

Connection Cable AR10 / 11 // 15 / 17 / 43

AR10 / AR11 / AR43 / AR15 / AR17:






Pre-assembled connection cable

Regulus RD to pyrometer

- 12 pin angle plug on pyrometer side,
- Applicable connector on Regulus side



Equipment Variations / Order Number:

| Connector pyrometer side | AR |
|---|------------------|
|  <p>with right-angle connector / push button</p> | AR10-05 (5 m) |
|  <p>with right-angle connector</p> | AR11-05 (5 m) |
|  <p>with straight connector</p> | AR43-05 (5 m) |
|  <p>with right-angle connector / push button and SC10 cable/ right-angle connector (0.5 m)</p> | AR15-05 (5 m) |
|  <p>with right-angle connector and SC10 cable / right-angle connector (0.5 m)</p> | AR17-05 (5 m) |
| AR..-xx (xx in 5-m increments) | |

Sensortherm reserves the right to make changes in scope of technical progress or further developments.

Technical Data

| | |
|-------------------------|---|
| Cable: | Twisted pairs, screened data transmission cable with color code acc. to DIN 47100, RoHS conform |
| Designation: | LiYwCYw (TP) |
| Conductor: | 7 x 2 x 0,14 mm ² + shield |
| Capacity: | 120 nF / km |
| Conductor resistance: | 142 Ω / km |
| Outer sheath: | PVC black, heat resistant |
| Temperature range: | -20°C up to +90°C, short-term +105°C |
| Outer diameter: | 7.1 mm +/-0.2 mm |
| Minimum bending radius: | flexible use: 110 mm; fixed installation: 55 mm |
| Burning rate: | flame-retardant to VDE 0482 - part 265-2-1 / IEC 6033-1-2 |

Pin assignments green connector for connection to Regulus socket X1 or X2



| Pins X1 | Pins X2 | Function | Cable colors |
|---------|---------|--|--------------|
| 1 | 13 | +24 V power supply for pyrometer | White |
| 2 | 14 | 0 V power supply for pyrometer (ground) | Brown |
| 3 | 15 | + Analog input 4–20 mA (+ Analog output 1 from pyrometer) | Green |
| 4 | 16 | - Analog input 4–20 mA (- Analog output 1 from pyrometer) | Yellow |
| 7 | 19 | Shield (connected only at the pyrometer, not at the Regulus, to prevent ground loops and damage by compensating currents) | Orange |
| 8 | 20 | Ground for pyrometer interface RS232 / RS485 | Red |
| 9 | 21 | TxD (RS232) or B(+) (RS485) to pyrometer (RxD (RS232) or B (RS485) from pyrometer) | Black |
| 10 | 22 | RxD (RS232) or A(-) (RS485) to pyrometer (TxD (RS232) or A (-) (RS485) from pyrometer) | Violet |
| 11 | 23 | TxD (RS232) or B(+) (RS485) to pyrometer (RxD (RS232) or B(+) (RS485) from pyrometer) | Grey-pink |
| 12 | 24 | RxD (RS232) or A(-) (RS485) to pyrometer (TxD (RS232) or A(-) (RS485) from pyrometer) | Red-blue |

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