



TPE OM PROBE WITH SS HOUSING Ø 6 X 50MM

SPECIFICATIONS

- Double insulated TPE overmolded probe with the addition of stainless steel housing
- Ideal for refrigeration and HVAC applications
- 24 AWG double insulated cable
- IP 68 Rated
- Mounting clip available to aid installation
- Available in a variety of connector types
- RoHS Compliant

FEATURES

- 24AWG double insulated TPE cable
- IP 68 Rated
- Insulation Resistance 100MΩ @ 500VDC
- Available in a variety of connector types
- Customized tolerances and resistances available on request
- Temperature range -40°C to +125°C

This assembly consists of a NTC thermistor soldered to a TPE extension cable. The sensor and the extension cable are moulded together as one hot vulcanised unit to give a high degree of protection against water/moisture ingress. The sensor is protected from mechanical damage by the stainless steel housing.

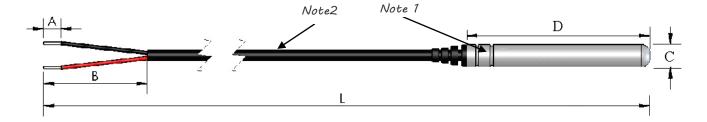
APPLICATIONS

- Refrigeration and HVAC applications
- Industrial Process Control
- Immersion Applications

PERFORMANCE SPECS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	10000
Tolerance at +25°C	%	± 1
Beta Value 25/85	K	3435
Tolerance on Beta Value	%	± 2
Time Response (+75°C to +25°C Water Bath)	Seconds	~24
Di-electric Strength (Core wires-cap 60Sec)	Vac	>2750
Dissipation Constant (Probe in still air)	mW/ºC	4

MECHANICAL DETAILS



	Dimension			
	Α	В	С	D
	5 ± 1mm	35 ± 3mm	Ø 6mm	50 ± 1mm
Note 1	Stainless Steel Housing			
Note 2	24AWG (7/32) Tin plated copper cable with Black TPE jacket (Temp. Rating +125°C)			

Figure 1: TPE Overmoulded Probe with SS Housing Ø 6 x 50mm

RESISTANCE V TEMPERATURE TABLE

Temp °C	KOhms	
'	I .	
-40	197.734	
-39	186.893	
-38	176.719	
-37	167.167	
-36	158.196	
-35	149.765	
-34	141.840	
-33	134.386	
-32	127.373	
-31	120.771	
-30	114.555	
-29	108.698	
-28	103.179	
-27	97.975	
-26	93.067	
-25	88.435	
-24	84.064	
-23	79.935	
-22	76.036	
-21	72.351	
-20	68.867	
-19	65.573	
-18	62.456	
-17	59.506	
-16	56.714	
-15	54.070	
-14	51.565	
-13	49.191	
-12	46.940	
-11	44.806	
-10	42.782	
-9	40.861	
-8	39.038	
-7	37.306	
-6	35.662	
-5	34.099	
-4	32.615	
-3	31.203	
-2	29.860	
-1	28.583	
0	27.368	
1	26.212	

Temp °C	KOhms	
2	25.111	
3	24.062	
4	23.063	
5	22.111	
6	21.204	
7	20.339	
8	19.514	
9	18.727	
10	17.976	
11	17.259	
12	16.575	
13	15.922	
14	15.298	
15	14.702	
16	14.132	
17	13.587	
18	13.067	
19	12.569	
20	12.092	
21	11.636	
22	11.200	
23	10.783	
24	10.783	
25	10.000	
	9.633	
26 27	9.033	
28	8.945	
29	8.622	
30	8.622	
31	8.016	
32	7.731	
33	7.731	
34	7.458	
35	6.944	
36	6.703	
37	6.471	
38	6.248	
39	6.035	
40	5.829	
41	5.631	
42	5.442	
42	5.259	
40	0.200	

Temp °C	KOhms	
44	5.084	
45	4.915	
46	4.753	
47	4.596	
48	4.446	
49	4.302	
50	4.162	
51	4.028	
	3.899	
52	3.775	
53	3.655	
54	3.539	
55		
56	3.428	
57	3.321	
58	3.218	
59	3.118	
60	3.022	
61	2.930	
62	2.840	
63	2.754	
64	2.671	
65	2.591	
66	2.513	
67	2.439	
68	2.366	
69	2.297	
70	2.229	
71	2.164	
72	2.102	
73	2.041	
74	1.982	
75	1.925	
76	1.871	
77	1.818	
78	1.766	
79	1.717	
80	1.669	
81	1.622	
82	1.578	
83	1.534	
84	1.492	
85	1.451	
00	11.0.	

Temp °C	KOhms
Tomp 0	TOTILIO
86	1.412
87	1.374
	1.337
88 89	1.301
90	1.266
91	1.233
92	1.200
93	1.169
94	1.138
95	1.108
96	1.080
97	1.052
98	1.025
99	0.999
100	0.973
101	0.948
102	0.924
103	0.901
104	0.879
105	0.857
106	0.836
107	0.815
108	0.795
109	0.775
110	0.757
111	0.738
112	0.720
113	0.703
114	0.686
115	0.670
116	0.654
117	0.639
118	0.624
119	0.609
120	0.595
121	0.581
122	0.567
123	0.554
124	0.542
125	0.529

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
10K3435DMS010	TPE OMP with SS Housing Ø6 x 50mm Length 1 meter	10000	1000*
10K3435DMS020	TPE OMP with SS Housing Ø6 x 50mm Length 2 meters	10000	1000*
10K3435DMS030	TPE OMP with SS Housing Ø6 x 50mm Length 3 meters	10000	1000*

^{*} For quantities less than Minimum Order Quantity - contact distribution

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