



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

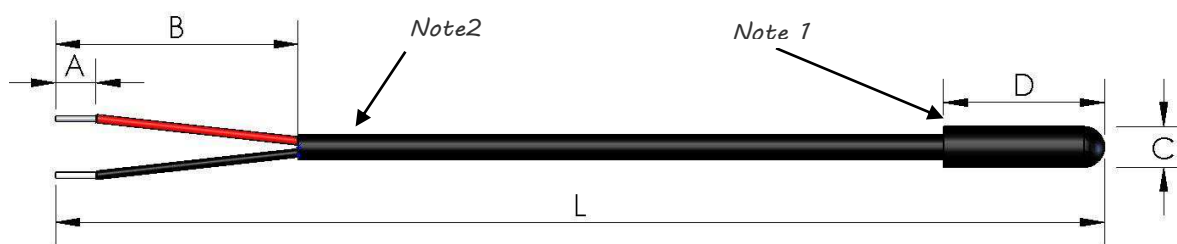
This assembly consists of a DO-35 NTC thermistor soldered to a TPE extension cable. The sensor and the extension cable are moulded together as one hot vulcanised unit to give a high degree of protection against water/moisture ingress.

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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		

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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