

### **FEATURES**

- Adjustable bayonet probe
- Rugged 316 stainless steel sheath for resistance to corrosion
- Grounded hot junction
- Fast response time
- Robust glass fibre stainless steel over braid wire

# RS PRO Type J Thermocouple 20mm Length, 6mm Diameter → +600°C

RS Stock No.: 324-1894



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 J thermocouple temperature sensors that conform to IEC 60584 standards. These Type J thermocouples have a durable design with glass fibre insulated wires surrounded by a stainless steel braid and a probe enclosed in a rugged 316 stainless sheath. The end of the probe is fitted with a spring loaded latch mounting 2 slot bayonet connector. This connector allows the thermocouple to be fitted securely. The grounded hot junction of this thermocouple allows it to have a fast response time

### **General Specifications**

Thermocouple Type	Type J
Temperature Measurement Range	0°C to 600°C
Construction	Bayonet lock 2 nick type A Ø10.5 x 14 mm, assembly on 250 mm long compression spring
Measuring Junction	Grounded
Response Time	0.7s
Application	General purpose. High temperature Oxidizing environment, applications where the thermocouple sensor tip is fitted directly into a drilled hole or recess in machinery. Typical applications include temperature measurement in the plastics and rubber industry where they are used in extrusion and moulding machinery

### **Mechanical Specifications**

Probe Diameter	6mm
Probe Length	20mm
Probe Body Material	316Stainless Steel
Insulation / Sheath Material	Glass Fibre
Termination Type	Cable
Compensating Cable Length	2.5m
Cable Insulation	Exterminable insulation steel braid



## **Approvals**

Compliance/Certifications	IEC 60584
Standards Met	RoHS Compliant
Hazardous Area Certification	RoHS Compliant



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### Other Dimensions:

Diameter Lock	5	6	8
Α	324-1844	324-1894	
В	324-1850	324-1901	324-1945
С	324-1866	324-1917	324-1951
D	324-1872		324-1967
E		324-1939	324-1973



T/C Type	Conductors	Length	Termination	+Positi tail wir		tive re 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
'n	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
′1′	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
T/C	Туре	Conductors	Cores		Reel Length	Allie	d code	RS order code
J		1/0.2mm	+Black/-White		25 metres	7065	7194	827-5980
J		1/0.2mm	+Black/-White		50 metres	7065	7195	827-5984
J		1/0.315mm	+Black/-White		25 metres	7065	7198	827-5993
J		1/0.315mm	+Black/-White		50 metres	7065	7199	827-5996
K		1/0.315mm	+Green/-White	2	25 metres	7065	7200	827-6000
K		1/0.315mm	+Green/-White		50 metres	7065	7205	827-6019
Т		1/0.315mm	+Brown/-White		25 metres		7208	827-6028
T		1/0.315mm	+Brown/-White		50 metres		7206	827-6022
J		1/0.508mm	+Black/-White		25 metres	7065	7197	827-5990
J		1/0.508mm	+Black/-White		50 metres		7201	827-6003
K		1/0.508mm	+Green/-White		25 metres		7203	827-6012
K		•					7204	827-6016
K		1/0.508mm	+Green/-White	=	50 metres	/065	7204	027-0010
J		7/0.2mm	+Black/-White		25 metres	7065	7202	827-6006
K		7/0.2mm	+Green/-White	9	25 metres	7065	7207	827-6025
Т		7/0.2mm	+Brown/-White		25 metres		7209	827-6031
N		7/0.2mm	+Pink/-White		25 metres		7210	827-6034
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	Conductors	Cores	Jacket	Reel Length	Allied Code	RS order code
Extensi	on:					
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
	-1					
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

	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 KX KX KX KX	Conductors 1/0.2mm 1/0.2mm 1/0.2mm	Cores +Yellow/-Red +Yellow/-Red +Yellow/-Red	Reel Length 25 metres 50 metres 100 metres	Allied code 70656106 70656111 70656109	RS order code 814-0030 814-0049 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

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
Compensatir	ng:					
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