



PVC Single Pair Thermocouple Wire (105°C)



Product application:

PVC Single Pair Thermocouple Wire is rated for use in cable tray conduit or direct burial applications

Product characteristic:

Construction:

- Solid or stranded thermocouple alloy
- Extruded high temperature 105°C PVC insulation
- When twisted shielded pair construction (SF), 100% aluminum-polyester tape with drain.
- Extruded PVC jacket

Technical:

- Continuous temperature rating: 105°C
- Minimum Bend Radius: insulation 3 x cable Ø overall 5 x cable Ø
- Limits of Error: Conforms to ASTM E230, IEC 584, and ANSI MC 96.1
- Color Code: Conforms to ANSI, IEC, JIS

Properties:

- Good dielectric mechanical strength and flexibility
- Service temperature up 105°C
- Good resistance to water, abrasion, oil and chemicals
- Economical, general use



High Temperature Thermocouple Cables

www.caledonian-cables.co.uk

- Rated for use in cable tray conduit or direct burial applications

Product specification:

Solid Conductor, Parallel Pair

| AWG | Strand | Insulation Thickness mm | | O.D. mm | Gross Weight kg/km |
|-----|--------|-------------------------|--------|-----------|--------------------|
| | | Primary | Jacket | | |
| 20 | Solid | 0.254 | 0.508 | 2.34/3.66 | 21 |
| 16 | Solid | 0.381 | 0.508 | 3.23/5.13 | 40 |
| 14 | Solid | 0.432 | 0.635 | 3.76/6.25 | 57 |
| 20 | Solid | 0.254 | 0.508 | 2.34/3.66 | 21 |
| 16 | Solid | 0.381 | 0.508 | 3.23/5.13 | 40 |
| 14 | Solid | 0.432 | 0.635 | 3.76/6.25 | 57 |

Stranded Conductor, Parallel Pair

| AWG | Strand | Insulation Thickness mm | | O.D. mm | Gross Weight kg/km |
|-----|--------|-------------------------|--------|-----------|--------------------|
| | | Primary | Jacket | | |
| 20 | 7/28 | 0.305 | 0.508 | 2.62/4.23 | 21 |
| 16 | 7/24 | 0.381 | 0.508 | 3.23/5.51 | 43 |
| 20 | 7/28 | 0.305 | 0.508 | 2.62/4.23 | 21 |
| 16 | 7/24 | 0.381 | 0.508 | 3.23/5.51 | 43 |

Solid Conductor, Shielded Pair

| AWG | Strand | Insulation Thickness mm | | O.D. mm | Gross Weight kg/km |
|-----|--------|-------------------------|--------|---------|--------------------|
| | | Primary | Jacket | | |
| 20 | Solid | 0.254 | 0.508 | 3.912 | 21 |
| 16 | Solid | 0.381 | 0.584 | 5.385 | 40 |
| 20 | Solid | 0.254 | 0.508 | 3.912 | 21 |
| 16 | Solid | 0.381 | 0.584 | 5.385 | 40 |



Stranded Conductor, Shielded Pair

| AWG | Strand | Insulation Thickness mm | | O.D. mm | Gross Weight kg/km |
|-----|--------|-------------------------|--------|---------|--------------------|
| | | Primary | Jacket | | |
| 20 | 7/28 | 0.305 | 0.508 | 4.47 | 24 |
| 16 | 7/24 | 0.406 | 0.584 | 5.69 | 43 |
| 20 | 7/28 | 0.305 | 0.508 | 4.47 | 24 |
| 16 | 7/24 | 0.406 | 0.584 | 5.69 | 43 |

Stranded with Filler

| AWG | Strand | Insulation Thickness mm | | O.D. mm | Gross Weight kg/km |
|-----|--------|-------------------------|--------|---------|--------------------|
| | | Primary | Jacket | | |
| 20 | 7/28 | 0.305 | 0.508 | 4.572 | 24 |
| 16 | 7/24 | 0.406 | 0.584 | 5.842 | 43 |
| 20 | 7/28 | 0.305 | 0.508 | 4.572 | 24 |
| 16 | 7/24 | 0.406 | 0.584 | 5.842 | 43 |