

Performance Characteristics

- Flexible fluorocarbon housing
- Water and dustproof
- Excellent vibration and shock resistance
- High dielectric strength
- According to DIN EN IEC 60751

Application Examples

- E-motors for mobility
- Industrial torque motors
- Charging stations and sockets
- Analytical equipment
- HVAC

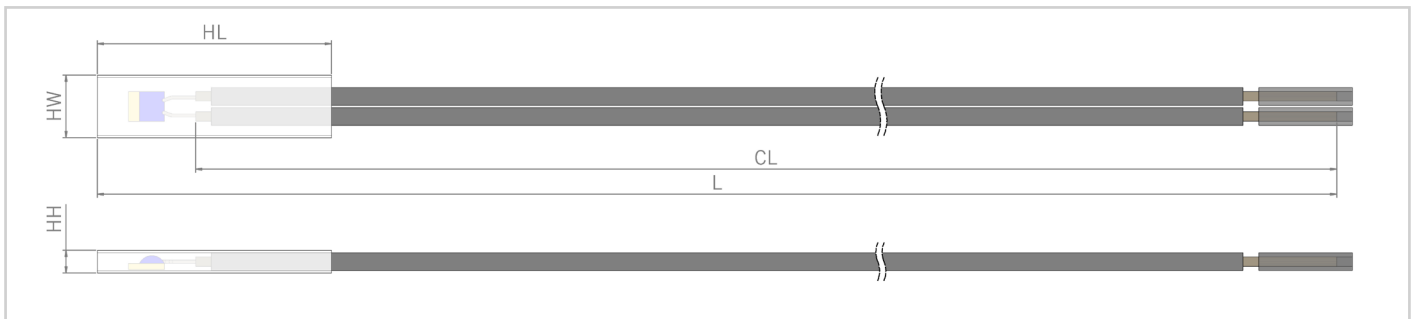


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Dimensions and Materials

No.	Product Type	Element Nominal Resistance R_0 [Ω]	Dimensions and Tolerances (mm)					Conductor			Order Number
			HL	W	H	CL	L	Core (AWG)	Insulation	Color	
1	EC1540-R19	Pt1000 / F 0.3	15 +3 -2	4 +0.2 -0.5	1.85 +0.2 -0.3	250 ± 10	257 ± 10	24/19 NPC UL1180 twisted	PTFE	Red/ Brown	5220090
2	EC1540-R16	Pt1000 / F 0.3	15 +3 -2	4 -1	1.6 ± 0.2	994 ± 10	1000 ± 10	24/19 NPC UL10581	PTFE	White	5220069
3	EC1540-R15	Pt1000 / F 0.3	15 +3 -2	4 -1	1.45 ± 0.25	243 ± 5	250 ± 5	24/19 NPC	PTFE	Red	5220099

Performance Data

No.	Temperature Range	Dielectric Strengths	Pull Force [N]	Conductor Resistance [Ω /m]	Application Dielectric	Order Number
1	-50 °C to +250 °C	3 kV / 60 s	> 30	0.041 \pm 25 %	Multi-Purpose	5220090
2	-50 °C to +250 °C	3 kV / 60 s	> 30	0.08 \pm 10 %	Multi-Purpose	5220069
3	-50 °C to +200 °C (short term +250 °C)	3 kV / 60 s	> 30	0.085 \pm 10 %	Multi-Purpose	5220099

Temperature Coefficient

TCR = 3850 ppm/K

Measuring Current

Pt1000 Ω : 0.1 to 0.3 mA
 (self-heating has to be considered)

Self-Heating (Sensor Element)

0.4 K/mW at 0 °C

Customization Options

- All outer dimensions
- Conductor size and material
- Sensor resistance
- Connectors
- Certifications (e.g. IMDS, PPAP, IP rating)

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