



TPE OVERMOULDED PROBE Ø 5 X 20MM

SPECIFICATIONS

- TPE Overmolded probe with probe head dimensions of Ø 5 x 20mm
- Ideal for refrigeration and HVAC applications
- 24 AWG double insulated cable
- IP 68 Rated
- 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

APPLICATIONS

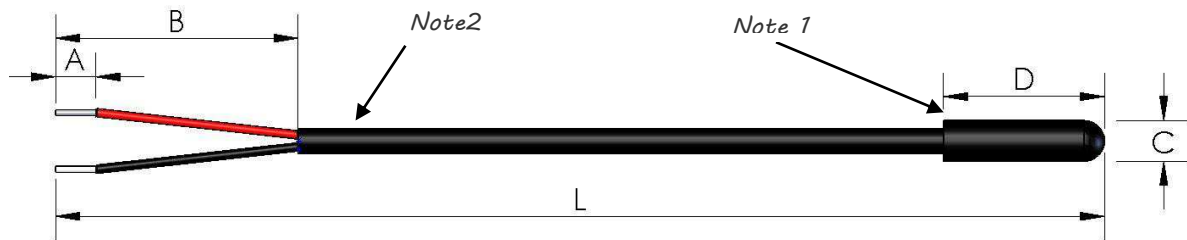
- Refrigeration and HVAC applications
- Industrial Process Control

This assembly consists of a DO-35 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.

PERFORMANCE SPECS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	10,000
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
Breaking strain	N	>200
Temperature range	°C	-40 to +125

MECHANICAL DETAILS



	Dimension			
	A	B	C	D
	5 ± 1mm	35 ± 3mm	Ø 5mm	20 ± 1mm
Note 1	NTC encapsulated using TPE over-mold material (Temp. Rating +125°C)			
Note 2	24AWG (7/32) Tin plated copper cable with Black TPE jacket (Temp. Rating +125°C)			

Figure 1: TPE Overmoulded Probe Ø 5 x 20mm

RESISTANCE V TEMPERATURE TABLE

Temp °C	KOhms	Temp °C	KOhms	Temp °C	KOhms	Temp °C	KOhms
-40	197.734	2	25.111	44	5.084	86	1.412
-39	186.893	3	24.062	45	4.915	87	1.374
-38	176.719	4	23.063	46	4.753	88	1.337
-37	167.167	5	22.111	47	4.596	89	1.301
-36	158.196	6	21.204	48	4.446	90	1.266
-35	149.765	7	20.339	49	4.302	91	1.233
-34	141.840	8	19.514	50	4.162	92	1.200
-33	134.386	9	18.727	51	4.028	93	1.169
-32	127.373	10	17.976	52	3.899	94	1.138
-31	120.771	11	17.259	53	3.775	95	1.108
-30	114.555	12	16.575	54	3.655	96	1.080
-29	108.698	13	15.922	55	3.539	97	1.052
-28	103.179	14	15.298	56	3.428	98	1.025
-27	97.975	15	14.702	57	3.321	99	0.999
-26	93.067	16	14.132	58	3.218	100	0.973
-25	88.435	17	13.587	59	3.118	101	0.948
-24	84.064	18	13.067	60	3.022	102	0.924
-23	79.935	19	12.569	61	2.930	103	0.901
-22	76.036	20	12.092	62	2.840	104	0.879
-21	72.351	21	11.636	63	2.754	105	0.857
-20	68.867	22	11.200	64	2.671	106	0.836
-19	65.573	23	10.783	65	2.591	107	0.815
-18	62.456	24	10.383	66	2.513	108	0.795
-17	59.506	25	10.000	67	2.439	109	0.775
-16	56.714	26	9.633	68	2.366	110	0.757
-15	54.070	27	9.282	69	2.297	111	0.738
-14	51.565	28	8.945	70	2.229	112	0.720
-13	49.191	29	8.622	71	2.164	113	0.703
-12	46.940	30	8.313	72	2.102	114	0.686
-11	44.806	31	8.016	73	2.041	115	0.670
-10	42.782	32	7.731	74	1.982	116	0.654
-9	40.861	33	7.458	75	1.925	117	0.639
-8	39.038	34	7.196	76	1.871	118	0.624
-7	37.306	35	6.944	77	1.818	119	0.609
-6	35.662	36	6.703	78	1.766	120	0.595
-5	34.099	37	6.471	79	1.717	121	0.581
-4	32.615	38	6.248	80	1.669	122	0.567
-3	31.203	39	6.035	81	1.622	123	0.554
-2	29.860	40	5.829	82	1.578	124	0.542
-1	28.583	41	5.631	83	1.534	125	0.529
0	27.368	42	5.442	84	1.492		
1	26.212	43	5.259	85	1.451		

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
10K3435DM010	TPE OM Probe Ø 5 x 20mm Length 1 meter	10,000	1000*
10K3435DM020	TPE OM Probe Ø 5 x 20mm Length 2 meters	10,000	1000*
10K3435DM030	TPE OM Probe Ø 5 x 20mm Length 3 meters	10,000	1000*

* For quantities less than Minimum Order Quantity – contact distribution

NORTH AMERICA

Measurement Specialties, Inc.,
a TE Connectivity Company
1711 139th Lane NW
Andover, MN 55304
Tel: +1 763 689 4870
Fax: +1 763 689 5033
customer care.ando@te.com

EUROPE

Measurement Specialties (Europe), Ltd.,
a TE Connectivity Company
Ballybrit Business Park
Galway Ireland
Tel : +353-91-753238
Fax : +353-91-770789
Email: customer care.glwy@te.com

ASIA

Measurement Specialties (China), Ltd.,
a TE Connectivity Company
No. 368 Wulian 1st Road
Gongxing Town
Shuangliu, Chengdu
Sichuan, 610200
China
Tel: +86 (0) 28 8573 9088
Fax: +86 (0) 28 8573 9070
Email: customer care.chdu@te.com

te.com/sensorsolutions

Measurement Specialties, Inc., a TE Connectivity company.

Measurement Specialties (MEAS), American Sensor Technologies (AST), TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2016 TE Connectivity Ltd. family of companies All Rights Reserved.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[GA10K3435DM010](#)