



**COMPENSATING CABLE**

IEC 60584-3

12 orderable sizes

|   |   |   |
|---|---|---|
| STANDARD<br><b>IEC 60584-3</b>              | VOLTAGE CLASS<br><b>Instrumentation signal circuit</b>          | TEMPERATURE CLASS<br><b>0 °C to +200 °C depending on compensating type and insulation</b> |
| CONDUCTOR<br><b>1/0.5 mm solid / 24 AWG</b> | INSULATION / JACKET<br><b>PVC, silicone or PFA outer jacket</b> |   |

**Construction**

- 1 ■ **Conductor (per core)** – Compensating alloy pair for Type R · 1 × Ø0.5 mm
- 2 ■ **Pair insulation** – PVC, silicone or PFA insulation selected by route temperature · Wall PVC, silicone or PFA insulation selected by route temperature mm
- 3 ■ **Filler** – Bedding / filler
- 4 ■ **Overall screen (OS)** – Al/polyester foil + drain
- 5 ■ **Sheath** – PVC, silicone or PFA outer jacket

**Size selection — all available cross-sections**

| Cable reference   | Thermocouple type | Cable grade        | Pair layout | Conductor construction  | Alloy combination                  | Insulation / sheath   | Screen / protection                         | Temperature range   | Tolerance class                    | OD guide |
|---|-------------------|--------------------|-------------|-------------------------|------------------------------------|---|---|---|------------------------------------|----------|
| Thermocouple compensating cable<br>KCA 1 pair 1/0.5 mm solid / 24 AWG | KCA               | Compensating grade | 1 pair      | 1/0.5 mm solid / 24 AWG | Compensating alloy pair for Type K | PVC, silicone or PFA insulation selected by route temperature | Screen-free pair or optional overall screen | 0 °C to +200 °C depending on compensating type and insulation | IEC 60584-3 compensating tolerance | 8.0 mm   |
| Thermocouple compensating cable<br>KCA 2 pair 1/0.5 mm solid / 24 AWG | KCA               | Compensating grade | 2 pair      | 1/0.5 mm solid / 24 AWG | Compensating alloy pair for Type K | PVC, silicone or PFA insulation selected by route temperature | Screen-free pair or optional overall screen | 0 °C to +200 °C depending on compensating type and insulation | IEC 60584-3 compensating tolerance | 9.1 mm   |
| Thermocouple compensating cable<br>KCB 1 pair 1/0.5 mm solid / 24 AWG | KCB               | Compensating grade | 1 pair      | 1/0.5 mm solid / 24 AWG | Compensating alloy pair for Type K | PVC, silicone or PFA insulation selected by route temperature | Screen-free pair or optional overall screen | 0 °C to +200 °C depending on compensating type and insulation | IEC 60584-3 compensating tolerance | 8.0 mm   |
| Thermocouple compensating cable<br>KCB 2 pair 1/0.5 mm solid / 24 AWG | KCB               | Compensating grade | 2 pair      | 1/0.5 mm solid / 24 AWG | Compensating alloy pair for Type K | PVC, silicone or PFA insulation selected by route temperature | Screen-free pair or optional overall screen | 0 °C to +200 °C depending on compensating type and insulation | IEC 60584-3 compensating tolerance | 9.1 mm   |
| Thermocouple compensating cable<br>RCA 1 pair 1/0.5 mm solid / 24 AWG | RCA               | Compensating grade | 1 pair      | 1/0.5 mm solid / 24 AWG | Compensating alloy pair for Type R | PVC, silicone or PFA insulation selected by route temperature | Screen-free pair or optional overall screen | 0 °C to +200 °C depending on compensating type and insulation | IEC 60584-3 compensating tolerance | 8.0 mm   |
| Thermocouple compensating cable<br>RCA 2 pair 1/0.5 mm solid / 24 AWG | RCA               | Compensating grade | 2 pair      | 1/0.5 mm solid / 24 AWG | Compensating alloy pair for Type R | PVC, silicone or PFA insulation                               | Screen-free pair or optional                | 0 °C to +200 °C depending on compensating                     | IEC 60584-3 compensating tolerance | 9.1 mm   |

| Cable reference  | Thermocouple type | Cable grade        | Pair layout | Conductor construction  | Alloy combination                  | Insulation / sheath   | Screen / protection                         | Temperature range   | Tolerance class                    | OD guide |
|--|-------------------|--------------------|-------------|-------------------------|------------------------------------|---|---|---|------------------------------------|----------|
|  |                   |                    |             |                         |                                    | selected by route temperature                                 | overall screen                              | type and insulation   |                                    |          |
| Thermocouple compensating cable RCB 1 pair 1/0.5 mm solid / 24 AWG | RCB               | Compensating grade | 1 pair      | 1/0.5 mm solid / 24 AWG | Compensating alloy pair for Type R | PVC, silicone or PFA insulation selected by route temperature | Screen-free pair or optional overall screen | 0 °C to +200 °C depending on compensating type and insulation | IEC 60584-3 compensating tolerance | 8.0 mm   |
| Thermocouple compensating cable RCB 2 pair 1/0.5 mm solid / 24 AWG | RCB               | Compensating grade | 2 pair      | 1/0.5 mm solid / 24 AWG | Compensating alloy pair for Type R | PVC, silicone or PFA insulation selected by route temperature | Screen-free pair or optional overall screen | 0 °C to +200 °C depending on compensating type and insulation | IEC 60584-3 compensating tolerance | 9.1 mm   |
| Thermocouple compensating cable SCA 1 pair 1/0.5 mm solid / 24 AWG | SCA               | Compensating grade | 1 pair      | 1/0.5 mm solid / 24 AWG | Compensating alloy pair for Type S | PVC, silicone or PFA insulation selected by route temperature | Screen-free pair or optional overall screen | 0 °C to +200 °C depending on compensating type and insulation | IEC 60584-3 compensating tolerance | 8.0 mm   |
| Thermocouple compensating cable SCA 2 pair 1/0.5 mm solid / 24 AWG | SCA               | Compensating grade | 2 pair      | 1/0.5 mm solid / 24 AWG | Compensating alloy pair for Type S | PVC, silicone or PFA insulation selected by route temperature | Screen-free pair or optional overall screen | 0 °C to +200 °C depending on compensating type and insulation | IEC 60584-3 compensating tolerance | 9.1 mm   |
| Thermocouple compensating cable SCB 1 pair 1/0.5 mm solid / 24 AWG | SCB               | Compensating grade | 1 pair      | 1/0.5 mm solid / 24 AWG | Compensating alloy pair for Type S | PVC, silicone or PFA insulation selected by route temperature | Screen-free pair or optional overall screen | 0 °C to +200 °C depending on compensating type and insulation | IEC 60584-3 compensating tolerance | 8.0 mm   |
| Thermocouple compensating cable SCB 2 pair 1/0.5 mm solid / 24 AWG | SCB               | Compensating grade | 2 pair      | 1/0.5 mm solid / 24 AWG | Compensating alloy pair for Type S | PVC, silicone or PFA insulation selected by route temperature | Screen-free pair or optional overall screen | 0 °C to +200 °C depending on compensating type and insulation | IEC 60584-3 compensating tolerance | 9.1 mm   |