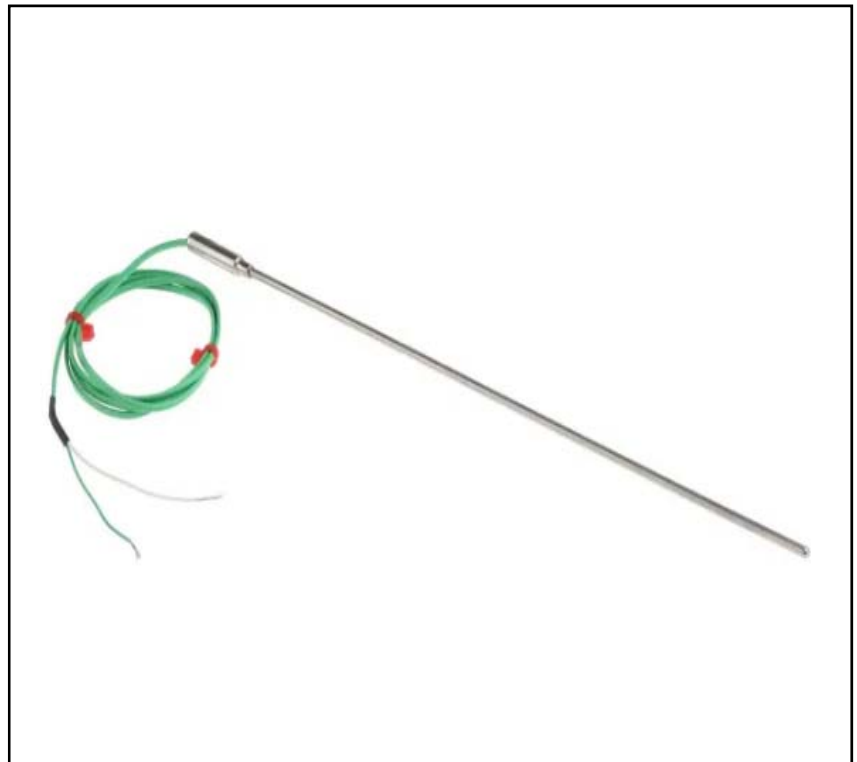


FEATURES

- Durable 310 stainless steel probe sheath
- IEC 584 class 1 tolerance for optimum accuracy
- Mineral insulation for durability and high performance
- Insulated hot junction for reduction in electrical interference
- Plain pot seal with a temperature rating of 200°C.

RS PRO Type K Thermocouple 250mm Length, 3mm Diameter → +1100°C

RS Stock No.: 397-1270



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

From RS Pro a range of type K thermocouple temperature sensors that conform to IEC 584 standards with class 1 tolerance for optimum accuracy. These sensors or probes have a durable construction and feature a stainless steel 310 probe sheath and a PFA insulated lead. The mineral insulated flexible probe sheath can be bent and formed to suit a wide range of applications. The thermocouple has a single element insulated hot junction for a reduction in electrical interference and a plain pot seal with a temperature rating of 200°C.

General Specifications

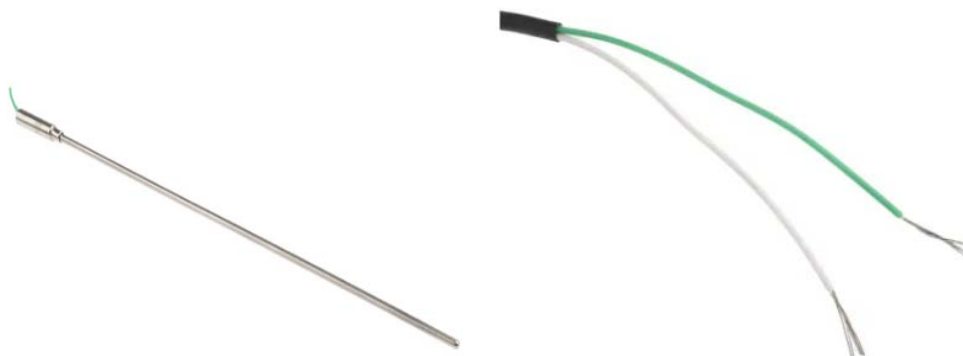
| | |
|--------------------------------------|--|
| Thermocouple Type | Type K |
| Temperature Measurement Range | -40°C to 1100°C |
| Construction | Flexible mineral insulated probe with stainless steel sheath, plain pot seal & 1 metre extension cable |
| Measuring Junction | Single element, junction insulated from sheath |
| Application | General purpose, thermocouple probes include heat exchangers, power stations, brick and cement kilns, heat treatment and annealing furnaces, thermostats, food thermometers, vehicle diagnostics and in laboratories |

Mechanical Specifications

| | |
|-------------------------------------|--------------------------------------|
| Probe Diameter | 3mm |
| Probe Length | 250mm |
| Probe Body Material | Stainless Steel |
| Insulation / Sheath Material | Mineral insulation |
| Termination Type | Cable |
| Compensating Cable Length | 1m |
| Cable Insulation | PFA Teflon insulated flat pair cable |

Approvals

| | |
|----------------------------------|---------|
| Compliance/Certifications | IEC 584 |
| Standards Met | IEC |



| T/C Type | Conductors | Length | Termination | +Positive tail wire | -Negative tail wire code | Allied Code | RS order Code |
|----------|------------|----------|-------------|---------------------|--------------------------|-------------|---------------|
| 'K' | 1/0.2mm | 1 metre | Mini plug | Green | White | 70643600 | 363-0250 |
| 'K' | 1/0.2mm | 2 metre | Mini plug | Green | White | | 110-4482 |
| 'K' | 1/0.2mm | 5 metre | Mini plug | Green | White | | 123-6306 |
| 'K' | 1/0.2mm | 10 metre | Mini plug | Green | White | | 123-6307 |
| 'J' | 1/0.2mm | 1 metre | Mini plug | Black | White | 70643599 | 363-0244 |
| 'J' | 1/0.2mm | 2 metre | Mini plug | Black | White | | 123-6308 |
| 'J' | 1/0.2mm | 5 metre | Mini plug | Black | White | | 123-6309 |
| 'J' | 1/0.2mm | 10 metre | Mini plug | Black | White | | 123-6310 |
| 'T' | 1/0.2mm | 1 metre | Mini plug | Brown | White | 70643601 | 363-0266 |
| 'T' | 1/0.2mm | 2 metre | Mini plug | Brown | White | | 123-6311 |
| 'T' | 1/0.2mm | 5 metre | Mini plug | Brown | White | | 123-6312 |
| 'T' | 1/0.2mm | 10 metre | Mini plug | Brown | White | | 123-6313 |

| | Conductors | Cores | Jacket | Reel Length | Allied Code | RS order code |
|-------------------|------------|---------------|--------|-------------|-------------|---------------|
| Extension: | | | | | | |
| KX | 7/0.2mm | +Green/-White | Green | 10 metres | 70657084 | 827-5615 |
| KX | 7/0.2mm | +Green/-White | Green | 25 metres | 70641729 | 236-3820 |
| KX | 7/0.2mm | +Green/-White | Green | 50 metres | 70657085 | 827-5619 |
| KX | 7/0.2mm | +Green/-White | Green | 100 metres | 70646156 | 611-7889 |
| KX | 7/0.2mm | +Green/-White | Green | 200 metres | 70657088 | 827-5628 |
| JX | 7/0.2mm | +Black/-White | Black | 10 metres | 70641640 | 219-4753 |
| JX | 7/0.2mm | +Black/-White | Black | 25 metres | 70657078 | 827-5592 |
| JX | 7/0.2mm | +Black/-White | Black | 50 metres | 70657079 | 827-5596 |
| JX | 7/0.2mm | +Black/-White | Black | 100 metres | 70641737 | 236-3915 |
| JX | 7/0.2mm | +Black/-White | Black | 200 metres | 70657081 | 827-5606 |
| TX | 7/0.2mm | +Brown/-White | Brown | 10 metres | 70641637 | 219-4703 |
| TX | 7/0.2mm | +Brown/-White | Brown | 25 metres | 70641734 | 236-3870 |
| TX | 7/0.2mm | +Brown/-White | Brown | 50 metres | 70657095 | 827-5653 |
| TX | 7/0.2mm | +Brown/-White | Brown | 100 metres | 70651749 | 762-1146 |
| TX | 7/0.2mm | +Brown/-White | Brown | 200 metres | 70657098 | 827-5662 |
| NX | 7/0.2mm | +Pink/-White | Pink | 10 metres | 70641635 | 219-4668 |
| NX | 7/0.2mm | +Pink/-White | Pink | 25 metres | 70657091 | 827-5637 |
| NX | 7/0.2mm | +Pink/-White | Pink | 50 metres | 70657089 | 827-5631 |
| NX | 7/0.2mm | +Pink/-White | Pink | 100 metres | 70657092 | 827-5640 |

| T/C Type | Conductors | Cores | Reel Length | Allied code | RS order code |
|----------|------------|--------------|-------------|-------------|-----------------|
| KX | 1/0.2mm | +Yellow/-Red | 25 metres | 70656106 | 814-0030 |
| KX | 1/0.2mm | +Yellow/-Red | 50 metres | 70656111 | 814-0049 |
| KX | 1/0.2mm | +Yellow/-Red | 100 metres | 70656109 | 814-0042 |
| KX | 7/0.2mm | +Yellow/-Red | 25 metres | 70656110 | 814-0046 |
| KX | 7/0.2mm | +Yellow/-Red | 50 metres | 70656113 | 814-0055 |
| KX | 7/0.2mm | +Yellow/-Red | 100 metres | 70656114 | 814-0058 |
| KX | 1/0.3mm | +Yellow/-Red | 25 metres | 70656104 | 814-0024 |
| KX | 1/0.3mm | +Yellow/-Red | 50 metres | 70656107 | 814-0033 |
| KX | 1/0.3mm | +Yellow/-Red | 100 metres | 70656108 | 814-0036 |
| TX | 1/0.3mm | +Blue/-Red | 25 metres | 70656121 | 814-0080 |
| TX | 1/0.3mm | +Blue/-Red | 50 metres | 70656126 | 814-0099 |
| TX | 1/0.3mm | +Blue/-Red | 100 metres | 70656124 | 814-0092 |
| TX | 1/0.2mm | +Blue/-Red | 25 metres | 70656125 | 814-0096 |
| TX | 1/0.2mm | +Blue/-Red | 50 metres | 70656128 | 814-0106 |
| TX | 1/0.2mm | +Blue/-Red | 100 metres | 70656129 | 814-0109 |

| | Conductors | Cores | Jacket | Reel Length | Allied Code | RS order code |
|----------------------|------------|----------------|--------|-------------|-------------|-----------------|
| Compensating: | | | | | | |
| VX (KCB) | 7/0.2mm | +Green/-White | Green | 10 metres | 70657082 | 827-5609 |
| VX (KCB) | 7/0.2mm | +Green/-White | Green | 25 metres | 70641629 | 219-4551 |
| VX (KCB) | 7/0.2mm | +Green/-White | Green | 50 metres | 70657080 | 827-5603 |
| VX (KCB) | 7/0.2mm | +Green/-White | Green | 100 metres | 70641630 | 219-4573 |
| VX (KCB) | 7/0.2mm | +Green/-White | Green | 200 metres | 70657083 | 827-5612 |
| VX (KCB) | 13/0.2mm | +Green/-White | Green | 10 metres | 70657086 | 827-5621 |
| VX (KCB) | 13/0.2mm | +Green/-White | Green | 25 metres | 70657087 | 827-5625 |
| VX (KCB) | 13/0.2mm | +Green/-White | Green | 50 metres | 70657090 | 827-5634 |
| VX (KCB) | 13/0.2mm | +Green/-White | Green | 100 metres | 70651750 | 762-1152 |
| U (RCA) | 7/0.2mm | +Orange/-White | Orange | 10 metres | 70657096 | 827-5656 |
| U (RCA) | 7/0.2mm | +Orange/-White | Orange | 25 metres | 70646158 | 611-7902 |
| U (RCA) | 7/0.2mm | +Orange/-White | Orange | 50 metres | 70657097 | 827-5659 |
| U (RCA) | 13/0.2mm | +Orange/-White | Orange | 10 metres | 70641641 | 219-4769 |
| U (RCA) | 13/0.2mm | +Orange/-White | Orange | 25 metres | 70657093 | 827-5643 |
| U (RCA) | 13/0.2mm | +Orange/-White | Orange | 50 metres | 70657094 | 827-5647 |

| T/C Type | Conductors | Cores | Reel Length | Allied code | RS order code |
|----------|------------|---------------|-------------|-------------|-----------------|
| J | 1/0.2mm | +Black/-White | 25 metres | 70657194 | 827-5980 |
| J | 1/0.2mm | +Black/-White | 50 metres | 70657195 | 827-5984 |
| J | 1/0.315mm | +Black/-White | 25 metres | 70657198 | 827-5993 |
| J | 1/0.315mm | +Black/-White | 50 metres | 70657199 | 827-5996 |
| K | 1/0.315mm | +Green/-White | 25 metres | 70657200 | 827-6000 |
| K | 1/0.315mm | +Green/-White | 50 metres | 70657205 | 827-6019 |
| T | 1/0.315mm | +Brown/-White | 25 metres | 70657208 | 827-6028 |
| T | 1/0.315mm | +Brown/-White | 50 metres | 70657206 | 827-6022 |
| J | 1/0.508mm | +Black/-White | 25 metres | 70657197 | 827-5990 |
| J | 1/0.508mm | +Black/-White | 50 metres | 70657201 | 827-6003 |
| K | 1/0.508mm | +Green/-White | 25 metres | 70657203 | 827-6012 |
| K | 1/0.508mm | +Green/-White | 50 metres | 70657204 | 827-6016 |
| J | 7/0.2mm | +Black/-White | 25 metres | 70657202 | 827-6006 |
| K | 7/0.2mm | +Green/-White | 25 metres | 70657207 | 827-6025 |
| T | 7/0.2mm | +Brown/-White | 25 metres | 70657209 | 827-6031 |
| N | 7/0.2mm | +Pink/-White | 25 metres | 70657210 | 827-6034 |

| T/C Type | Conductors | Cores | Jacket | Reel Length | Allied code | RS order code |
|----------------------|------------|--------------|--------|-------------|-------------|-----------------|
| Extension: | | | | | | |
| KX | 7/0.2mm | +Yellow/-Red | Yellow | 25 m | 70656102 | 814-0018 |
| KX | 7/0.2mm | +Yellow/-Red | Yellow | 100 m | 70656105 | 814-0027 |
| KX | 7/0.2mm | +Yellow/-Red | Yellow | 200 m | 70656103 | 814-0020 |
| JX | 7/0.2mm | + White/-Red | Black | 25 m | 70656096 | 813-9995 |
| JX | 7/0.2mm | + White/-Red | Black | 100 m | 70656098 | 814-0005 |
| JX | 7/0.2mm | + White/-Red | Black | 200 m | 70656099 | 814-0008 |
| TX | 7/0.2mm | +Blue/-Red | Blue | 25 m | 70656119 | 814-0074 |
| TX | 7/0.2mm | +Blue/-Red | Blue | 100 m | 70656122 | 814-0083 |
| TX | 7/0.2mm | +Blue/-Red | Blue | 200 m | 70656123 | 814-0086 |
| Compensating: | | | | | | |
| VX (KCB) | 7/0.2mm | +Yellow/-Red | Yellow | 25 m | 70656127 | 814-0103 |
| VX (KCB) | 7/0.2mm | +Yellow/-Red | Yellow | 100 m | 70656130 | 814-0112 |
| VX (KCB) | 7/0.2mm | +Yellow/-Red | Yellow | 200 m | 70656131 | 814-0115 |