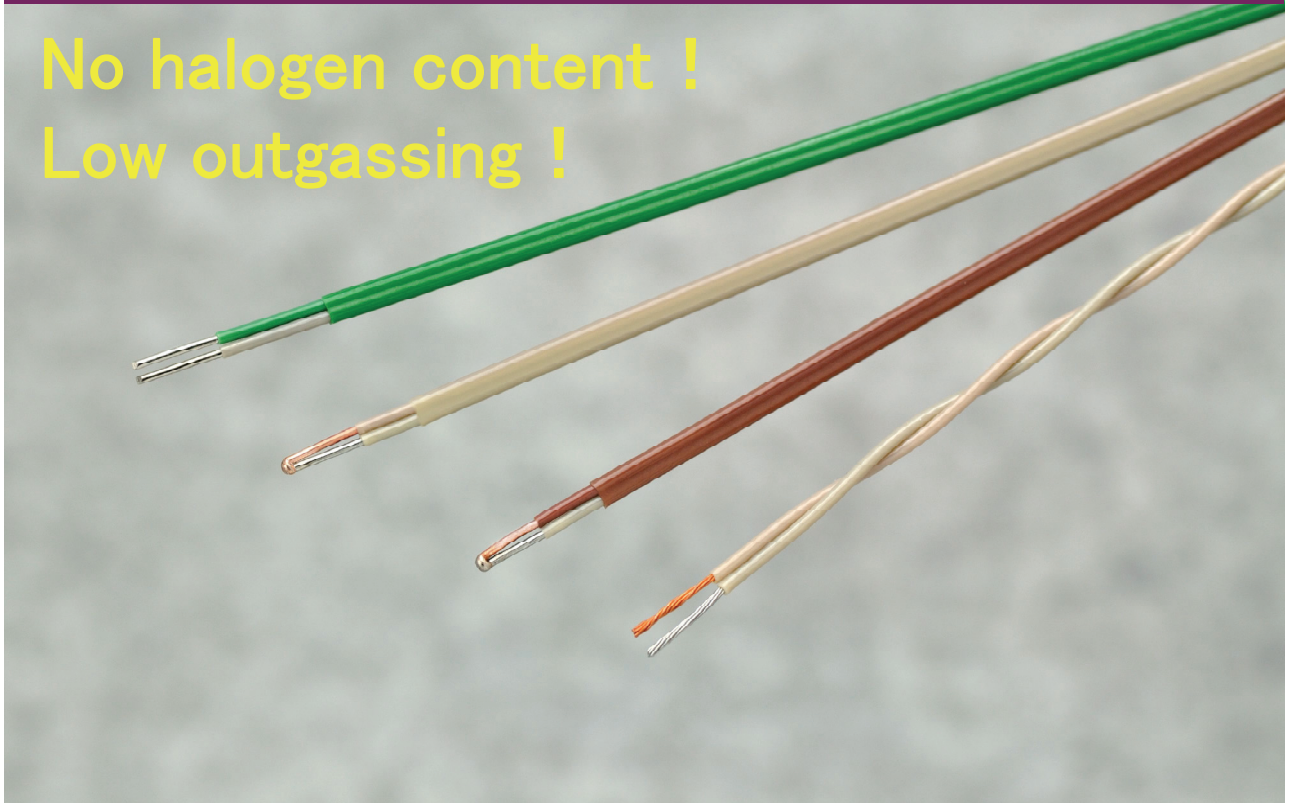


No halogen content !
Low outgassing !



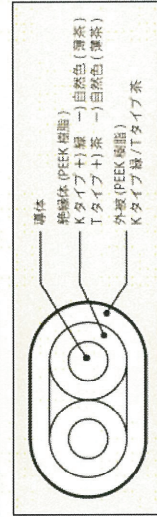
Features of PEEK resin

- No halogen content, Low outgassing
- Low elution, Low toxic-gas content
 - High heat resistance (260°C)
 - High melting point (340°C)
- Flame resistance
(UL94-V0 certified without adding a flame retardant)
- Radiation resistance
High sliding performance

We provide flat duplex insulated thermocouple wire consisting of a pair of conductors individually PEEK-resin insulated, and then PEEK-resin sheathed. In response to the needs of many of our customers, we provide Types K and T, with 0.32-mm and 0.65-mm conductors, respectively. We can also make products compliant with Class 1. Please specify when placing an order. At your request, we perform end welding, molding, and terminal treatment. We can also make PEEK insulated, heat-resistant wire. Please feel free to contact us.

《Materials and Compositions》 type K

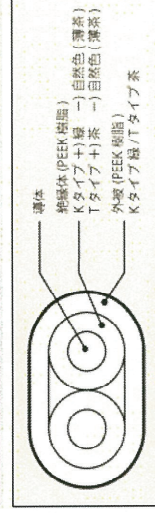
Attribute	Unit	Specifications/composition	Material/remarks
Conductor	—	No treatment	Positive side: Nickel chrome alloy Negative side: Nickel alloy
Composition	Pcs/mm	1/0.32	
Outside diameter	mm	Approx. 0.32	Approx. 0.65
Thickness	mm	Approx. 0.15	Approx. 0.15
Outside diameter	mm	Approx. 0.62	Approx. 0.95
Insulation	—	(+) Green, (-) Natural color (light brown)	PEEK resin
Identification	mm	Approx. 0.6 x 1.2	Approx. 1.0 x 1.9
Parallel two-conductor outside diameter	mm	Approx. 0.15	Approx. 0.15
Thickness	mm	Approx. 0.15	Approx. 1.3 x 2.2
Outside diameter	mm	Approx. 0.9 x 1.5	Approx. 1.3 x 2.2
Identification	—	Green	JIS C 1610 2012.8.6.1, Table 9
Standard overall diameter	mm	Approx. 0.9 x 1.5	Approx. 1.3 x 2.2
Reciprocating conductor (20°C, standard)	Ω/m	12.1	2.92
Insulation resistance (20°C, minimum)	MΩ·km	500	JIS C 3005 4.4
Electrical Characteristics	°C	From -40°C to less than +333°C	JIS C 3005 4.7
Tolerance	°C	From 333°C to less than 1200°C	JIS C 1602 K Class 2
Standard thermal electromotive force at 100°C	μV	±2.5	t represents the measured temperature.
Withstand voltage (AC/sparks)	V	0.0075× t	4096
Electromotive force inspection temperature	°C	3000	Insulation only JIS C 3005 4.6
Normal-use temperature limit for thermocouple component wire	°C	100	
Overheating temperature limit for thermocouple component wire	°C	400	650
Continuous use temperature for sheath materials	°C	500	850
Estimated weight	kg/km	-45 ~ +260 -45 to +260	3 9



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 TEL : +81-42-753-4151 (main switchboard)
 FAX : +81-42-753-4460

《Materials and Compositions》 type T

Attribute	Unit	Specifications/composition	Material/remarks
Conductor	—	No treatment	Positive side: Copper Negative side: Copper nickel alloy
Composition	Pcs/mm	1/0.32	1/0.65
Outside diameter	mm	Approx. 0.32	Approx. 0.65
Thickness	mm	Approx. 0.15	Approx. 0.15
Outside diameter	mm	Approx. 0.62	Approx. 0.95
Insulation	—	(+) Brown, (-) Natural color (light brown)	PEEK resin
Identification	mm	Approx. 0.6 x 1.2	Approx. 1.0 x 1.9
Parallel two-conductor outside diameter	mm	Approx. 0.15	Approx. 0.15
Thickness	mm	Approx. 0.15	Approx. 1.3 x 2.2
Outside diameter	mm	Approx. 0.9 x 1.5	Approx. 1.3 x 2.2
Identification	—	Brown	JIS C 1610 2012.8.6.1, Table 9
Standard overall diameter	mm	Approx. 0.9 x 1.5	Approx. 1.3 x 2.2
Reciprocating conductor resistance (20°C, standard)	Ω/m	6.17	1.5
Insulation resistance (20°C, minimum)	MΩ·km	500	JIS C 3005 4.7
Electrical Characteristics	°C	From -40°C to less than +133°C	JIS C 1602 T Class 2
Tolerance	°C	From 133°C to less than 350°C	t represents the measured temperature.
Standard thermal electromotive force at 100°C	μV	±1	4279
Withstand voltage (AC/sparks)	V	3000	Insulation only JIS C 3005 4.6
Electromotive force inspection temperature	°C	100	
Normal-use temperature limit for thermocouple component wire	°C	200	200
Overheating temperature limit for thermocouple component wire	°C	250	250
Continuous use temperature for sheath materials	°C	-45 to +260	
Estimated weight	kg/km	3	9



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