RI45         4           RH20.F1610.E01         20         69         88.4         1         RI45         0           RH20.P0410.E01         20         69         88.4         1         RI45         0           RH20.P0410.E01         20         69         88.4         1         RI45         12           RH20.P0410.S0805.E01         20         69         88.4         1         RI45         2           RH20.P0410.S0805.E01         20         69         105.2         1         RI45         22           RH20.P0410.S0405.E01         20         69         105.2         1         RI45         2           RH20.P0410.S0405.E01         20         69         122         1         RI45         2           RH20.P0410.S0405.E01         20         69         71	H20.S0405.E01	20	69	54.8	1	RJ45	4	0
RH20.S0405.E01         20         69         71.6         1         RJ45         10           RH20.P0210.S0805.E01         20         69         71.6         1         RJ45         8           RH20.P0610.S0405.E01         20         69         71.6         1         RJ45         4           RH20.P1610.E01         20         69         88.4         1         RJ45         0           RH20.P1610.E01         20         69         88.4         1         RJ45         0           RH20.P0410.E01         20         69         88.4         1         RJ45         12           RH20.P0410.E01         20         69         88.4         1         RJ45         12           RH20.P0410.E01         20         69         88.4         1         RJ45         8           RH20.P0810.S0805.E01         20         69         105.2         1         RJ45         22           RH20.P0410.S0405.E01         20         69         105.2         1         RJ45         22           RH20.P0410.S0405.E01         20         69         122         1         RJ45         24           RH20.P0410.S0405.E01         20         69         71.6<	H20.P0410.E01	20	69	54.8	1	RJ45	0	4
RH20,P0210.S0805.E01         20         69         71.6         1         RJ45         8           RH20,P0610.S0405.E01         20         69         71.6         1         RJ45         4           RH20,P1610.E01         20         69         88.4         1         RJ45         16           RH20,P0410.E01         20         69         88.4         1         RJ45         12           RH20,P0410.E01         20         69         88.4         1         RJ45         12           RH20,P0810.S0805.E01         20         69         88.4         1         RJ45         12           RH20,P0810.S0805.E01         20         69         105.2         1         RJ45         22           RH20,P0810.S0405.E01         20         69         105.2         1         RJ45         22           RH20,P0410.S0405.E01         20         69         105.2         1         RJ45         22           RH20,P0410.S2405.E01         20         69         122         1         RJ45         24           RH20,P0410.S2405.E01         20         69         71.6         2         RJ45         2           RH20,P0205.E02         20         69	H20.P0810.E01	20	69	71.6	1	RJ45	0	8
RH20.P0610.S0405.E01         20         69         71.6         1         R145         4           RH20.S1605.E01         20         69         88.4         1         RI45         16           RH20.P1610.E01         20         69         88.4         1         RI45         0           RH20.P0410.E01         20         69         88.4         1         RI45         12           RH20.P0810.S0805.E01         20         69         88.4         1         RI45         8           RH20.S2205.E01         20         69         105.2         1         RI45         22           RH20.S2205.E01         20         69         105.2         1         RI45         18           RH20.S2205.E01         20         69         105.2         1         RI45         18           RH20.S2205.E01         20         69         105.2         1         RI45         22           RH20.P0410.S2405.E01         20         69         122         1         RI45         24           RH20.S2805.E01         20         69         71.6         2         RI45         2           RH20.P0210.E02         20         69         71.6 <t< td=""><td>H20.S0405.E01</td><td>20</td><td>69</td><td>71.6</td><td>1</td><td>RJ45</td><td>10</td><td>0</td></t<>	H20.S0405.E01	20	69	71.6	1	RJ45	10	0
RH20.S1605.E01         20         69         88.4         1         RI45         16           RH20.P1610.E01         20         69         88.4         1         RI45         0           RH20.P0410.E01         20         69         88.4         1         RI45         12           RH20.P0810.S0805.E01         20         69         88.4         1         RI45         8           RH20.S2205.E01         20         69         105.2         1         RI45         22           RH20.P0410.S0405.E01         20         69         105.2         1         RI45         18           RH20.P0410.S2405.E01         20         69         105.2         1         RI45         22           RH20.P0410.S2405.E01         20         69         122         1         RI45         24           RH20.P0410.S2405.E01         20         69         122         1         RI45         28           RH20.P0410.S2405.E02         20         69         71.6         2         RI45         2           RH20.P0410.E02         20         69         71.6         2         RI45         0           RH20.P0410.E02         20         69         88,4	H20.P0210.S0805.E01	20	69	71.6	1	RJ45	8	2
RH20.P1610.E01 20 69 88.4 1 RJ45 0 RH20.P0410.E01 20 69 88.4 1 RJ45 12 RH20.P0810.S0805.E01 20 69 88.4 1 RJ45 8 RH20.S2205.E01 20 69 105.2 1 RJ45 22 RH20.P0410.S0405.E01 20 69 105.2 1 RJ45 18 RH20.S2205.E01 20 69 105.2 1 RJ45 22 RH20.P0410.S2405.E01 20 69 105.2 1 RJ45 22 RH20.P0410.S2405.E01 20 69 122 1 RJ45 22 RH20.S2805.E01 20 69 122 1 RJ45 24 RH20.S2805.E01 20 69 71.6 2 RJ45 28 RH20.S0205.E02 20 69 71.6 2 RJ45 0 RH20.P0410.S0405.E02 20 69 88,4 2 RJ45 8 RH20.S0805.E02 20 69 88,4 2 RJ45 8 RH20.S0805.E02 20 69 88,4 2 RJ45 0 RH20.P0410.S0405.E02 20 69 88,4 2 RJ45 4 RH20.P0410.S0405.E02 20 69 88,4 2 RJ45 14 RH20.P0610.S0805.E02 20 69 105.2 2 RJ45 14	H20.P0610.S0405.E01	20	69	71.6	1	RJ45	4	6
RH20.P0410.E01       20       69       88.4       1       RJ45       12         RH20.P0810.S0805.E01       20       69       88.4       1       RJ45       8         RH20.S2205.E01       20       69       105.2       1       RJ45       22         RH20.P0410.S0405.E01       20       69       105.2       1       RJ45       18         RH20.S2205.E01       20       69       105.2       1       RJ45       22         RH20.P0410.S2405.E01       20       69       122       1       RJ45       24         RH20.S2805.E01       20       69       122       1       RJ45       28         RH20.S0205.E02       20       69       71.6       2       RJ45       2         RH20.P0210.E02       20       69       71.6       2       RJ45       0         RH20.S0805.E02       20       69       88,4       2       RJ45       8         RH20.P0410.S0405.E02       20       69       88,4       2       RJ45       4         RH20.S1405       20       69       105.2       2       RJ45       14         RH20.P0610.S0805.E02       20       69       105.2<	H20.S1605.E01	20	69	88.4	1	RJ45	16	0
RH20.P0810.S0805.E01       20       69       88.4       1       RJ45       8         RH20.S2205.E01       20       69       105.2       1       RJ45       22         RH20.P0410.S0405.E01       20       69       105.2       1       RJ45       18         RH20.S2205.E01       20       69       105.2       1       RJ45       22         RH20.P0410.S2405.E01       20       69       122       1       RJ45       24         RH20.S2805.E01       20       69       122       1       RJ45       28         RH20.S0205.E02       20       69       71.6       2       RJ45       2         RH20.P0210.E02       20       69       71.6       2       RJ45       0         RH20.S0805.E02       20       69       88,4       2       RJ45       8         RH20.P0410.S0405.E02       20       69       88,4       2       RJ45       4         RH20.S1405       20       69       88,4       2       RJ45       4         RH20.P0610.S0805.E02       20       69       105.2       2       RJ45       14         RH20.P0610.S0805.E02       20       69       1	H20.P1610.E01	20	69	88.4	1	RJ45	0	16
RH20.S2205.E01       20       69       105.2       1       RJ45       22         RH20.P0410.S0405.E01       20       69       105.2       1       RJ45       18         RH20.S2205.E01       20       69       105.2       1       RJ45       22         RH20.P0410.S2405.E01       20       69       122       1       RJ45       24         RH20.S2805.E01       20       69       71.6       2       RJ45       2         RH20.S0205.E02       20       69       71.6       2       RJ45       0         RH20.F0210.E02       20       69       88,4       2       RJ45       8         RH20.S0805.E02       20       69       88,4       2       RJ45       0         RH20.P0410.S0405.E02       20       69       88,4       2       RJ45       4         RH20.S1405       20       69       105.2       2       RJ45       14         RH20.P0610.S0805.E02       20       69       105.2       2       RJ45       8         RH20.P0610.S0805.E02       20       69       105.2       2       RJ45       8	120.P0410.E01	20	69	88.4	1	RJ45	12	4
RH20.P0410.S0405.E01       20       69       105.2       1       RJ45       18         RH20.S2205.E01       20       69       105.2       1       RJ45       22         RH20.P0410.S2405.E01       20       69       122       1       RJ45       24         RH20.S2805.E01       20       69       122       1       RJ45       28         RH20.S0205.E02       20       69       71.6       2       RJ45       2         RH20.P0210.E02       20       69       71.6       2       RJ45       0         RH20.S0805.E02       20       69       88,4       2       RJ45       8         RH20.P0810.E02       20       69       88,4       2       RJ45       0         RH20.P0410.S0405.E02       20       69       88,4       2       RJ45       4         RH20.S1405       20       69       105.2       2       RJ45       14         RH20.P0610.S0805.E02       20       69       105.2       2       RJ45       8	H20.P0810.S0805.E01	20	69	88.4	1	RJ45	8	8
RH20.S2205.E01         20         69         105.2         1         RJ45         22           RH20.P0410.S2405.E01         20         69         122         1         RJ45         24           RH20.S2805.E01         20         69         122         1         RJ45         28           RH20.S0205.E02         20         69         71.6         2         RJ45         2           RH20.P0210.E02         20         69         71.6         2         RJ45         0           RH20.S0805.E02         20         69         88,4         2         RJ45         8           RH20.P0810.E02         20         69         88,4         2         RJ45         0           RH20.P0410.S0405.E02         20         69         88,4         2         RJ45         4           RH20.S1405         20         69         105.2         2         RJ45         14           RH20.P0610.S0805.E02         20         69         105.2         2         RJ45         8	H20.S2205.E01	20	69	105.2	1	RJ45	22	0
RH20.P0410.S2405.E01       20       69       122       1       RJ45       24         RH20.S2805.E01       20       69       122       1       RJ45       28         RH20.S0205.E02       20       69       71.6       2       RJ45       2         RH20.P0210.E02       20       69       71.6       2       RJ45       0         RH20.S0805.E02       20       69       88,4       2       RJ45       8         RH20.P0810.E02       20       69       88,4       2       RJ45       0         RH20.P0410.S0405.E02       20       69       88,4       2       RJ45       4         RH20.S1405       20       69       105.2       2       RJ45       14         RH20.P0610.S0805.E02       20       69       105.2       2       RJ45       8	H20.P0410.S0405.E01	20	69	105.2	1	RJ45	18	4
RH20.S2805.E01         20         69         122         1         RJ45         28           RH20.S0205.E02         20         69         71.6         2         RJ45         2           RH20.P0210.E02         20         69         71.6         2         RJ45         0           RH20.S0805.E02         20         69         88,4         2         RJ45         8           RH20.P0810.E02         20         69         88,4         2         RJ45         0           RH20.P0410.S0405.E02         20         69         88,4         2         RJ45         4           RH20.S1405         20         69         105.2         2         RJ45         14           RH20.P0610.S0805.E02         20         69         105.2         2         RJ45         8	H20.S2205.E01	20	69	105.2	1	RJ45	22	0
RH20.S0205.E02       20       69       71.6       2       RJ45       2         RH20.P0210.E02       20       69       71.6       2       RJ45       0         RH20.S0805.E02       20       69       88,4       2       RJ45       8         RH20.P0810.E02       20       69       88,4       2       RJ45       0         RH20.P0410.S0405.E02       20       69       88,4       2       RJ45       4         RH20.S1405       20       69       105.2       2       RJ45       14         RH20.P0610.S0805.E02       20       69       105.2       2       RJ45       8	H20.P0410.S2405.E01	20	69	122	1	RJ45	24	4
RH20.P0210.E02     20     69     71.6     2     RJ45     0       RH20.S0805.E02     20     69     88,4     2     RJ45     8       RH20.P0810.E02     20     69     88,4     2     RJ45     0       RH20.P0410.S0405.E02     20     69     88,4     2     RJ45     4       RH20.S1405     20     69     105.2     2     RJ45     14       RH20.P0610.S0805.E02     20     69     105.2     2     RJ45     8	H20.S2805.E01	20	69	122	1	RJ45	28	0
RH20.S0805.E02     20     69     88,4     2     RJ45     8       RH20.P0810.E02     20     69     88,4     2     RJ45     0       RH20.P0410.S0405.E02     20     69     88,4     2     RJ45     4       RH20.S1405     20     69     105.2     2     RJ45     14       RH20.P0610.S0805.E02     20     69     105.2     2     RJ45     8	H20.S0205.E02	20	69	71.6	2	RJ45	2	0
RH20.P0810.E02     20     69     88,4     2     RJ45     0       RH20.P0410.S0405.E02     20     69     88,4     2     RJ45     4       RH20.S1405     20     69     105.2     2     RJ45     14       RH20.P0610.S0805.E02     20     69     105.2     2     RJ45     8	H20.P0210.E02	20	69	71.6	2	RJ45	0	2
RH20.P0410.S0405.E02     20     69     88,4     2     RJ45     4       RH20.S1405     20     69     105.2     2     RJ45     14       RH20.P0610.S0805.E02     20     69     105.2     2     RJ45     8	H20.S0805.E02	20	69	88,4	2	RJ45	8	0
RH20.S1405 20 69 105.2 2 RJ45 14 RH20.P0610.S0805.E02 20 69 105.2 2 RJ45 8	H20.P0810.E02	20	69	88,4	2	RJ45	0	8
RH20.P0610.S0805.E02 20 69 105.2 2 RJ45 8	H20.P0410.S0405.E02	20	69	88,4	2	RJ45	4	4
	H20.S1405	20	69	105.2	2	RJ45	14	0
RH20.P1410.E02 20 69 105.2 2 RJ45 0	H20.P0610.S0805.E02	20	69	105.2	2	RJ45	8	6
	H20.P1410.E02	20	69	105.2	2	RJ45	0	14
RH20.S2005.E02 20 69 122 2 RJ45 20	H20.S2005.E02	20	69	122	2	RJ45	20	0
RH20.P0405.S1610.E02 20 69 122 2 RJ45 16	H20.P0405.S1610.E02	20	69	122	2	RJ45	16	4
RH20.P1010.S105.E02 20 69 122 2 RJ45 10	H20.P1010.S105.E02	20	69	122	2	RJ45	10	10

