

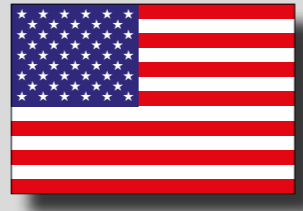


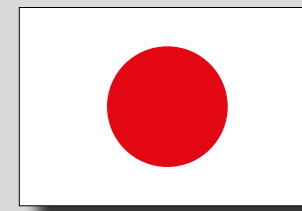
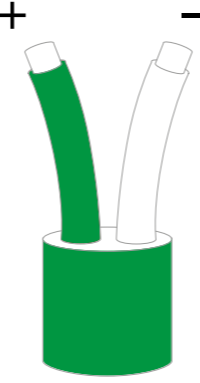
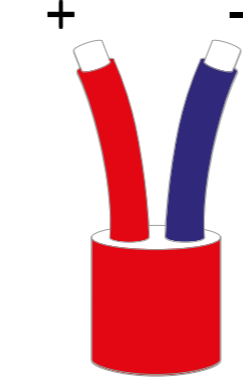
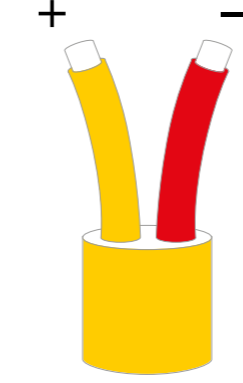
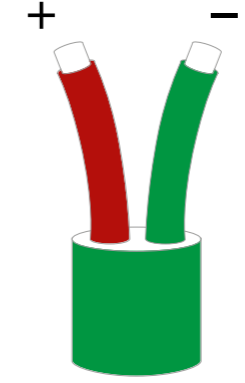
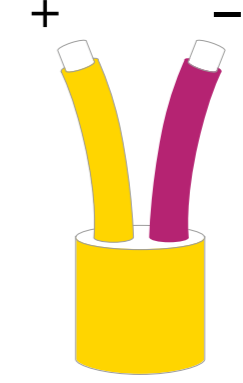
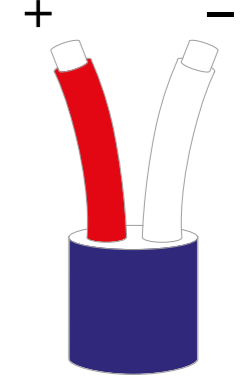
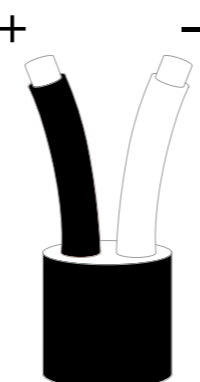
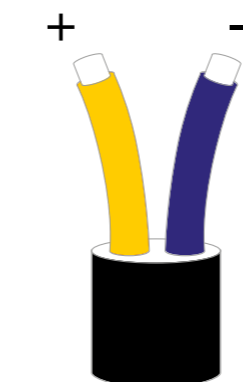
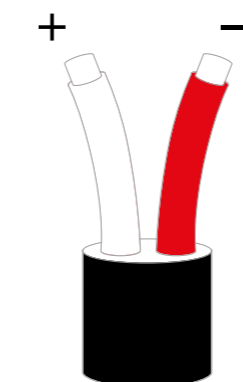
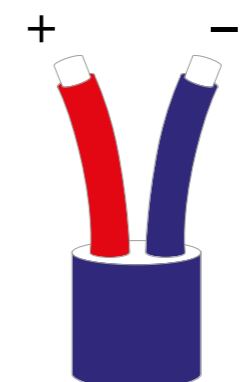
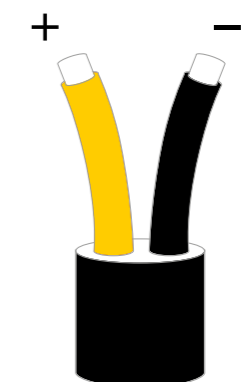
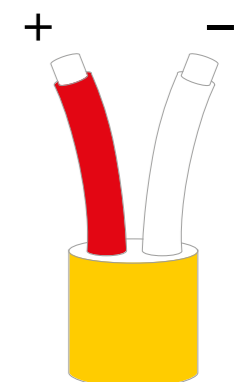
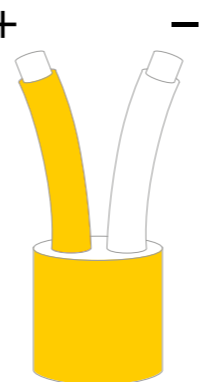
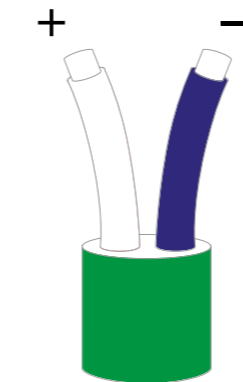

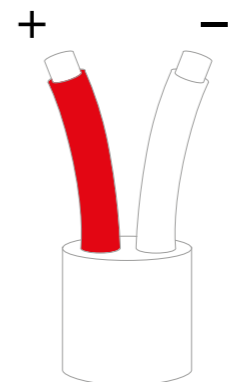
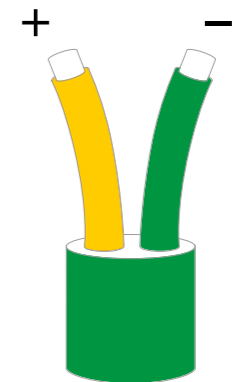
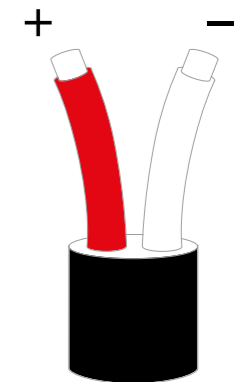
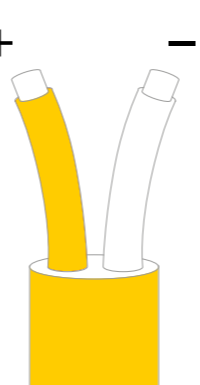
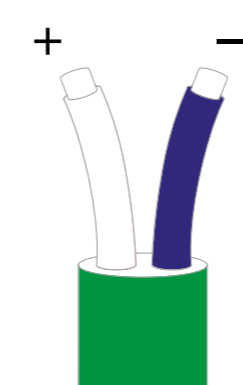

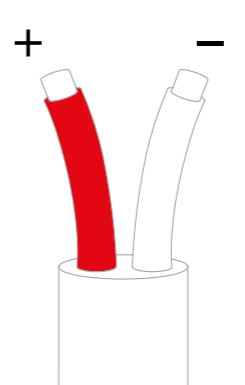
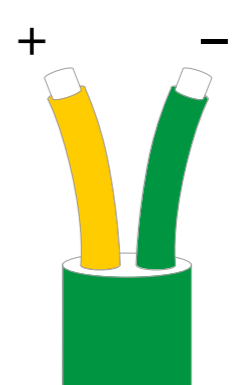
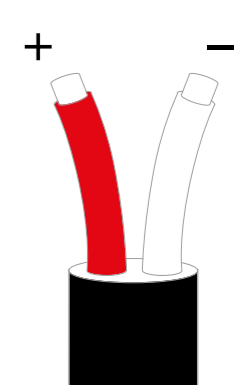
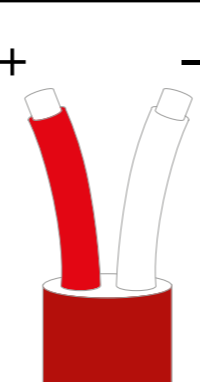
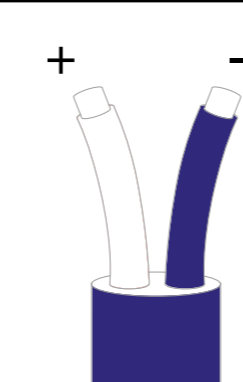
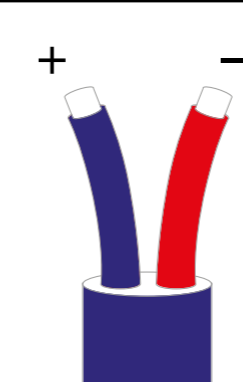

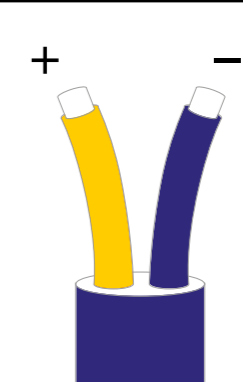
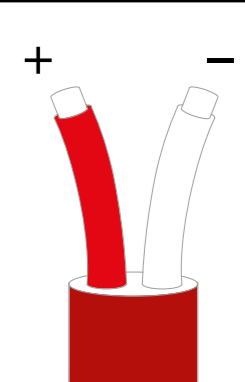
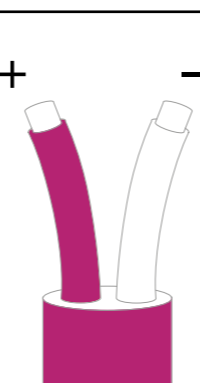
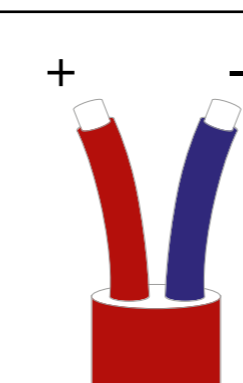
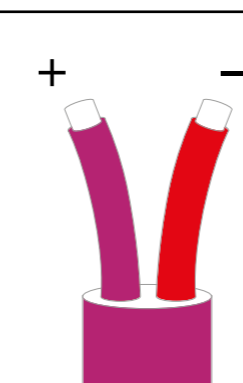
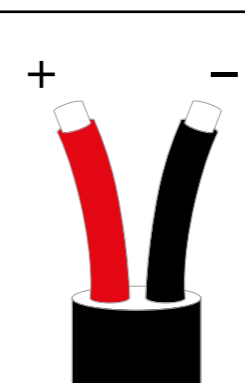
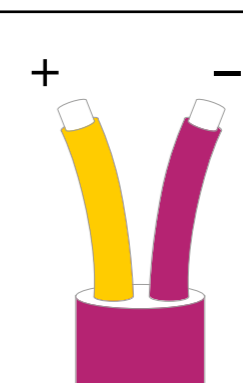
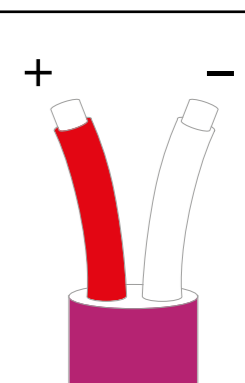
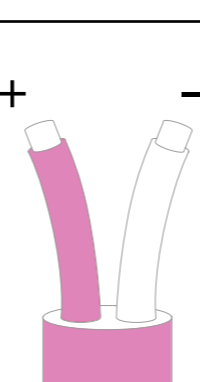
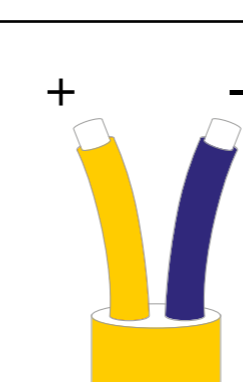
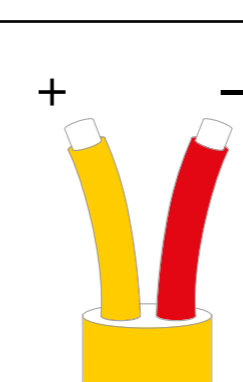
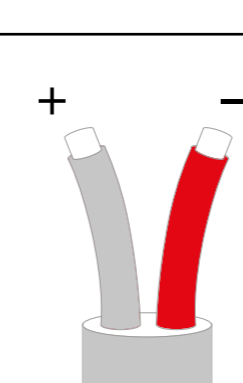
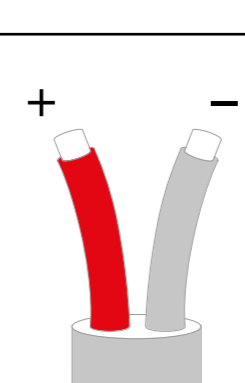
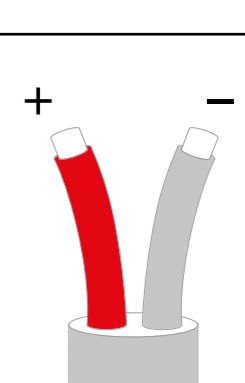


# Thermocouples

## International colour codes

| Type | Conductor Combinations      |                              | Approximate temperature ranges |                 | European Din IEC 584-3  | British BS1843  | American ANSI/MC96.1  | German DIN 43714  | French NF 42-323  | Japanese JS C 1610-1961   |
|------|-----------------------------|------------------------------|--------------------------------|-----------------|---|---|---|---|---|---|
|      | + leg                       | - leg                        | Continuous                     | Short Term      |     |    |    |    |    |    |
| K    | Nickel Chromium             | Nickel Aluminium (magnetic)  | 0 to +1100°C                   | -180 to +1350°C |   |   |   |   |   |   |
| J    | Iron (magnetic)             | Copper - Nickel              | +20 to +700°C                  | -180 to +750°C  |  |  |  |  |  |  |
| R    | Platinum - 13% Rhodium      | Platinum                     | 0 to +1600°C                   | -50 to +1700°C  |  |  |  |  |  |  |
| S    | Platinum - 10% Rhodium      | Platinum                     | 0 to +1550°C                   | -50 to +1700°C  |  |  |  |  |  |  |
| T    | Copper                      | Copper - Nickel              | -185 to +300°C                 | -250 to +400°C  |  |  |  |  |  |  |
| E    | Nickel - Chromium           | Copper - Nickel              | 0 to +800°C                    | -180 to +850°C  |  |  |  |  |  |  |
| N    | Nickel - Chromium - Silicon | Nickel - Silicon - Magnesium | 0 to +1150°C                   | -180 to +1350°C |  |  |  |   |   |   |
| B    | Platinum - 10% Rhodium      | Platinum                     | 50 to +1600                    | -50 to +1750    |   |   |  |  |   |  |

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