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THERMOCOUPLE CONNECTORS SELECTION GUIDE



INTERNATIONAL THERMOCOUPLE COLOUR CODES FOR CONNECTOR BODIES

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| Types | IEC | ANSI | JIS |
|-------------|-----|------|-----|
| J | | | |
| K | | | |
| T | | | |
| E | | | |
| N | | | |
| R/S | | | |
| B | | | |
| Cu (Copper) | | | |

All THERMOCOUPLE connectors use true thermocouple alloys for optimum accuracy, Except for Type R, S & B which use compensating alloys.

Thermocouple Pins

| Type | '+' Positive Pin | '-' Negative Pin |
|------|-----------------------------|------------------|
| J | Iron | Copper Nickel |
| K | Nickel Chromium | Nickel Alloy |
| T | Copper | Copper Nickel |
| E | Nickel Chromium | Copper Nickel |
| N | Nickel / Chromium / Silicon | Nickel Silicon |
| R/S | Copper | Copper Alloy |
| B | Copper | Copper |
| CU | Copper | Copper |

THERMOCOUPLE CONNECTORS

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Due to their location in often adverse environments such as hot working zones of furnaces and machinery, temperature sensors are liable to corrosion and mechanical damage. The need for occasional replacement is inevitable and the use of suitable connectors permits error-free fast, positive and reliable interchange with no risk of dangerous cross connection.

These thermocouple plugs and sockets have a technical and practical advantage over other types when terminating thermocouple wires or compensating cable in a wide variety of sizes. The wires are sandwiched between plates of thermocouple compatible material with a clamping screw, accommodating from very fine wires to stranded cables (up to 0.75mm²).

The connectors are colour coded and polarised and will mate with other makes of plugs and sockets. They can be mounted directly on to sheaths of up to 3mm diameter in the case of the miniature version or 1/4" (6.35mm) with the standard version by means of the brass bush available.

The sockets can be supplied as in-line or panel mounting versions with rectangular or circular fascias. The connectors are ruggedly made of glass filled thermoplastic for reliable operation up to 220°C sustained temperature.

The use of thermocouple compatible material eliminates measurement error due to the interconnection and the bright ISA colour coded body ensures clear identity of the type of thermocouple in use.

- Rugged construction
- In line or panel mounting connectors, single or multi-way
- Inexpensive
- PCB mounting available
- Duplex versions available
- Wide range of accessories available



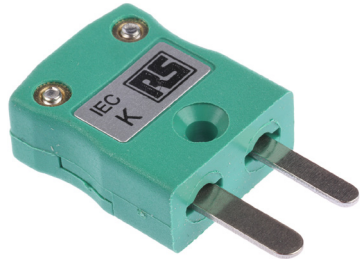
- Miniature and standard connectors
- Compensated connections ensure high accuracy
- Types K, J, T, E, N, R/S or Copper Copper
- Colour coding ensures clear identification (IEC, ANSI & JIS available)
- Compatible with all other makes of equivalent connectors
- Polarised connector pins guarantee correct polarity
- Withstand high temperature, 220°C continuous

MINIATURE THERMOCOUPLE CONNECTORS - PLUGS

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IEC Miniature Plug



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | IEC COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 455-9764 |
| J | Iron | Copper Nickel | | 455-9714 |
| T | Copper | Copper Nickel | | 455-9922 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 455-9843 |
| R/S | Copper | Copper Alloy | | 455-9887 |
| B | Copper | Copper | | 774-7181 |
| E | Nickel Chromium | Copper Nickel | | 774-7185 |
| Cu | Copper | Copper | | 455-9679 |

ANSI Miniature Plug



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | ANSI COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|------------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 769-1101 |
| J | Iron | Copper Nickel | | 769-1108 |
| T | Copper | Copper Nickel | | 769-1117 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 769-1105 |
| R/S | Copper | Copper Alloy | | 769-1114 |
| B | Copper | Copper | | 769-1094 |
| E | Nickel Chromium | Copper Nickel | | 769-1098 |
| Cu | Copper | Copper | - | - |

JIS Miniature Plug



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | JIS COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 771-8770 |
| J | Iron | Copper Nickel | | 771-8761 |
| T | Copper | Copper Nickel | | 771-8777 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | - | - |
| R/S | Copper | Copper Alloy | | 771-8773 |
| B | Copper | Copper | | 771-8764 |
| E | Nickel Chromium | Copper Nickel | | 771-8767 |
| Cu | Copper | Copper | - | - |

MINIATURE THERMOCOUPLE CONNECTORS - SOCKETS

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IEC Miniature Socket



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | IEC COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 455-9758 |
| J | Iron | Copper Nickel | | 455-9708 |
| T | Copper | Copper Nickel | | 455-9916 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 455-9821 |
| R/S | Copper | Copper Alloy | | 455-9859 |
| B | Copper | Copper | | 774-7194 |
| E | Nickel Chromium | Copper Nickel | | 774-7197 |
| Cu | Copper | Copper | | 455-9663 |

ANSI Miniature Socket



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | ANSI COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|------------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 769-1127 |
| J | Iron | Copper Nickel | | 769-1123 |
| T | Copper | Copper Nickel | | 769-1133 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 769-1136 |
| R/S | Copper | Copper Alloy | | 769-1139 |
| B | Copper | Copper | | 769-1111 |
| E | Nickel Chromium | Copper Nickel | | 769-1120 |
| Cu | Copper | Copper | - | - |

JIS Miniature Socket



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | JIS COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 771-8792 |
| J | Iron | Copper Nickel | | 771-8783 |
| T | Copper | Copper Nickel | | 771-8799 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | - | - |
| R/S | Copper | Copper Alloy | | 771-8795 |
| B | Copper | Copper | | 771-8786 |
| E | Nickel Chromium | Copper Nickel | | 771-8789 |
| Cu | Copper | Copper | - | - |

MINIATURE THERMOCOUPLE CONNECTORS - QUICK-WIRE PLUGS

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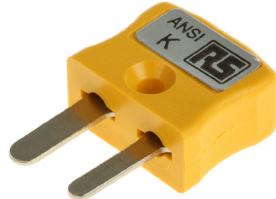


IEC Miniature Quick-wire Plugs



| TYPE | '+' CONTACT | '-' CONTACT | IEC COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 381-7435 |
| J | Iron | Copper Nickel | | 381-7413 |
| T | Copper | Copper Nickel | | 381-7457 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 381-7485 |
| R/S | Copper | Copper Alloy | | 381-7508 |
| B | Copper | Copper | | 774-7191 |
| E | Nickel Chromium | Copper Nickel | | 774-7201 |
| Cu | Copper | Copper | | 381-7520 |

ANSI Miniature Quick-wire Plugs



| TYPE | '+' CONTACT | '-' CONTACT | ANSI COLOUR CODE | STOCK NO |
|------|-----------------|---------------|------------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 769-1158 |
| J | Iron | Copper Nickel | | 769-1149 |
| T | Copper | Copper Nickel | | 769-1164 |
| R/S | Copper | Copper Alloy | | 769-1155 |
| E | Nickel Chromium | Copper Nickel | | 769-1145 |
| Cu | Copper | Copper | - | - |

JIS Miniature Quick-wire Plugs



| TYPE | '+' CONTACT | '-' CONTACT | JIS COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 771-8815 |
| J | Iron | Copper Nickel | | 771-8806 |
| T | Copper | Copper Nickel | | 771-8812 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | - | - |
| R/S | Copper | Copper Alloy | | 771-8818 |
| B | Copper | Copper | | 771-8809 |
| E | Nickel Chromium | Copper Nickel | | 771-8802 |
| Cu | Copper | Copper | - | - |

MINIATURE THERMOCOUPLE CONNECTORS - QUICK-WIRE SOCKETS

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IEC Miniature Quick-wire Sockets



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | IEC COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 381-7441 |
| J | Iron | Copper Nickel | | 381-7429 |
| T | Copper | Copper Nickel | | 381-7463 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 381-7491 |
| R/S | Copper | Copper Alloy | | 381-7514 |
| B | Copper | Copper | | 774-7194 |
| E | Nickel Chromium | Copper Nickel | | 774-7208 |
| Cu | Copper | Copper | | 774-3763 |

ANSI Miniature Quick-wire Sockets



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | ANSI COLOUR CODE | STOCK NO |
|------|-----------------|---------------|------------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 769-1173 |
| J | Iron | Copper Nickel | | 769-1170 |
| R/S | Copper | Copper Alloy | | 769-1186 |
| B | Copper | Copper | | 769-1167 |
| E | Nickel Chromium | Copper Nickel | | 769-1161 |
| Cu | Copper | Copper | - | - |

JIS Miniature Quick-wire Sockets



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | JIS COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 771-8837 |
| J | Iron | Copper Nickel | | 771-8828 |
| T | Copper | Copper Nickel | | 771-8834 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | - | - |
| B | Copper | Copper | | 771-8821 |
| Cu | Copper | Copper | - | - |

MINIATURE THERMOCOUPLE CONNECTORS - RECTANGULAR FASCIA SOCKET

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IEC Miniature Rectangular Fascia Socket



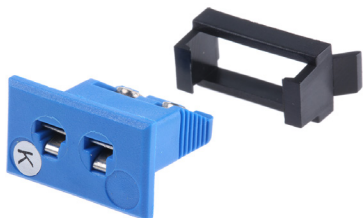
| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | IEC COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 455-9742 |
| J | Iron | Copper Nickel | | 455-9691 |
| T | Copper | Copper Nickel | | 455-9900 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 455-9815 |
| R/S | Copper | Copper Alloy | | 455-9871 |
| B | Copper | Copper | | 774-7217 |
| E | Nickel Chromium | Copper Nickel | | 774-7210 |
| Cu | Copper | Copper | | 455-9657 |

ANSI Miniature Rectangular Fascia Socket



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | ANSI COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|------------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 769-1199 |
| J | Iron | Copper Nickel | | 769-1195 |
| T | Copper | Copper Nickel | | 769-1206 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 769-1209 |
| R/S | Copper | Copper Alloy | | 769-1202 |
| B | Copper | Copper | | 769-1183 |
| Cu | Copper | Copper | - | - |

JIS Miniature Rectangular Fascia Socket



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | JIS COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 771-8859 |
| J | Iron | Copper Nickel | | 771-8840 |
| T | Copper | Copper Nickel | | 771-8856 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | - | - |
| B | Copper | Copper | | 771-8843 |
| E | Nickel Chromium | Copper Nickel | | 771-8846 |
| Cu | Copper | Copper | - | - |







MINIATURE THERMOCOUPLE CONNECTORS - PANEL MOUNT WITH STAINLESS STEEL BRACKET

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IEC Miniature Panel Mount with Stainless Steel Bracket



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | IEC COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|---|----------|
| K | Nickel Chromium | Nickel Alloy |  | 455-9792 |
| J | Iron | Copper Nickel |  | 455-9720 |
| T | Copper | Copper Nickel |  | 455-9944 |
| N | Nickel / Chromium / Silicon | Nickel Silicon |  | 774-7226 |
| R/S | Copper | Copper Alloy | - | - |
| B | Copper | Copper |  | 774-7214 |
| Cu | Copper | Copper |  | 774-3767 |

ANSI Miniature Panel Mount with Stainless Steel Bracket



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | ANSI COLOUR CODE | STOCK NO |
|------|-----------------|---------------|---|----------|
| K | Nickel Chromium | Nickel Alloy |  | 769-1221 |
| J | Iron | Copper Nickel |  | 769-1212 |
| T | Copper | Copper Nickel |  | 769-1237 |
| R/S | Copper | Copper Alloy |  | 769-1228 |
| Cu | Copper | Copper | - | - |

JIS Miniature Panel Mount with Stainless Steel Bracket



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | JIS COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|---|----------|
| K | Nickel Chromium | Nickel Alloy |  | 771-8871 |
| J | Iron | Copper Nickel |  | 771-8862 |
| T | Copper | Copper Nickel |  | 771-8878 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | - | - |
| Cu | Copper | Copper | - | - |

MINIATURE THERMOCOUPLE CONNECTORS - QUICK-WIRE PANEL MOUNT WITH STAINLESS STEEL BRACKET

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IEC Miniature Quick-wire Panel Mount with Stainless Steel Bracket



| TYPE | '+' CONTACT | '-' CONTACT | IEC COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|---|----------|
| K | Nickel Chromium | Nickel Alloy |  | 774-7236 |
| J | Iron | Copper Nickel |  | 774-7232 |
| T | Copper | Copper Nickel |  | 774-7242 |
| N | Nickel / Chromium / Silicon | Nickel Silicon |  | 774-7245 |
| Cu | Copper | Copper | - | - |

JIS Miniature Quick-wire Panel Mount with Stainless Steel Bracket



| TYPE | '+' CONTACT | '-' CONTACT | JIS COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|---|----------|
| K | Nickel Chromium | Nickel Alloy |  | 771-8871 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | - | - |
| R/S | Copper | Copper Alloy |  | 771-8896 |
| B | Copper | Copper |  | 771-8887 |
| E | Nickel Chromium | Copper Nickel |  | 771-8880 |
| Cu | Copper | Copper | - | - |

MINIATURE THERMOCOUPLE CONNECTORS - PCB SOCKET

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IEC Miniature PCB Socket



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | IEC COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 381-7564 |
| J | Iron | Copper Nickel | | 381-7558 |
| T | Copper | Copper Nickel | | 381-7570 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | - | - |
| R/S | Copper | Copper Alloy | - | - |
| Cu | Copper | Copper | | 611-8157 |

ANSI Miniature PCB Socket



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | ANSI COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|------------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 769-1262 |
| J | Iron | Copper Nickel | | 769-1268 |
| T | Copper | Copper Nickel | | 769-1278 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 769-1271 |
| R/S | Copper | Copper Alloy | | 769-1274 |
| E | Nickel Chromium | Copper Nickel | | 769-1265 |
| Cu | Copper | Copper | - | - |

JIS Miniature PCB Socket



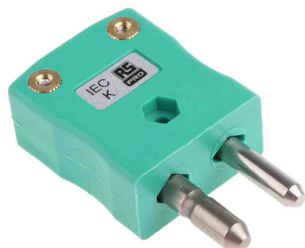
| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | JIS COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 771-8916 |
| J | Iron | Copper Nickel | | 771-8907 |
| T | Copper | Copper Nickel | | 771-8913 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | - | - |
| Cu | Copper | Copper | - | - |

STANDARD THERMOCOUPLE CONNECTORS - PLUGS

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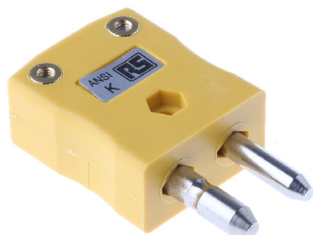


IEC Standard Plug



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | IEC COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 455-9988 |
| J | Iron | Copper Nickel | | 455-9966 |
| T | Copper | Copper Nickel | | 456-0051 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 456-0017 |
| R/S | Copper | Copper Alloy | | 456-0039 |
| B | Copper | Copper | | 774-7258 |
| Cu | Copper | Copper | | 774-3776 |

ANSI Standard Plug



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | ANSI COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|------------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 769-1293 |
| J | Iron | Copper Nickel | | 769-1284 |
| T | Copper | Copper Nickel | | 769-1300 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 769-1296 |
| R/S | Copper | Copper Alloy | | 769-1290 |
| B | Copper | Copper | | 769-1287 |
| E | Nickel Chromium | Copper Nickel | | 769-1280 |
| Cu | Copper | Copper | - | - |

JIS Standard Plug



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | JIS COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 771-8938 |
| J | Iron | Copper Nickel | | 771-8929 |
| T | Copper | Copper Nickel | | 771-8935 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | - | - |
| R/S | Copper | Copper Alloy | | 771-8931 |
| B | Copper | Copper | | 771-8922 |
| E | Nickel Chromium | Copper Nickel | | 771-8925 |
| Cu | Copper | Copper | - | - |

STANDARD THERMOCOUPLE CONNECTORS - SOCKETS

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IEC Standard Sockets



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | IEC COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 455-9972 |
| J | Iron | Copper Nickel | | 455-9950 |
| T | Copper | Copper Nickel | | 456-0045 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 456-0001 |
| R/S | Copper | Copper Alloy | | 456-0023 |
| E | Nickel Chromium | Copper Nickel | | 774-7264 |
| Cu | Copper | Copper | | 774-3779 |

ANSI Standard Sockets



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | ANSI COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|------------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 769-1319 |
| J | Iron | Copper Nickel | | 769-1316 |
| T | Copper | Copper Nickel | | 769-1325 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 769-1313 |
| R/S | Copper | Copper Alloy | | 769-1322 |
| B | Copper | Copper | | 769-1303 |
| Cu | Copper | Copper | - | - |

JIS Standard Sockets



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | JIS COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 771-8950 |
| J | Iron | Copper Nickel | | 771-8941 |
| T | Copper | Copper Nickel | | 771-8957 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | - | - |
| R/S | Copper | Copper Alloy | | 771-8953 |
| B | Copper | Copper | | 771-8944 |
| E | Nickel Chromium | Copper Nickel | | 771-8947 |
| Cu | Copper | Copper | - | - |

STANDARD THERMOCOUPLE CONNECTORS - QUICK-WIRE PLUGS

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IEC Standard Quick-wire Plugs



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | IEC COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 362-9991 |
| J | Iron | Copper Nickel | | 362-9963 |
| T | Copper | Copper Nickel | | 363-0014 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 363-0036 |
| R/S | Copper | Copper Alloy | | 363-0058 |
| E | Nickel Chromium | Copper Nickel | | 774-7276 |
| Cu | Copper | Copper | | 774-3776 |

ANSI Standard Quick-wire Plugs



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | ANSI COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|------------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 769-1335 |
| J | Iron | Copper Nickel | | 769-1331 |
| T | Copper | Copper Nickel | | 769-1341 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 769-1344 |
| R/S | Copper | Copper Alloy | | 769-1347 |
| Cu | Copper | Copper | - | - |

JIS Standard Quick-wire Plugs



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | JIS COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 771-8972 |
| J | Iron | Copper Nickel | | 771-8963 |
| T | Copper | Copper Nickel | | 771-8979 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | - | - |
| B | Copper | Copper | | 771-8966 |
| E | Nickel Chromium | Copper Nickel | | 771-8969 |
| Cu | Copper | Copper | - | - |

STANDARD THERMOCOUPLE CONNECTORS - QUICK-WIRE SOCKETS

Buy this and more at rspro.com



IEC Standard Quick-wire Sockets



| TYPE | '+' CONTACT | '-' CONTACT | IEC COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 363-0008 |
| J | Iron | Copper Nickel | | 362-9979 |
| T | Copper | Copper Nickel | | 363-0020 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 363-0042 |
| R/S | Copper | Copper Alloy | | 363-0064 |

ANSI Standard Quick-wire Sockets



| TYPE | '+' CONTACT | '-' CONTACT | ANSI COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|------------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 769-1366 |
| J | Iron | Copper Nickel | | 769-1357 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 769-1369 |
| R/S | Copper | Copper Alloy | | 769-1363 |
| Cu | Copper | Copper | - | - |

JIS Standard Quick-wire Sockets



| TYPE | '+' CONTACT | '-' CONTACT | JIS COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 771-8994 |
| J | Iron | Copper Nickel | | 771-8985 |
| T | Copper | Copper Nickel | | 771-8991 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | - | - |
| E | Nickel Chromium | Copper Nickel | | 771-8981 |
| Cu | Copper | Copper | - | - |

STANDARD THERMOCOUPLE CONNECTORS - FASCIA SOCKETS

Buy this and more at rspro.com



IEC Standard Fascia Sockets



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | IEC COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 219-4949 |
| J | Iron | Copper Nickel | | 219-5009 |
| T | Copper | Copper Nickel | | 219-4977 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 236-4053 |
| R/S | Copper | Copper Alloy | | 219-5037 |
| E | Nickel Chromium | Copper Nickel | | 774-7286 |

ANSI Standard Fascia Sockets



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | ANSI COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|------------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 769-1381 |
| J | Iron | Copper Nickel | | 769-1388 |
| T | Copper | Copper Nickel | | 769-1397 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 769-1385 |
| R/S | Copper | Copper Alloy | | 769-1394 |
| Cu | Copper | Copper | - | - |

JIS Standard Fascia Sockets



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | JIS COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 771-9010 |
| J | Iron | Copper Nickel | | 771-9001 |
| T | Copper | Copper Nickel | | 771-9017 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | - | - |
| R/S | Copper | Copper Alloy | | 771-9013 |
| B | Copper | Copper | | 771-9004 |
| Cu | Copper | Copper | - | - |





STANDARD THERMOCOUPLE CONNECTORS - PANEL MOUNT WITH STAINLESS STEEL BRACKET

Buy this and more at rspro.com



IEC Standard Panel Mount with Stainless Steel Bracket



| TYPE | '+' CONTACT | '-' CONTACT | IEC COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|---|----------|
| K | Nickel Chromium | Nickel Alloy |  | 456-0102 |
| J | Iron | Copper Nickel |  | 456-0089 |
| T | Copper | Copper Nickel |  | 774-7321 |
| N | Nickel / Chromium / Silicon | Nickel Silicon |  | 774-7292 |
| R/S | Copper | Copper Alloy |  | 774-7302 |
| Cu | Copper | Copper | - | - |

ANSI Standard Panel Mount with Stainless Steel Bracket



| TYPE | '+' CONTACT | '-' CONTACT | ANSI COLOUR CODE | STOCK NO |
|------|-----------------|---------------|---|----------|
| K | Nickel Chromium | Nickel Alloy |  | 769-1408 |
| J | Iron | Copper Nickel |  | 769-1404 |
| Cu | Copper | Copper | - | - |

STANDARD THERMOCOUPLE CONNECTORS - QUICK-WIRE PANEL MOUNT WITH STAINLESS STEEL BRACKET

Buy this and more at rspro.com



IEC Standard Quick-wire Panel Mount with Stainless Steel Bracket



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | IEC COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|---|----------|
| K | Nickel Chromium | Nickel Alloy |  | 774-7315 |
| J | Iron | Copper Nickel |  | 774-7311 |
| T | Copper | Copper Nickel |  | 774-7321 |
| N | Nickel / Chromium / Silicon | Nickel Silicon |  | 774-7324 |
| B | Copper | Copper |  | 774-7309 |
| Cu | Copper | Copper | - | - |

ANSI Standard Quick-wire Panel Mount with Stainless Steel Bracket



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | ANSI COLOUR CODE | STOCK NO |
|------|-----------------|---------------|---|----------|
| K | Nickel Chromium | Nickel Alloy |  | 769-1439 |
| J | Iron | Copper Nickel |  | 769-1420 |
| Cu | Copper | Copper | - | - |

JIS Standard Quick-wire Panel Mount with Stainless Steel Bracket



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | JIS COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|---|----------|
| J | Iron | Copper Nickel |  | 771-9045 |
| T | Copper | Copper Nickel |  | 771-9051 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | - | - |
| Cu | Copper | Copper | - | - |

STANDARD THERMOCOUPLE CONNECTORS - DUPLEX PLUG

Buy this and more at rspro.com



IEC Standard Duplex Plug



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | IEC COLOUR CODE | STOCK NO |
|------|-----------------|---------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 236-4069 |
| J | Iron | Copper Nickel | | 236-4081 |

ANSI Standard Duplex Plug



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | ANSI COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|------------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 769-1454 |
| J | Iron | Copper Nickel | | 769-1451 |
| T | Copper | Copper Nickel | | 769-1460 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 769-1458 |
| R/S | Copper | Copper Alloy | | 769-1467 |
| E | Nickel Chromium | Copper Nickel | | 769-1442 |
| Cu | Copper | Copper | - | - |

JIS Standard Duplex Plug



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | JIS COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 771-9076 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | - | - |
| B | Copper | Copper | | 771-9060 |
| Cu | Copper | Copper | - | - |

STANDARD THERMOCOUPLE CONNECTORS - DUPLEX SOCKET

Buy this and more at rspro.com



IEC Standard Duplex Socket



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | IEC COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 236-4075 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 774-7368 |
| B | Copper | Copper | | 774-7355 |

ANSI Standard Duplex Socket



| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | ANSI COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|------------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 769-1470 |
| T | Copper | Copper Nickel | | 769-1486 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | | 769-1489 |
| B | Copper | Copper | | 769-1464 |
| E | Nickel Chromium | Copper Nickel | | 769-1473 |
| Cu | Copper | Copper | - | - |

JIS Standard Duplex Socket



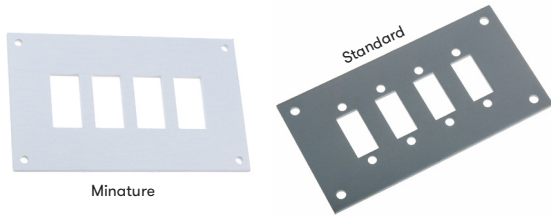
| TYPE | ‘+’ CONTACT | ‘-’ CONTACT | JIS COLOUR CODE | STOCK NO |
|------|-----------------------------|----------------|-----------------|----------|
| K | Nickel Chromium | Nickel Alloy | | 771-9098 |
| J | Iron | Copper Nickel | | 771-9089 |
| N | Nickel / Chromium / Silicon | Nickel Silicon | - | - |
| E | Nickel Chromium | Copper Nickel | | 771-9085 |
| Cu | Copper | Copper | - | - |

ACCESSORIES FOR THERMOCOUPLE CONNECTORS

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Miniature/Standard for Fascia Sockets Panel



| TO SUIT | STYLE | 2 WAY | 4 WAY | 6 WAY |
|-----------|-------|----------|----------|----------|
| Miniature | FF | 397-1674 | 397-1703 | 236-4132 |
| Standard | FF | 397-1731 | 397-1769 | 236-4154 |
| Miniature | SSPF | 611-8191 | 611-8214 | 611-8208 |
| Standard | SSPF | 611-8236 | 611-8258 | 611-8270 |

Strain Relief Grommet



| TO SUIT | PACK SIZE | 2 WAY |
|-----------------------|-----------|----------|
| Miniature or Standard | 25 | 666-7365 |

Cable Clamps



| TO SUIT | 2 WAY |
|-----------|----------|
| Miniature | 236-4104 |
| Standard | 236-4110 |
| Duplex | 313-9987 |

COLOUR CODES FOR THERMOCOUPLE EXTENSION & COMPENSATING WIRES/CABLES

Buy this and more at rspro.com



| Type | CONDUCTORS +/- | FORMER STANDARD | | | IEC 60584-3(2007) BS ENG60584-3(2008) | CABLE CODE |
|------|---|---------------------|-----------------------|------------------------|--|------------|
| | | BRITISH BS1843:1952 | AMERICAN ANSI/MC 96.1 | GERMAN DIN 43713/43714 | | |
| EX | Nickel chromium/Constantan (Nickel, Chromium/Copper Nickel, Chromel/Constantan, T1/Advance, NiCr/Constantan) | | | | | EX |
| J | Iron*/Contantan (Iron/Copper Nickel, Fe/Konst Iron/Advance, Fe/Constantan I/C) | | | | | JX |
| K | Nickel Chromium/Nickel Aluminium* (NC/NA, Chromel/Alumel, C/A, T1/T2, NiCr/Ni, NiCr/NiAl) | | | | | KX |
| N | Nicrosil/Nisil | | | | | NX NC |
| T | Copper/Constantan (Copper/Copper Nickel, Cu/Con, Copper/Advance) | | | | | TX |
| Vx | Copper/Constantan (Low nickel) (Cu/Constantan) Compensating for K (Cu/Constantan) | | | | | KCB |
| U | Copper/Copper Nickel Compensating for Platinum 10% or 13% Rhodium/Platinum (Codes S & R respectively) Copper/Cupronic Cu/CuNi, Copper/No. 11 alloy) | | | | | RCA SCA |

*Magnetic For Thermocouple connectors body colours are similar to outer sheath colours

THERMOCOUPLE COLOUR CODES FOR CONNECTOR BODIES

Buy this and more at rspro.com



| Type | J | K | T | E | N | R/S | B | Cu (Copper) |
|------|---|---|---|---|---|-----|---|-------------|
| IEC | | | | | | | | |
| ANSI | | | | | | | | |
| JIS | | | | | | | | |

All connectors use true thermocouple alloys for optimum accuracy, except for types R, S & B which use compensating alloys.