# A-101

## THERMOCOUPLE WIRE

### ALUMINA FIBER - ALUMINA FIBER INSULATED - 1200°C



ASTM E230/77, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Alumina Fiber Insulation |
| Construction | : | Flat |
| Outer Jacket | : | Alumina Fiber Insulation |
| Operating Temp. | : | 1200°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584. |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 1200°C
- ✓ High Temperature Range
- ✓ Higher Accuracy Same as Thermocouple
- ✓ Can Be Use as Thermocouple

### AVAILABLE OPTIONS

- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX.) (gm/meter) |
|---|---|---|---|---|---|---|---|
| A101 | 7 | 0.152 | 0.12 | 0.46 | Flat | 2.8 X 1.6 | 8 |
| A102 | 7 | 0.160 | 0.14 | 0.48 | Flat | 2.9 X 1.7 | 9 |
| A103 | 1 | 0.510 | 0.2 | 0.51 | Flat | 3 X 1.8 | 11 |
| A104 | 7 | 0.200 | 0.22 | 0.59 | Flat | 3.2 X 1.9 | 12 |
| A105 | 7 | 0.274 | 0.42 | 0.81 | Flat | 3.6 X 2.1 | 15.5 |
| A106 | 14 | 0.200 | 0.45 | 0.84 | Flat | 3.7 X 2.1 | 17 |
| A107 | 1 | 0.810 | 0.5 | 0.81 | Flat | 3.6 X 2.1 | 19 |
| A108 | 7 | 0.300 | 0.5 | 0.89 | Flat | 3.8 X 2.2 | 20 |
| A109 | 24 | 0.200 | 0.75 | 1.1 | Flat | 4.2 X 2.4 | 27 |
| A110 | 14 | 0.300 | 1 | 1.26 | Flat | 4.5 X 2.6 | 31 |
| A111 | 3 | 0711 | 1.2 | 1.39 | Flat | 4.9 X 2.8 | 38 |
| A112 | 40 | 0.200 | 1.25 | 1.42 | Flat | 4.9 X 2.8 | 39 |
| A113 | 1 | 1.290 | 1.3 | 1.29 | Flat | 4.7 X 2.7 | 41 |
| A114 | 19 | 0.300 | 1.3 | 1.52 | Flat | 5.0 X 2.9 | 42 |
| A115 | 21 | 0.300 | 1.5 | 1.55 | Flat | 5.3 X 2.9 | 44 |
| A116 | 35 | 0.300 | 2.5 | 2 | Flat | 6.1 X 3.4 | 71 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (AXXX) | (X) | (X) | (XX) | (X) | (X) |
| 101 to 116 | K T J E N R S D B | T | 01 | A-(ANSI) I-(IEC) J-(JIS) | F-(Flat) |

Table 1

# C-101

## THERMOCOUPLE WIRE

### CERAMIC FIBER - CERAMIC FIBER INSULATED - 800°C

ASTM E230/77, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Ceramic Fiber Insulation |
| Construction | : | Flat |
| Outer Jacket | : | Ceramic Fiber Insulation |
| Operating Temp. | : | 800°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584. |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 800°C
- ✓ High Temperature Range
- ✓ Higher Accuracy Same as Thermocouple
- ✓ Can Be Use as Thermocouple.

### AVAILABLE OPTIONS

- ✓ Metal Coverings
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX.) (gm/meter) |
|---|---|---|---|---|---|---|---|
| C101 | 7 | 0.152 | 0.12 | 0.46 | Flat | 2.9 X 1.7 | 9 |
| C102 | 7 | 0.160 | 0.14 | 0.48 | Flat | 3 X 1.8 | 10 |
| C103 | 1 | 0.510 | 0.2 | 0.51 | Flat | 3.1 X 1.9 | 12 |
| C104 | 7 | 0.200 | 0.22 | 0.59 | Flat | 3.3 X 2 | 13 |
| C105 | 7 | 0.274 | 0.42 | 0.81 | Flat | 3.7 X 2.2 | 16.5 |
| C106 | 14 | 0.200 | 0.45 | 0.84 | Flat | 3.8 X 2.2 | 18 |
| C107 | 1 | 0.810 | 0.5 | 0.81 | Flat | 3.7 X 2.2 | 20 |
| C108 | 7 | 0.300 | 0.5 | 0.89 | Flat | 3.9 X 2.3 | 21 |
| C109 | 24 | 0.200 | 0.75 | 1.1 | Flat | 4.3 X 2.5 | 28 |
| C110 | 14 | 0.300 | 1 | 1.26 | Flat | 4.6 X 2.7 | 33 |
| C111 | 3 | 0711 | 1.2 | 1.39 | Flat | 5 X 2.9 | 40 |
| C112 | 40 | 0.200 | 1.25 | 1.42 | Flat | 5 X 2.9 | 40.5 |
| C113 | 1 | 1.290 | 1.3 | 1.29 | Flat | 4.8 X 2.8 | 43 |
| C114 | 19 | 0.300 | 1.3 | 1.52 | Flat | 5.1 X 3 | 44 |
| C115 | 21 | 0.300 | 1.5 | 1.55 | Flat | 5.4 X 3 | 47 |
| C116 | 35 | 0.300 | 2.5 | 2 | Flat | 6.2 X 3.5 | 74 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (CXXX) | (X) | (X) | (XX) | (X) | (X) |
| 101 to 116 | K<br>T<br>J<br>E<br>N<br>R<br>S<br>D<br>B | T | 01 | A-(ANSI)<br>I-(IEC)<br>J-(JIS) | F-(Flat) |

Table 1

# F-101

## THERMOCOUPLE CABLE

**FIBER GLASS - FIBER GLASS INSULATED - 550°C**

IS 8784, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Braided or Lapped Fiber with Silicon Varnish, High Temp. Saturated |
| Construction | : | Twisted / Flat |
| Outer Sheath | : | Braided or Lapped Fiber with Silicon Varnish, High Temp. Saturated |
| Operating Temp. | : | 550°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 550°C
- ✓ Excellent Physical Properties
- ✓ Excellent Di-Electric Constant
- ✓ High Temperature Stability
- ✓ High Thermal Endurance
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Double Fiber Braid Insulation
- ✓ Metal Coverings
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| F101 | 1 | 0.51 | 0.2 | 0.51 | T / F | 2.2 | 11 |
| F102 | 7 | 0.2 | 0.22 | 0.59 | T / F | 2.4 | 12 |
| F103 | 7 | 0.3 | 0.5 | 0.89 | T / F | 3 | 22 |
| F104 | 1 | 0.81 | 0.5 | 0.81 | T / F | 2.9 | 20 |
| F105 | 3 | 0.711 | 1.2 | 1.39 | T / F | 4.6 | 40 |
| F106 | 1 | 1.290 | 1.3 | 1.29 | T / F | 4.4 | 42 |
| F107 | 7 | 0.152 | 0.12 | 0.46 | T / F | 2 | 6.36 |
| F108 | 7 | 0.16 | 0.14 | 0.48 | T / F | 2.1 | 7.95 |
| F109 | 7 | 0.274 | 0.42 | 0.81 | T / F | 3.22 | 15.8 |
| F110 | 14 | 0.2 | 0.45 | 0.84 | T / F | 3.3 | 17.7 |
| F111 | 24 | 0.2 | 0.75 | 1.1 | T / F | 4 | 24.5 |
| F112 | 14 | 0.3 | 1 | 1.26 | T / F | 4.4 | 33 |
| F113 | 40 | 0.2 | 1.5 | 1.42 | T / F | 4.74 | 42.5 |
| F114 | 19 | 0.3 | 1.3 | 1.52 | T / F | 4.94 | 44 |
| F115 | 21 | 0.3 | 1.5 | 1.55 | T / F | 5.05 | 42 |
| F116 | 1 | 1.29 | 1.3 | 1.29 | T / F | 4.5 | 44 |
| F117 | 1 | 0.2 | 0.0314 | 0.2 | T / F | 1.2 | 4.7 |
| F118 | 1 | 0.3 | 0.07 | 0.3 | T / F | 1.6 | 6.8 |

### ORDERING CODE

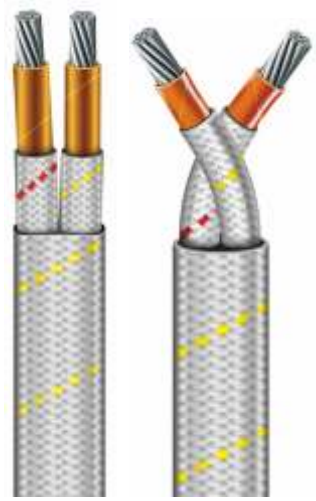
| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (FXXX) | (X) | (X) | (XX) | (X) | (X) |
| 101 to 118 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) F-(Flat) |

Table 1

# F-201

## THERMOCOUPLE CABLE

**POLYMIDE - FIBER GLASS - FIBER GLASS INSULATED - 550°C**



JSS 51037, IS 8784, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Polymide-Fiber glass Insulated, High Temp. Saturated |
| Construction | : | Twisted / Flat |
| Outer jacket | : | Fiber Glass with Silicon Varnish |
| Operating Temp. | : | 550°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 550°C
- ✓ Excellent Electrical & Mechanical Properties
- ✓ Outstanding Insulating Properties
- ✓ Good Thermal Stability
- ✓ High Tensile Strength

### AVAILABLE OPTIONS

- ✓ Metal Over Braid
- ✓ Twisted / Shielded Pair
- ✓ Special Colour Code
- ✓ Calibration Test Report

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| F201 | 1 | 0.51 | 0.2 | 0.51 | T / F | 3.2 | 12 |
| F202 | 7 | 0.2 | 0.22 | 0.59 | T / F | 3.4 | 13 |
| F203 | 7 | 0.3 | 0.5 | 0.89 | T / F | 4 | 22 |
| F204 | 1 | 0.81 | 0.5 | 0.81 | T / F | 3.8 | 22 |
| F205 | 24 | 0.2 | 0.75 | 1.1 | T / F | 4.6 | 30 |
| F206 | 1 | 1.020 | 0.81 | 1.02 | T / F | 4.4 | 30 |
| F207 | 14 | 0.3 | 1 | 1.26 | T / F | 5 | 37 |
| F208 | 40 | 0.2 | 1.25 | 1.42 | T / F | 5.6 | 45 |
| F209 | 21 | 0.3 | 1.5 | 1.55 | T / F | 6 | 58 |
| F210 | 7 | 0.152 | 0.12 | 0.46 | T / F | 2.25 | 7.8 |
| F211 | 7 | 0.16 | 0.14 | 0.48 | T / F | 2.3 | 9.1 |
| F212 | 7 | 0.274 | 0.42 | 0.81 | T / F | 3.45 | 19.56 |
| F213 | 14 | 0.2 | 0.45 | 0.84 | T / F | 3.5 | 21 |
| F214 | 3 | 0.711 | 1.2 | 1.39 | T / F | 4.88 | 44.8 |
| F215 | 1 | 1.29 | 1.3 | 1.29 | T / F | 4.68 | 49.4 |
| F216 | 19 | 0.3 | 1.3 | 1.52 | T / F | 5.2 | 49.4 |
| F217 | 35 | 0.3 | 2.5 | 2 | T / F | 6.1 | 79 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (FXXX) | (X) | (X) | (XX) | (X) | (X) |
| 201 to 217 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) F-(Flat) |

Table 1

TEMPSENS INSTRUMENTS

# F-301

## THERMOCOUPLE CABLE

**FIBER GLASS - FIBER GLASS - SS BRAIDING INSULATED - 600°C**

IS 8784, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Braided or Lapped Fiber with Silicon Varnish, High Temp. Saturated |
| Construction | : | Twisted / Flat |
| Outer Sheath | : | Braided or Lapped Fiber with Silicon Varnish, High Temp. Saturated |
| Overall Braiding | : | Stainless Steel Wire Braided |
| Operating Temp. | : | 600°C |
| Limit of Error | : | According to ASTM E230/77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 600°C
- ✓ Excellent Physical Properties
- ✓ Excellent Di-Electric Constant
- ✓ High Temperature Stability
- ✓ High Thermal Endurance
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Double Fiber Braid Insulation
- ✓ Metal Coverings
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| F301 | 1 | 0.51 | 0.2 | 0.51 | T / F | 2.7 | 15.6 |
| F302 | 7 | 0.2 | 0.22 | 0.59 | T / F | 2.9 | 16 |
| F303 | 7 | 0.3 | 0.5 | 0.89 | T / F | 3.5 | 28.1 |
| F304 | 1 | 0.81 | 0.5 | 0.81 | T / F | 2.4 | 28 |
| F305 | 24 | 0.2 | 0.75 | 1.1 | T / F | 4.4 | 35 |
| F306 | 14 | 0.300 | 1 | 1.26 | T / F | 4.9 | 48 |
| F307 | 3 | 0.711 | 1.2 | 1.39 | T / F | 5.6 | 52.6 |
| F308 | 1 | 1.29 | 1.3 | 1.29 | T / F | 5 | 57 |
| F309 | 21 | 0.3 | 1.5 | 1.55 | T / F | 5.5 | 64 |
| F310 | 7 | 0.152 | 0.12 | 0.46 | T / F | 2.4 | 10.6 |
| F311 | 7 | 0.16 | 0.14 | 0.48 | T / F | 2.5 | 13.32 |
| F312 | 7 | 0.274 | 0.42 | 0.81 | T / F | 3.72 | 28.56 |
| F313 | 14 | 0.2 | 0.45 | 0.84 | T / F | 3.8 | 29.1 |
| F314 | 19 | 0.3 | 1.3 | 1.52 | T / F | 5.55 | 61.4 |
| F315 | 19 | 0.2 | 0.6 | 0.98 | T / F | 4.2 | 37.8 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (FXXX) | (X) | (X) | (XX) | (X) | (X) |
| 301 to 315 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) F-(Flat) |

Table 1

# F-401

## THERMOCOUPLE CABLE

**POLYMIDE - FIBER GLASS - FIBER GLASS - SS BRAIDING INSULATED - 600°C**

JSS 51037, IS 8784, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Polymide Tapping with Braided or Lapped Fiber with High Temp. Varnish High Temp. Saturated |
| Construction | : | Twisted / Flat |
| Outer Sheath | : | Braided or Lapped Fiber with High Temp. Varnish High Temp. Saturated |
| Overall Braiding | : | Stainless Steel Wire |
| Operating Temp. | : | 600°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 600°C
- ✓ Excellent Physical Properties
- ✓ Excellent Di-Electric Constant
- ✓ High Temperature Stability
- ✓ High Thermal Endurance
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Double Fiber Braid Insulation
- ✓ Metal Coverings
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| F401 | 1 | 0.510 | 0.2 | 0.51 | T / F | 3.3 | 18.2 |
| F402 | 7 | 0.200 | 0.22 | 0.59 | T / F | 3.5 | 18.8 |
| F403 | 7 | 0.300 | 0.5 | 0.89 | T / F | 4.5 | 31.5 |
| F404 | 1 | 0.810 | 0.5 | 0.81 | T / F | 4.3 | 31.5 |
| F405 | 24 | 0.200 | 0.75 | 1.1 | T / F | 4.9 | 42 |
| F406 | 1 | 1.020 | 0.81 | 1.02 | T / F | 4.8 | 46.2 |
| F407 | 14 | 0.300 | 1 | 1.26 | T / F | 5.3 | 52.5 |
| F408 | 40 | 0.200 | 1.25 | 1.42 | T / F | 5.8 | 59.5 |
| F409 | 21 | 0.300 | 1.5 | 1.55 | T / F | 6 | 69 |
| F410 | 7 | 0.152 | 0.12 | 0.46 | T / F | 2.9 | 12.6 |
| F411 | 7 | 0.160 | 0.14 | 0.48 | T / F | 3 | 13.3 |
| F412 | 7 | 0.274 | 0.42 | 0.81 | T / F | 4.3 | 28.9 |
| F413 | 14 | 0.200 | 0.45 | 0.84 | T / F | 4.4 | 29.56 |
| F414 | 3 | 0.711 | 1.2 | 1.39 | T / F | 5.7 | 57.9 |
| F415 | 1 | 1.290 | 1.3 | 1.29 | T / F | 5.5 | 63.5 |
| F416 | 19 | 0.300 | 1.3 | 1.52 | T / F | 5.9 | 63.5 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (FXXX) | (X) | (X) | (XX) | (X) | (X) |
| 401 to 416 | K<br>T<br>J<br>E<br>N<br>R<br>S<br>D<br>B | T<br>X<br>C | 01<br>02<br>-<br>-<br>-<br>-<br>-<br>24 | A-(ANSI)<br>I-(IEC)<br>J-(JIS) | T-(Twisted)<br>F-(Flat) |

Table 1

TEMPSENS INSTRUMENTS

# F-601

## THERMOCOUPLE CABLE

**POLYMIDE - FIBER GLASS - FIBER GLASS - ASBESTOS BRAIDING INSULATED - 600°C**

A

JSS 51037, IS 8784, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Polymide Tapping with Braided or Lapped Fiber with High Temp. Varnish High Temp. Saturated |
| Construction | : | Twisted / Flat |
| Outer Sheath | : | Braided or Lapped Fiber with High Temp. Varnish High Temp. Saturated |
| Overall Braiding | : | Asbestos Yarn |
| Operating Temp. | : | 600°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 600°C
- ✓ Excellent Physical Properties
- ✓ Excellent Di-Electric Constant
- ✓ High Temperature Stability
- ✓ High Thermal Endurance
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Double Fiber Braid Insulation
- ✓ Metal Coverings
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| F601 | 1 | 0.510 | 0.2 | 0.51 | T / F | 4.8 | 20 |
| F602 | 7 | 0.200 | 0.22 | 0.59 | T / F | 5 | 21.2 |
| F603 | 7 | 0.300 | 0.5 | 0.89 | T / F | 5.6 | 33 |
| F604 | 1 | 0.810 | 0.5 | 0.81 | T / F | 5.4 | 33 |
| F605 | 24 | 0.200 | 0.75 | 1.1 | T / F | 6.2 | 43 |
| F606 | 1 | 1.020 | 0.81 | 1.02 | T / F | 6 | 46 |
| F607 | 14 | 0.300 | 1 | 1.26 | T / F | 6.6 | 53 |
| F608 | 40 | 0.200 | 1.25 | 1.42 | T / F | 7.2 | 62 |
| F609 | 21 | 0.300 | 1.5 | 1.55 | T / F | 7.8 | 74 |
| F610 | 7 | 0.152 | 0.12 | 0.46 | T / F | 3.5 | 14.5 |
| F611 | 7 | 0.160 | 0.14 | 0.48 | T / F | 3.6 | 16.9 |
| F612 | 7 | 0.274 | 0.42 | 0.81 | T / F | 5.4 | 32.5 |
| F613 | 14 | 0.200 | 0.45 | 0.84 | T / F | 5.5 | 34.3 |
| F614 | 3 | 0.711 | 1.2 | 1.39 | T / F | 6.9 | 65 |
| F615 | 1 | 1.290 | 1.3 | 1.29 | T / F | 6.8 | 68.5 |
| F616 | 19 | 0.300 | 1.3 | 1.52 | T / F | 7.7 | 68.5 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (FXXX) | (X) | (X) | (XX) | (X) | (X) |
| 601 to 616 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) F-(Flat) |

Table 1

# F-801

## THERMOCOUPLE CABLE

**POLYMIDE - FIBER GLASS - AL - MYLAR SCREEN - FIBER GLASS-SS BRAIDING INSULATED - 600°C**

JSS 51037, IS 8784, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Polymide Tapping with Braided or Lapped Fiber with High Temp. Varnish High Temp. Saturated |
| Construction | : | Twisted |
| Screening | : | Al-Mylar Tape Screen with Drain wire |
| Outer Sheath | : | Braided or Lapped Fiber with High Temp. Varnish High Temp. Saturated |
| Overall Braiding | : | Stainless Steel Wire |
| Operating Temp. | : | 600°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 600°C
- ✓ Excellent Physical Properties
- ✓ Excellent Di-Electric Constant
- ✓ High Temperature Stability
- ✓ High Thermal Endurance
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Double Fiber Braid Insulation
- ✓ Metal Coverings
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| F801 | 1 | 0.510 | 0.2 | 0.51 | Twisted | 3.9 | 27.6 |
| F802 | 7 | 0.200 | 0.22 | 0.59 | Twisted | 4 | 28.3 |
| F803 | 7 | 0.300 | 0.5 | 0.89 | Twisted | 4.8 | 41.5 |
| F804 | 1 | 0.810 | 0.5 | 0.81 | Twisted | 4.7 | 41.5 |
| F805 | 24 | 0.200 | 0.75 | 1.1 | Twisted | 5.4 | 51.5 |
| F806 | 1 | 1.020 | 0.81 | 1.02 | Twisted | 5.4 | 58.2 |
| F807 | 14 | 0.300 | 1 | 1.26 | Twisted | 6 | 64.3 |
| F808 | 40 | 0.200 | 1.25 | 1.42 | Twisted | 6.3 | 73.5 |
| F809 | 21 | 0.300 | 1.5 | 1.55 | Twisted | 6.6 | 81 |
| F810 | 7 | 0.152 | 0.12 | 0.46 | Twisted | 3.6 | 23.5 |
| F811 | 7 | 0.160 | 0.14 | 0.48 | Twisted | 3.7 | 24.9 |
| F812 | 7 | 0.274 | 0.42 | 0.81 | Twisted | 4.7 | 37.6 |
| F813 | 14 | 0.200 | 0.45 | 0.84 | Twisted | 4.8 | 38.9 |
| F814 | 3 | 0.711 | 1.2 | 1.39 | Twisted | 6.2 | 71.6 |
| F815 | 1 | 1.290 | 1.3 | 1.29 | Twisted | 6.1 | 76.5 |
| F816 | 19 | 0.300 | 1.3 | 1.52 | Twisted | 6.5 | 76.5 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (FXXX) | (X) | (X) | (XX) | (X) | (X) |
| 801 to 816 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) |

Table 1

# K-101

## THERMOCOUPLE CABLE

### KAPTON - POLYMIDE INSULATED - 316°C

JSS 51037, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Polymide Taped Insulation |
| Construction | : | Twisted / Flat |
| Outer Jacket | : | Polymide Tape Sheathed |
| Operating Temp. | : | 316°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 316°C
- ✓ High Temperature with Standing
- ✓ Good Mechanical Strength
- ✓ Good Moisture, Chemical Abrasion Resistance
- ✓ Excellent Durability
- ✓ Heat Resistant

### AVAILABLE OPTIONS

- ✓ Metal Coverings
- ✓ Metal & Taped Shielding
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| K101 | 7 | 0.152 | 0.12 | 0.46 | T / F | 1.8 | 6 |
| K102 | 7 | 0.160 | 0.14 | 0.48 | T / F | 1.9 | 7.5 |
| K103 | 1 | 0.510 | 0.2 | 0.51 | T / F | 2 | 8.6 |
| K104 | 7 | 0.200 | 0.22 | 0.59 | T / F | 2.1 | 9.8 |
| K105 | 7 | 0.274 | 0.42 | 0.81 | T / F | 2.6 | 12.5 |
| K106 | 14 | 0.200 | 0.45 | 0.84 | T / F | 2.7 | 15 |
| K107 | 1 | 0.810 | 0.5 | 0.81 | T / F | 2.6 | 13 |
| K108 | 7 | 0.300 | 0.5 | 0.89 | T / F | 3 | 13.5 |
| K109 | 24 | 0.200 | 0.75 | 1.1 | T / F | 3.4 | 20 |
| K110 | 14 | 0.300 | 1 | 1.26 | T / F | 3.8 | 29 |
| K111 | 3 | 0.711 | 1.2 | 1.39 | T / F | 4.3 | 37 |
| K112 | 40 | 0.200 | 1.25 | 1.42 | T / F | 4.4 | 35 |
| K113 | 1 | 1.290 | 1.3 | 1.29 | T / F | 4.2 | 38 |
| K114 | 19 | 0.300 | 1.3 | 1.52 | T / F | 4.6 | 38 |
| K115 | 21 | 0.300 | 1.5 | 1.55 | T / F | 4.7 | 42 |
| K116 | 35 | 0.300 | 2.5 | 2 | T / F | 5.8 | 67 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (KXXX) | (X) | (X) | (XX) | (X) | (X) |
| 101 to 116 | K<br>T<br>J<br>E<br>N<br>R<br>S<br>D<br>B | T<br>X<br>C | 01<br>02<br>-<br>-<br>-<br>-<br>-<br>24 | A-(ANSI)<br>I-(IEC)<br>J-(JIS) | T-(Twisted)<br>F-(Flat) |

Table 1

TEMPSENS INSTRUMENTS

A

# K-201

## THERMOCOUPLE CABLE

**POLYMIDE - PTFE - POLYMIDE INSULATED - 316°C**

JSS 51034, JSS 51037, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Polymide Tape Insulation |
| Construction | : | Twisted / Flat |
| Inner Jacket | : | PTFE Insulation |
| Outer Jacket | : | Polymide Tape |
| Operating Temp. | : | 316°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584. |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 316°C
- ✓ High Temperature with Standing
- ✓ Good Mechanical Strength
- ✓ Good Moisture, Chemical Abrasion Resistance
- ✓ Abrasion Resistance
- ✓ Excellent Durability
- ✓ Heat Resistant
- ✓ Fire Resistant

### AVAILABLE OPTIONS

- ✓ Metal Covering
- ✓ Taped or Metal Shielding.
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| K201 | 7 | 0.152 | 0.12 | 0.46 | T/F | 2.60 | 6 |
| K202 | 7 | 0.160 | 0.14 | 0.48 | T/F | 2.75 | 7.5 |
| K203 | 1 | 0.510 | 0.2 | 0.51 | T/F | 2.90 | 8.6 |
| K204 | 7 | 0.200 | 0.22 | 0.59 | T/F | 3.00 | 9.8 |
| K205 | 7 | 0.274 | 0.42 | 0.81 | T/F | 3.50 | 12.5 |
| K206 | 14 | 0.200 | 0.45 | 0.84 | T/F | 3.60 | 15 |
| K207 | 1 | 0.810 | 0.5 | 0.81 | T/F | 3.50 | 13 |
| K208 | 7 | 0.300 | 0.5 | 0.89 | T/F | 3.60 | 13.5 |
| K209 | 24 | 0.200 | 0.75 | 1.1 | T/F | 4.10 | 20 |
| K210 | 14 | 0.300 | 1 | 1.26 | T/F | 4.50 | 29 |
| K211 | 3 | 0.711 | 1.2 | 1.39 | T/F | 4.60 | 37 |
| K212 | 40 | 0.200 | 1.25 | 1.42 | T/F | 4.40 | 35 |
| K213 | 1 | 1.290 | 1.3 | 1.29 | T/F | 4.20 | 38 |
| K214 | 19 | 0.300 | 1.3 | 1.52 | T/F | 4.60 | 38 |
| K215 | 21 | 0.300 | 1.5 | 1.55 | T/F | 4.70 | 42 |
| K216 | 35 | 0.300 | 2.5 | 2 | T/F | 5.80 | 67 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (KXXX) | (X) | (X) | (XX) | (X) | (X) |
| 201 to 216 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) F-(Flat) |

Table 1

# K-301

## THERMOCOUPLE CABLE

**POLYMIDE INSULATED TWISTED CABLE - 316°C**

JSS 51037, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Polymide Taped Insulation |
| Construction | : | Twisted |
| Operating Temp. | : | 316°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 316°C
- ✓ High Temperature with Standing
- ✓ Good Mechanical Strength
- ✓ Good Moisture, Chemical Abrasion Resistance
- ✓ Smaller Diameter
- ✓ Excellent Durability
- ✓ Heat Resistant

### AVAILABLE OPTIONS

- ✓ Metal Coverings
- ✓ Metal & Taped Shielding
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| K301 | 7 | 0.152 | 0.12 | 0.46 | Twisted | 1.52 | 4 |
| K302 | 7 | 0.160 | 0.14 | 0.48 | Twisted | 1.6 | 4.5 |
| K303 | 1 | 0.510 | 0.2 | 0.51 | Twisted | 1.7 | 5.8 |
| K304 | 7 | 0.200 | 0.22 | 0.59 | Twisted | 1.8 | 6.3 |
| K305 | 7 | 0.274 | 0.42 | 0.81 | Twisted | 2.4 | 10.3 |
| K306 | 14 | 0.200 | 0.45 | 0.84 | Twisted | 2.5 | 11.1 |
| K307 | 1 | 0.810 | 0.5 | 0.81 | Twisted | 2.4 | 12 |
| K308 | 7 | 0.300 | 0.5 | 0.89 | Twisted | 2.6 | 12.5 |
| K309 | 24 | 0.200 | 0.75 | 1.1 | Twisted | 3 | 18.5 |
| K310 | 14 | 0.300 | 1 | 1.26 | Twisted | 3.5 | 22 |
| K311 | 3 | 0.711 | 1.2 | 1.39 | Twisted | 3.9 | 28 |
| K312 | 40 | 0.200 | 1.25 | 1.42 | Twisted | 3.8 | 28.5 |
| K313 | 1 | 1.290 | 1.3 | 1.29 | Twisted | 3.6 | 28.5 |
| K314 | 19 | 0.300 | 1.3 | 1.52 | Twisted | 4 | 29 |
| K315 | 21 | 0.300 | 1.5 | 1.55 | Twisted | 4.3 | 33 |
| K316 | 35 | 0.300 | 2.5 | 2 | Twisted | 5.1 | 53 |

### ORDERING CODE

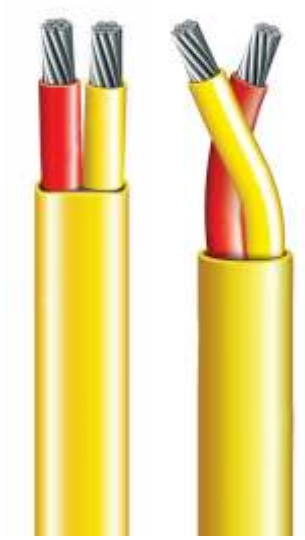
| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (KXXX) | (X) | (X) | (XX) | (X) | (X) |
| 301 to 316 | K T J E N R S D B | T X C | 01 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) |

Table 1

# P-201

## THERMOCOUPLE CABLE

**PVC - PVC INSULATED - 85°C**



IS 694, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | PVC / FR PVC / FRLS PVC / HR PVC Insulation. |
| Construction | : | Twisted / Flat |
| Outer Jacket | : | PVC / FR PVC / FRLS PVC / HR PVC Sheathed. |
| Operating Temp. | : | 85°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584. |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 85°C
- ✓ Excellent Physical Properties
- ✓ Excellent Di-Electric constant
- ✓ Excellent Flame Retardant Property
- ✓ Good Heat Resistivity
- ✓ High Thermal Endurance
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Metal Coverings
- ✓ Metal & Taped Shielding
- ✓ Armouring
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| P201 | 7 | 0.160 | 0.14 | 0.48 | T/F | 3.7 | 22.52 |
| P202 | 1 | 0.510 | 0.2 | 0.51 | T/F | 3.8 | 25.6 |
| P203 | 7 | 0.200 | 0.22 | 0.59 | T/F | 5.2 | 26.8 |
| P204 | 7 | 0.274 | 0.42 | 0.81 | T/F | 5.6 | 34.56 |
| P205 | 14 | 0.200 | 0.45 | 0.84 | T/F | 5.7 | 37.6 |
| P206 | 1 | 0.810 | 0.5 | 0.81 | T/F | 5.6 | 41 |
| P207 | 7 | 0.300 | 0.5 | 0.89 | T/F | 5.8 | 41 |
| P208 | 24 | 0.200 | 0.75 | 1.1 | T/F | 6.2 | 49.5 |
| P209 | 14 | 0.300 | 1 | 1.26 | T/F | 6.9 | 58 |
| P210 | 3 | 0.711 | 1.2 | 1.39 | T/F | 7.3 | 63.5 |
| P211 | 40 | 0.200 | 1.25 | 1.42 | T/F | 7.6 | 66 |
| P212 | 1 | 1.290 | 1.3 | 1.29 | T/F | 7.4 | 69.5 |
| P213 | 19 | 0.300 | 1.3 | 1.52 | T/F | 7.8 | 69.5 |
| P214 | 21 | 0.300 | 1.5 | 1.55 | T/F | 7.9 | 76 |
| P215 | 35 | 0.300 | 2.5 | 2 | T/F | 10 | 110 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (PXXX) | (X) | (X) | (XX) | (X) | (X) |
| 201 to 215 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) F-(Flat) |

Table 1

# P-301

## THERMOCOUPLE CABLE

**PVC - ALMYLAR - PVC INSULATED - 85°C**

IS 1554, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | PVC / FR PVC / FRLS PVC / HR PVC Insulation |
| Construction | : | Twisted |
| Shielding | : | Almylar Shield with ATC Drain Wire |
| Outer Jacket | : | PVC / FR PVC / FRLS PVC / HR PVC Sheathed |
| Operating Temp. | : | 85°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 85°C
- ✓ Excellent Physical Properties
- ✓ Excellent Di-Electric Constant
- ✓ Excellent Flame Retardant Property
- ✓ Good Heat Resistivity
- ✓ High Thermal Endurance
- ✓ Good Moisture, Chemical

### AVAILABLE OPTIONS

- ✓ Armouring
- ✓ Available with Zero Halogen Property
- ✓ Available with Fire Retardant Property
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| P301 | 7 | 0.160 | 0.14 | 0.48 | Twisted | 4.1 | 30 |
| P302 | 1 | 0.510 | 0.2 | 0.51 | Twisted | 4.2 | 32.1 |
| P303 | 7 | 0.200 | 0.22 | 0.59 | Twisted | 5.6 | 37 |
| P304 | 7 | 0.274 | 0.42 | 0.81 | Twisted | 6 | 47 |
| P305 | 14 | 0.200 | 0.45 | 0.84 | Twisted | 6.1 | 48.6 |
| P306 | 1 | 0.810 | 0.5 | 0.81 | Twisted | 6 | 54 |
| P307 | 7 | 0.300 | 0.5 | 0.89 | Twisted | 6.2 | 54 |
| P308 | 24 | 0.200 | 0.75 | 1.1 | Twisted | 6.6 | 64 |
| P309 | 14 | 0.300 | 1 | 1.26 | Twisted | 7.4 | 72 |
| P310 | 3 | 0.711 | 1.2 | 1.39 | Twisted | 7.7 | 77.8 |
| P311 | 40 | 0.200 | 1.25 | 1.42 | Twisted | 8 | 82.2 |
| P312 | 1 | 1.290 | 1.3 | 1.29 | Twisted | 8 | 86.5 |
| P313 | 19 | 0.300 | 1.3 | 1.52 | Twisted | 8.2 | 86.5 |
| P314 | 21 | 0.300 | 1.5 | 1.55 | Twisted | 8.3 | 92 |
| P315 | 35 | 0.300 | 2.5 | 2 | Twisted | 10.6 | 138 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (PXXX) | (X) | (X) | (XX) | (X) | (X) |
| 301 to 315 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) |

Table 1

# P-401

## THERMOCOUPLE CABLE

**PVC - ALMYLAR - PVC - G.I. ARMOURING - PVC INSULATED - 85°C**

IS 1554, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | PVC / FR PVC / FRLS PVC / HR PVC Insulation |
| Construction | : | Twisted |
| Shielding | : | Almylar Shield with ATC Drain Wire |
| Inner Sheath | : | PVC / FR PVC / FRLS PVC / HR PVC Sheathed |
| Armouring | : | Galvanized Iron Wire, Round / Flat Strip |
| Outer Jacket | : | PVC / FR PVC / FRLS PVC / HR PVC Sheathed |
| Operating Temp. | : | 85°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 85°C
- ✓ Excellent Physical Properties
- ✓ Excellent Di-Electric Constant
- ✓ Excellent Flame Retardant Property
- ✓ Good Heat Resistivity
- ✓ High Thermal Endurance
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Metal Coverings
- ✓ Available with Zero Halogen Property
- ✓ Available with Fire Retardant Property
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| P401 | 7 | 0.160 | 0.14 | 0.48 | Twisted | 8.46 | 200 |
| P402 | 1 | 0.510 | 0.2 | 0.51 | Twisted | 9.0 | 215 |
| P403 | 7 | 0.200 | 0.22 | 0.59 | Twisted | 9.2 | 230 |
| P404 | 7 | 0.274 | 0.42 | 0.81 | Twisted | 9.6 | 240 |
| P405 | 14 | 0.200 | 0.45 | 0.84 | Twisted | 9.8 | 250 |
| P406 | 1 | 0.810 | 0.5 | 0.81 | Twisted | 10.0 | 262 |
| P407 | 7 | 0.300 | 0.5 | 0.89 | Twisted | 10.0 | 262 |
| P408 | 24 | 0.200 | 0.75 | 1.1 | Twisted | 10.5 | 278 |
| P409 | 14 | 0.300 | 1 | 1.26 | Twisted | 11.0 | 310 |
| P410 | 3 | 0.711 | 1.2 | 1.39 | Twisted | 11.5 | 318 |
| P411 | 40 | 0.200 | 1.25 | 1.42 | Twisted | 11.7 | 332 |
| P412 | 1 | 1.290 | 1.3 | 1.29 | Twisted | 11.8 | 335 |
| P413 | 19 | 0.300 | 1.3 | 1.52 | Twisted | 11.8 | 335 |
| P414 | 21 | 0.300 | 1.5 | 1.55 | Twisted | 12.0 | 348 |
| P415 | 35 | 0.300 | 2.5 | 2 | Twisted | 12.5 | 428 |

### ORDERING CODE

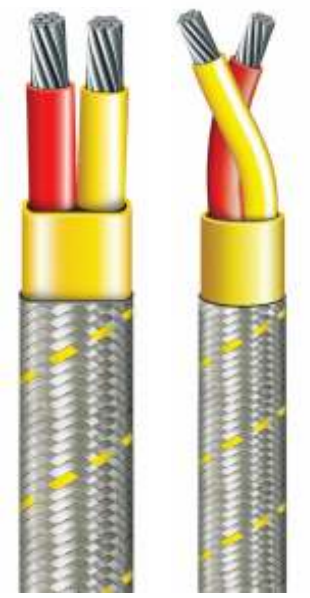
| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (PXXX) | (X) | (X) | (XX) | (X) | (X) |
| 401 to 415 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) |

Table 1

# P-501

## THERMOCOUPLE CABLE

**PVC - PVC - SS BRAIDING INSULATED - 85°C**



IS 694, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | PVC / FR PVC / FRLS PVC / HR PVC Insulation |
| Construction | : | Twisted / Flat |
| Outer Sheath | : | PVC / FR PVC / FRLS PVC / HR PVC Sheathed |
| Overall Braiding | : | Stainless Steel Wire |
| Operating Temp. | : | 85°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 85°C
- ✓ Excellent Physical Properties
- ✓ Excellent Di-Electric Constant
- ✓ Excellent Flame Retardant Property
- ✓ Good Heat Resistivity
- ✓ High Thermal Endurance
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Metal & Taped Shielding
- ✓ G.I. Armouring
- ✓ Available with Zero Halogen Property
- ✓ Available with Fire Retardant Property
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| P501 | 7 | 0.160 | 0.14 | 0.48 | T/F | 4.3 | 32.52 |
| P502 | 1 | 0.510 | 0.2 | 0.51 | T/F | 4.4 | 37.6 |
| P503 | 7 | 0.200 | 0.22 | 0.59 | T/F | 5.3 | 40.8 |
| P504 | 7 | 0.274 | 0.42 | 0.81 | T/F | 6.2 | 50.56 |
| P505 | 14 | 0.200 | 0.45 | 0.84 | T/F | 6.3 | 54.6 |
| P506 | 1 | 0.810 | 0.5 | 0.81 | T/F | 6.2 | 60 |
| P507 | 7 | 0.300 | 0.5 | 0.89 | T/F | 6.4 | 60 |
| P508 | 24 | 0.200 | 0.75 | 1.1 | T/F | 7.5 | 69.6 |
| P509 | 14 | 0.300 | 1 | 1.26 | T/F | 8 | 82 |
| P510 | 3 | 0.711 | 1.2 | 1.39 | T/F | 7.9 | 87.5 |
| P511 | 40 | 0.200 | 1.25 | 1.42 | T/F | 8.2 | 91 |
| P512 | 1 | 1.290 | 1.3 | 1.29 | T/F | 8.1 | 97.5 |
| P513 | 19 | 0.300 | 1.3 | 1.52 | T/F | 8.5 | 97.5 |
| P514 | 21 | 0.300 | 1.5 | 1.55 | T/F | 8.6 | 106 |
| P515 | 35 | 0.300 | 2.5 | 2 | T/F | 10.7 | 145 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (PXXX) | (X) | (X) | (XX) | (X) | (X) |
| 501 to 515 | K<br>T<br>J<br>E<br>N<br>R<br>S<br>D<br>B | T<br>X<br>C | 01<br>02<br>-<br>-<br>-<br>-<br>-<br>24 | A-(ANSI)<br>I-(IEC)<br>J-(JIS) | T-(Twisted)<br>F-(Flat) |

Table 1

# PF-101

## THERMOCOUPLE CABLE

**PFA - PFA INSULATED - 260°C**

JSS 51034, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Extruded PFA Insulation |
| Construction | : | Twisted / Flat |
| Outer Jacket | : | Extruded PFA Insulated |
| Operating Temp. | : | 260°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584. |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 260°C
- ✓ High Temperature Range
- ✓ Excellent Fire Retardant Properties
- ✓ Good Mechanical Strength
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Metal Coverings
- ✓ Metal & Taped Shielding
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| PF101 | 7 | 0.152 | 0.12 | 0.46 | T / F | 2.02 | 6.58 |
| PF102 | 7 | 0.160 | 0.14 | 0.48 | T / F | 2.3 | 8.02 |
| PF103 | 1 | 0.510 | 0.2 | 0.51 | T / F | 2.55 | 11.2 |
| PF104 | 7 | 0.200 | 0.22 | 0.59 | T / F | 2.75 | 11.2 |
| PF105 | 7 | 0.274 | 0.42 | 0.81 | T / F | 3.22 | 16.78 |
| PF106 | 14 | 0.200 | 0.45 | 0.84 | T / F | 3.26 | 16.6 |
| PF107 | 1 | 0.810 | 0.5 | 0.81 | T / F | 3.3 | 22 |
| PF108 | 7 | 0.300 | 0.5 | 0.89 | T / F | 3.38 | 22 |
| PF109 | 24 | 0.200 | 0.75 | 1.1 | T / F | 3.8 | 28 |
| PF110 | 14 | 0.300 | 1 | 1.26 | T / F | 4.42 | 36 |
| PF111 | 3 | 0.711 | 1.2 | 1.39 | T / F | 4.68 | 40.4 |
| PF112 | 40 | 0.200 | 1.25 | 1.42 | T / F | 4.74 | 44.6 |
| PF113 | 1 | 1.290 | 1.3 | 1.29 | T / F | 4.45 | 47.4 |
| PF114 | 19 | 0.300 | 1.3 | 1.52 | T / F | 4.95 | 47.4 |
| PF115 | 21 | 0.300 | 1.5 | 1.55 | T / F | 5 | 53 |
| PF116 | 35 | 0.300 | 2.5 | 2 | T / F | 6.2 | 75 |

### ORDERING CODE

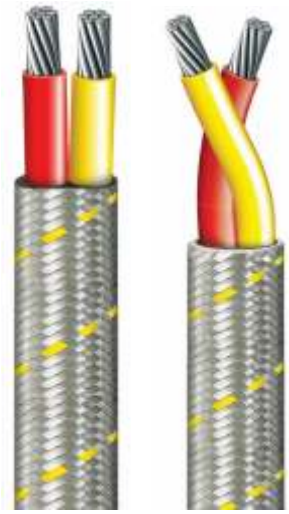
| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (PFXXX) | (X) | (X) | (XX) | (X) | (X) |
| 101 to 116 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) F-(Flat) |

Table 1

# PF-201

## THERMOCOUPLE CABLE

**PFA - SS BRAIDING INSULATED - 260°C**



JSS 51034, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Extruded PFA Insulated |
| Construction | : | Twisted / Flat |
| Outer Braiding | : | Stainless Steel Wire Braiding |
| Operating Temp. | : | 260°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 260°C
- ✓ High Temperature Range
- ✓ Excellent Fire Retardant Property
- ✓ Good Mechanical Strength
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Metal & Taped Shielding
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| PF201 | 7 | 0.152 | 0.12 | 0.46 | T / F | 2.4 | 8 |
| PF202 | 7 | 0.160 | 0.14 | 0.48 | T / F | 2.4 | 9 |
| PF203 | 1 | 0.510 | 0.2 | 0.51 | T / F | 2.6 | 11 |
| PF204 | 7 | 0.200 | 0.22 | 0.59 | T / F | 2.8 | 13.5 |
| PF205 | 7 | 0.274 | 0.42 | 0.81 | T / F | 3.2 | 19 |
| PF206 | 14 | 0.200 | 0.45 | 0.84 | T / F | 3.2 | 20 |
| PF207 | 1 | 0.810 | 0.5 | 0.81 | T / F | 3.4 | 22 |
| PF208 | 7 | 0.300 | 0.5 | 0.89 | T / F | 3.6 | 23 |
| PF209 | 24 | 0.200 | 0.75 | 1.1 | T / F | 4 | 30 |
| PF210 | 14 | 0.300 | 1 | 1.26 | T / F | 4.3 | 38 |
| PF211 | 3 | 0.711 | 1.2 | 1.39 | T / F | 4.8 | 46 |
| PF212 | 40 | 0.200 | 1.25 | 1.42 | T / F | 4.6 | 48 |
| PF213 | 1 | 1.290 | 1.3 | 1.29 | T / F | 4.4 | 50 |
| PF214 | 19 | 0.300 | 1.3 | 1.52 | T / F | 4.8 | 51 |
| PF215 | 21 | 0.300 | 1.5 | 1.55 | T / F | 5.1 | 55 |
| PF216 | 35 | 0.300 | 2.5 | 2 | T / F | 6.2 | 80 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (PFXXX) | (X) | (X) | (XX) | (X) | (X) |
| 201 to 216 | K<br>T<br>J<br>E<br>N<br>R<br>S<br>D<br>B | T<br>X<br>C | 01<br>02<br>-<br>-<br>-<br>-<br>-<br>24 | A-(ANSI)<br>I-(IEC)<br>J-(JIS) | T-(Twisted)<br>F-(Flat) |

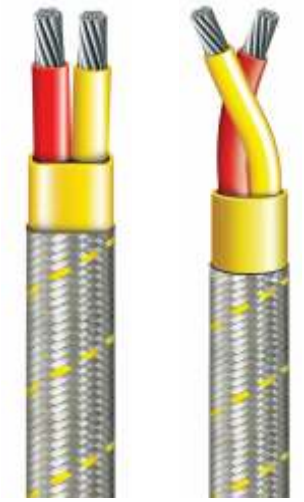
Table 1

TEMPSENS INSTRUMENTS

# PF-301

## THERMOCOUPLE CABLE

**PFA - PFA - SS BRAIDING INSULATED - 260°C**



JSS 51034, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Extruded PFA Insulation |
| Construction | : | Twisted / Flat |
| Outer Jacket | : | Extruded PFA Insulated |
| Outer Braiding | : | Stainless Steel Wire |
| Operating Temp. | : | 260°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 260°C
- ✓ High Temperature Range
- ✓ Excellent Fire Retardant Property
- ✓ Good Mechanical Strength
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Metal & Taped Shielding
- ✓ Overall Asbestos Braiding
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| PF301 | 7 | 0.152 | 0.12 | 0.46 | T / F | 2.8 | 12.1 |
| PF302 | 7 | 0.160 | 0.14 | 0.48 | T / F | 2.9 | 14 |
| PF303 | 1 | 0.510 | 0.2 | 0.51 | T / F | 3.2 | 15 |
| PF304 | 7 | 0.200 | 0.22 | 0.59 | T / F | 3.3 | 16 |
| PF305 | 7 | 0.274 | 0.42 | 0.81 | T / F | 3.8 | 24 |
| PF306 | 14 | 0.200 | 0.45 | 0.84 | T / F | 3.9 | 25 |
| PF307 | 1 | 0.810 | 0.5 | 0.81 | T / F | 3.8 | 25 |
| PF308 | 7 | 0.300 | 0.5 | 0.89 | T / F | 4.2 | 27 |
| PF309 | 24 | 0.200 | 0.75 | 1.1 | T / F | 4.6 | 37 |
| PF310 | 14 | 0.300 | 1 | 1.26 | T / F | 4.9 | 46 |
| PF311 | 3 | 0.711 | 1.2 | 1.39 | T / F | 5.5 | 52 |
| PF312 | 40 | 0.200 | 1.25 | 1.42 | T / F | 5.3 | 55 |
| PF313 | 1 | 1.290 | 1.3 | 1.29 | T / F | 5 | 63 |
| PF314 | 19 | 0.300 | 1.3 | 1.52 | T / F | 5.6 | 64 |
| PF315 | 21 | 0.300 | 1.5 | 1.55 | T / F | 5.7 | 71 |
| PF316 | 35 | 0.300 | 2.5 | 2 | T / F | 7 | 105 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (PFXXX) | (X) | (X) | (XX) | (X) | (X) |
| 301 to 316 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) F-(Flat) |

Table 1

# S-101

## THERMOCOUPLE CABLE

### SILICON - SILICON INSULATED - 200°C

IS 9968, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Silicon Insulation |
| Construction | : | Twisted |
| Outer Jacket | : | Silicon Insulated |
| Operating Temp. | : | 200°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 200°C
- ✓ Excellent Resistance to Ozone & Corona Effect
- ✓ Higher Flexibility
- ✓ Easier Solder Termination
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Metal Coverings
- ✓ Metal & Taped Shielding
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| S101 | 7 | 0.152 | 0.12 | 0.46 | Twisted | 3.72 | 18 |
| S102 | 7 | 0.16 | 0.14 | 0.48 | Twisted | 3.8 | 19 |
| S103 | 1 | 0.51 | 0.2 | 0.51 | Twisted | 4.62 | 32 |
| S104 | 7 | 0.2 | 0.22 | 0.59 | Twisted | 4.7 | 33 |
| S105 | 7 | 0.274 | 0.42 | 0.81 | Twisted | 5.22 | 37 |
| S106 | 14 | 0.2 | 0.45 | 0.84 | Twisted | 5.33 | 38 |
| S107 | 1 | 0.81 | 0.5 | 0.81 | Twisted | 5.22 | 37 |
| S108 | 7 | 0.300 | 0.5 | 0.89 | Twisted | 5.5 | 39 |
| S109 | 24 | 0.2 | 0.75 | 1.1 | Twisted | 6.3 | 55 |
| S110 | 14 | 0.3 | 1 | 1.26 | Twisted | 6.7 | 65 |
| S111 | 3 | 0.711 | 1.2 | 1.39 | Twisted | 7 | 75 |
| S112 | 40 | 0.2 | 1.25 | 1.42 | Twisted | 7.24 | 80 |
| S113 | 1 | 1.29 | 1.3 | 1.29 | Twisted | 7.5 | 87 |
| S114 | 19 | 0.3 | 1.3 | 1.52 | Twisted | 7.5 | 88 |
| S115 | 21 | 0.3 | 1.5 | 1.55 | Twisted | 7.55 | 82 |
| S116 | 35 | 0.3 | 2.5 | 2 | Twisted | 9 | 127 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (SXXX) | (X) | (X) | (XX) | (X) | (X) |
| 101 to 116 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) |

Table 1

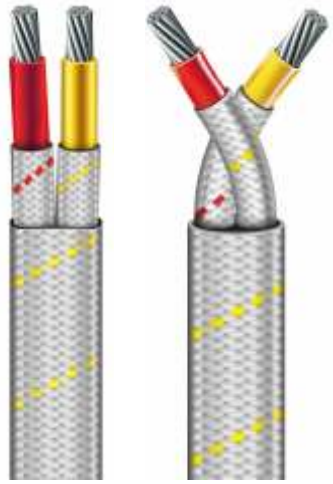
TEMPSENS INSTRUMENTS

A

# S-201

## THERMOCOUPLE CABLE

### SILICON - FIBER GLASS - FIBER GLASS INSULATED - 400°C



IS 9968, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Silicon / Fiber Glass Insulation with High Temp Varnish |
| Construction | : | Twisted / Flat |
| Outer Jacket | : | Fiber Glass Insulation with High Temp. Varnish |
| Operating Temp. | : | 400°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584. |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 400°C
- ✓ Excellent Resistance to Ozone & Corona Effect
- ✓ Excellent Heat Resistant
- ✓ Higher Flexibility
- ✓ Easier Solder Termination
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Metal Coverings
- ✓ Metal & Taped Shielding
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Color Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| S201 | 7 | 0.152 | 0.12 | 0.46 | T / F | 4.72 | 24 |
| S202 | 7 | 0.16 | 0.14 | 0.48 | T / F | 4.8 | 25 |
| S203 | 1 | 0.51 | 0.2 | 0.51 | T / F | 5.2 | 26 |
| S204 | 7 | 0.2 | 0.22 | 0.59 | T / F | 5.4 | 26 |
| S205 | 7 | 0.274 | 0.42 | 0.81 | T / F | 5.6 | 33 |
| S206 | 14 | 0.2 | 0.45 | 0.84 | T / F | 5.7 | 36 |
| S207 | 1 | 0.81 | 0.5 | 0.81 | T / F | 5.7 | 33 |
| S208 | 7 | 0.300 | 0.5 | 0.89 | T / F | 6 | 34 |
| S209 | 24 | 0.2 | 0.75 | 1.1 | T / F | 6.4 | 40 |
| S210 | 14 | 0.3 | 1 | 1.26 | T / F | 6.8 | 50 |
| S211 | 3 | 0.711 | 1.2 | 1.39 | T / F | 7 | 57 |
| S212 | 40 | 0.2 | 1.25 | 1.42 | T / F | 7.1 | 60 |
| S213 | 1 | 1.29 | 1.3 | 1.29 | T / F | 6.9 | 62 |
| S214 | 19 | 0.3 | 1.3 | 1.52 | T / F | 7.25 | 62 |
| S215 | 21 | 0.3 | 1.5 | 1.55 | T / F | 7.35 | 67 |
| S216 | 35 | 0.3 | 2.5 | 2 | T / F | 9 | 97 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (SXXX) | (X) | (X) | (XX) | (X) | (X) |
| 201 to 216 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) F-(Flat) |

Table 1

# S-301

## THERMOCOUPLE CABLE

**SILICON - FIBER GLASS - BARE COPPER BRAIDING - 300°C**

IS 9968, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Silicon Insulation |
| Construction | : | Twisted / Flat |
| Outer Jacket | : | Fiber Glass Insulation with High Temp Varnish |
| Overall Braiding | : | Copper wire Braiding. |
| Operating Temp. | : | 300°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584. |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 300°C
- ✓ Excellent Resistance to Ozone & Corona Effect
- ✓ Excellent Heat Resistant
- ✓ Higher Flexibility
- ✓ Easier Solder Termination
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Metal & Taped Shielding
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| S301 | 7 | 0.152 | 0.12 | 0.46 | T / F | 4.62 | 25 |
| S302 | 7 | 0.16 | 0.14 | 0.48 | T / F | 4.7 | 26 |
| S303 | 1 | 0.51 | 0.2 | 0.51 | T / F | 5.1 | 27 |
| S304 | 7 | 0.2 | 0.22 | 0.59 | T / F | 5.3 | 27 |
| S305 | 7 | 0.274 | 0.42 | 0.81 | T / F | 5.5 | 35 |
| S306 | 14 | 0.2 | 0.45 | 0.84 | T / F | 5.6 | 38 |
| S307 | 1 | 0.81 | 0.5 | 0.81 | T / F | 5.6 | 35 |
| S308 | 7 | 0.300 | 0.5 | 0.89 | T / F | 5.9 | 37 |
| S309 | 24 | 0.2 | 0.75 | 1.1 | T / F | 6.3 | 43 |
| S310 | 14 | 0.3 | 1 | 1.26 | T / F | 6.7 | 53 |
| S311 | 3 | 0.711 | 1.2 | 1.39 | T / F | 6.9 | 60 |
| S312 | 40 | 0.2 | 1.25 | 1.42 | T / F | 7 | 64 |
| S313 | 1 | 1.29 | 1.3 | 1.29 | T / F | 6.8 | 66 |
| S314 | 19 | 0.3 | 1.3 | 1.52 | T / F | 7.15 | 6 |
| S315 | 21 | 0.3 | 1.5 | 1.55 | T / F | 7.25 | 75 |
| S316 | 35 | 0.3 | 2.5 | 2 | T / F | 8.9 | 105 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (SXXX) | (X) | (X) | (XX) | (X) | (X) |
| 301 to 316 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) F-(Flat) |

Table 1

TEMPSENS INSTRUMENTS

# S-401

## THERMOCOUPLE CABLE

**SILICON - FIBER GLASS - SILICON - COPPER BRAIDING - 200°C**

IS 9968, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Silicon / Fiber Glass Insulation with High Temp. Varnish Insulated |
| Construction | : | Twisted |
| Inner Jacket | : | Silicon Insulated |
| Overall Braiding | : | Copper Wire Braiding |
| Operating Temp. | : | 200°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 200°C
- ✓ Excellent Resistance to Ozone & Corona Effect
- ✓ Excellent Heat Resistant
- ✓ Higher Flexibility
- ✓ Easier Solder Termination
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Almylar Tape Shielding
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| S401 | 7 | 0.152 | 0.12 | 0.46 | Twisted | 5.2 | 30 |
| S402 | 7 | 0.16 | 0.14 | 0.48 | Twisted | 5.4 | 32 |
| S403 | 1 | 0.51 | 0.2 | 0.51 | Twisted | 6.1 | 35 |
| S404 | 7 | 0.2 | 0.22 | 0.59 | Twisted | 6.6 | 38 |
| S405 | 7 | 0.274 | 0.42 | 0.81 | Twisted | 7.2 | 53 |
| S406 | 14 | 0.2 | 0.45 | 0.84 | Twisted | 7.3 | 52 |
| S407 | 1 | 0.81 | 0.5 | 0.81 | Twisted | 7.2 | 53 |
| S408 | 7 | 0.300 | 0.5 | 0.89 | Twisted | 7.4 | 55 |
| S409 | 24 | 0.2 | 0.75 | 1.1 | Twisted | 7.8 | 70 |
| S410 | 14 | 0.3 | 1 | 1.26 | Twisted | 8.1 | 80 |
| S411 | 3 | 0.711 | 1.2 | 1.39 | Twisted | 8.3 | 100 |
| S412 | 40 | 0.2 | 1.25 | 1.42 | Twisted | 8.4 | 104 |
| S413 | 1 | 1.29 | 1.3 | 1.29 | Twisted | 8.3 | 108 |
| S414 | 19 | 0.3 | 1.3 | 1.52 | Twisted | 9 | 108 |
| S415 | 21 | 0.3 | 1.5 | 1.55 | Twisted | 9.1 | 110 |
| S416 | 35 | 0.3 | 2.5 | 2 | Twisted | 1.5 | 150 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (SXXX) | (X) | (X) | (XX) | (X) | (X) |
| 401 to 416 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) |

Table 1

# S-601

## THERMOCOUPLE CABLE

**SILICON - COPPER SCREEN - SILICON INSULATION - 200°C**

IS 9968, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Silicon Insulation |
| Construction | : | Twisted |
| Screening | : | Copper Screening |
| Outer Jacket | : | Silicon Insulation |
| Operating Temp. | : | 200°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 200°C
- ✓ Excellent Resistance to Ozone & Corona Effect
- ✓ Excellent Heat Resistant
- ✓ Higher Flexibility
- ✓ Easier Solder Termination
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Almylar Tape Screening.
- ✓ Screen with NPC, TPC, SPC
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| S601 | 7 | 0.152 | 0.12 | 0.46 | Twisted | 5 | 26 |
| S602 | 7 | 0.16 | 0.14 | 0.48 | Twisted | 5.2 | 27 |
| S603 | 1 | 0.51 | 0.2 | 0.51 | Twisted | 5.5 | 30 |
| S604 | 7 | 0.2 | 0.22 | 0.59 | Twisted | 5.6 | 31 |
| S605 | 7 | 0.274 | 0.42 | 0.81 | Twisted | 6 | 40 |
| S606 | 14 | 0.2 | 0.45 | 0.84 | Twisted | 6.2 | 42 |
| S607 | 1 | 0.81 | 0.5 | 0.81 | Twisted | 6 | 48 |
| S608 | 7 | 0.300 | 0.5 | 0.89 | Twisted | 6.4 | 49 |
| S609 | 24 | 0.2 | 0.75 | 1.1 | Twisted | 7.3 | 65 |
| S610 | 14 | 0.3 | 1 | 1.26 | Twisted | 7.7 | 70 |
| S611 | 3 | 0.711 | 1.2 | 1.39 | Twisted | 8.5 | 75 |
| S612 | 40 | 0.2 | 1.25 | 1.42 | Twisted | 8.2 | 83 |
| S613 | 1 | 1.29 | 1.3 | 1.29 | Twisted | 8.3 | 90 |
| S614 | 19 | 0.3 | 1.3 | 1.52 | Twisted | 8.5 | 90 |
| S615 | 21 | 0.3 | 1.5 | 1.55 | Twisted | 8.6 | 95 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (SXXX) | (X) | (X) | (XX) | (X) | (X) |
| 601 to 615 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) |

Table 1

# T-101

## THERMOCOUPLE CABLE

### PTFE TWISTED PAIR - 260ºC

JSS 51034, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistranded Thermocouple Grade Materials as per ASTM E230 / 77 & IEC5843 |
| Insulation | : | PTFE Insulation |
| Construction | : | Twisted |
| Operating Temp. | : | 260°C |
| Limits of Error | : | According to ASTM E230 / 77 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. upto 260ºC
- ✓ Excellent Heat Resistant
- ✓ Outstanding Insulating Properties
- ✓ Good Thermal Stability
- ✓ Flame Retardant
- ✓ Passes JSS 51034 Flame Test

### AVAILABLE OPTIONS

- ✓ Metal braiding
- ✓ Fibreglass braided
- ✓ Polymide Insulated
- ✓ Special Color Code
- ✓ Calibration Test Repot

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX.) (gm/meter) |
|---|---|---|---|---|---|---|---|
| T101 | 7 | 0.122 | 0.08 | 0.36 | Twisted | 1.8 | 4.0 |
| T102 | 7 | 0.152 | 0.12 | 0.45 | Twisted | 2.2 | 4.2 |
| T103 | 7 | 0.2 | 0.22 | 0.57 | Twisted | 2.4 | 6.8 |
| T104 | 7 | 0.274 | 0.42 | 0.81 | Twisted | 3.4 | 12.5 |
| T105 | 3 | 0.711 | 1.2 | 1.39 | Twisted | 4.2 | 35.0 |
| T106 | 7 | 0.160 | 0.14 | 0.48 | Twisted | 2.1 | 6.0 |
| T107 | 1 | 0.510 | 0.2 | 0.51 | Twisted | 2.2 | 7.0 |
| T108 | 7 | 0.274 | 0.45 | 0.82 | Twisted | 2.8 | 14.0 |
| T109 | 1 | 0.810 | 0.5 | 0.81 | Twisted | 3.0 | 15.0 |
| T110 | 7 | 0.300 | 0.5 | 0.9 | Twisted | 3.1 | 15.0 |
| T111 | 1 | 1.020 | 0.81 | 1.02 | Twisted | 3.3 | 23.0 |
| T112 | 14 | 0.300 | 1 | 1.26 | Twisted | 3.8 | 26.0 |
| T113 | 1 | 1.290 | 1.3 | 1.29 | Twisted | 4.6 | 40.0 |
| T114 | 19 | 0.300 | 1.3 | 1.52 | Twisted | 4.8 | 40.0 |
| T115 | 40 | 0.200 | 1.25 | 1.42 | Twisted | 4.7 | 35.0 |
| T116 | 21 | 0.300 | 1.5 | 1.55 | Twisted | 4.9 | 45.0 |
| T117 | 1 | 1.788 | 2.5 | 1.788 | Twisted | 5.4 | 65.0 |
| T118 | 56 | 0.300 | 4 | 2.53 | Twisted | 6.6 | 95.0 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (TXXX) | (X) | (X) | (XX) | (X) | (X) |
| 101 to 118 | K T J E N R S D B | T X C | 01 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) |

Table 1

# T-151

## THERMOCOUPLE CABLE

**PTFE - POLYMIDE - COPPER SCREENING - SILICON INSULATED - 200°C**

IS 9968, JSS 51038, JSS 51034, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230/77 & IEC5843 |
| Insulation | : | PTFE Insulation |
| Construction | : | Twisted |
| Isolator | : | Polymide Tape |
| Screening | : | Bare Copper / TPC/NPC/SPC |
| Outer Jacket | : | Silicon Insulation |
| Operating Temp. | : | 200°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to IEC 5843 |

### FEATURES

- ✓ Max. Temp. Up to 200°C
- ✓ Superior Heat Resistance, Cold Resistance
- ✓ Excellent aging Resistance
- ✓ Excellent Flexibility
- ✓ Excellent Humidity Resistivity
- ✓ Excellent Electrical Properties Suit for High Voltage
- ✓ Good Abrasion Resistance
- ✓ Excellent Resist to Electro Magnetic Inter Ference

### AVAILABLE OPTIONS

- ✓ Metal Braiding over Jacket
- ✓ Almyler Tape Shielding
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| T151 | 1 | 0.510 | 0.2 | 0.51 | Twisted | 4.2 | 25 |
| T152 | 1 | 0.711 | 0.4 | 0.711 | Twisted | 4.6 | 43.5 |
| T153 | 7 | 0.274 | 0.42 | 0.81 | Twisted | 4.6 | 44.6 |
| T154 | 13 | 0.200 | 0.4 | 0.81 | Twisted | 4.7 | 43.5 |
| T155 | 3 | 0.711 | 1.2 | 1.39 | Twisted | 6.9 | 85 |
| T156 | 7 | 0.300 | 0.5 | 0.89 | Twisted | 5.4 | 52 |
| T157 | 24 | 0.200 | 0.75 | 1.1 | Twisted | 6 | 66.5 |
| T158 | 14 | 0.300 | 1 | 1.26 | Twisted | 6.4 | 76 |
| T159 | 21 | 0.300 | 1.5 | 1.55 | Twisted | 7.3 | 100 |
| T160 | 1 | 1.020 | 1.81 | 1.02 | Twisted | 6 | 71.5 |
| T161 | 1 | 1.290 | 1.3 | 1.29 | Twisted | 6.5 | 95.4 |
| T162 | 19 | 0.300 | 1.3 | 1.52 | Twisted | 7.2 | 95.4 |
| T163 | 7 | 0.152 | 0.12 | 0.46 | Twisted | 3.7 | 21.66 |
| T164 | 7 | 0.160 | 0.14 | 0.48 | Twisted | 3.8 | 23.2 |
| T165 | 7 | 0.200 | 0.22 | 0.59 | Twisted | 4.3 | 25.6 |
| T166 | 14 | 0.200 | 0.45 | 0.84 | Twisted | 4.8 | 46.2 |
| T167 | 1 | 0.810 | 0.5 | 0.81 | Twisted | 4.7 | 52 |
| T168 | 40 | 0.200 | 1.25 | 1.42 | Twisted | 6.9 | 88 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (TXXX) | (X) | (X) | (XX) | (X) | (X) |
| 151 to 168 | K<br>T<br>J<br>E<br>N<br>R<br>S<br>D<br>B | T<br>X<br>C | 01<br>02<br>-<br>-<br>-<br>-<br>-<br>24 | A-(ANSI)<br>I-(IEC)<br>J-(JIS) | T-(Twisted) |

Table 1

TEMPSENS INSTRUMENTS

# T-201

## THERMOCOUPLE CABLE

**PTFE - PTFE INSULATED - 260°C**

JSS 51034, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 / 77 & IEC5843 |
| Insulation | : | PTFE Insulation |
| Construction | : | Twisted / Flat |
| Outer Jacket | : | PTFE Sheathed |
| Operating Temp. | : | 260°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 260°C
- ✓ Excellent Heat Resistant
- ✓ Outstanding Insulating Properties
- ✓ Good Thermal Stability
- ✓ Good Mechanical Strength
- ✓ Flame Retardant
- ✓ Passes JSS 51034 Flame Test

### AVAILABLE OPTIONS

- ✓ Fiber braiding
- ✓ Armoured
- ✓ Twisted / Shielded Pair
- ✓ Special Colour Code.
- ✓ Calibration Test Repot
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| T201 | 1 | 0.51 | 0.2 | 0.51 | T / F | 2.55 | 11.2 |
| T202 | 1 | 0.711 | 0.4 | 0.711 | T / F | 3.02 | 16.6 |
| T203 | 7 | 0.274 | 0.42 | 0.81 | T / F | 3.22 | 16.78 |
| T204 | 13 | 0.2 | 0.4 | 0.81 | T / F | 3.26 | 16.8 |
| T205 | 3 | 0.711 | 1.2 | 1.39 | T / F | 4.68 | 40.4 |
| T206 | 7 | 0.3 | 0.5 | 0.89 | T / F | 3.38 | 22 |
| T207 | 24 | 0.2 | 0.75 | 1.1 | T / F | 3.8 | 28 |
| T208 | 14 | 0.300 | 1 | 1.26 | T / F | 4.42 | 36 |
| T209 | 21 | 0.3 | 1.5 | 1.55 | T / F | 5 | 53 |
| T210 | 1 | 1.02 | 0.81 | 1.02 | T / F | 3.94 | 29 |
| T211 | 1 | 1.29 | 1.3 | 1.29 | T / F | 4.45 | 47.4 |
| T212 | 19 | 0.30 | 1.3 | 1.52 | T / F | 4.95 | 47.4 |
| T213 | 7 | 0.152 | 0.12 | 0.46 | T / F | 2.02 | 6.58 |
| T214 | 7 | 0.160 | 0.14 | 0.48 | T / F | 2.3 | 8.02 |
| T215 | 7 | 0.200 | 0.22 | 0.59 | T / F | 2.74 | 11.2 |
| T216 | 14 | 0.200 | 0.45 | 0.84 | T / F | 3.26 | 16.6 |
| T217 | 1 | 0.810 | 0.5 | 0.81 | T / F | 3.3 | 22 |
| T218 | 40 | 0.200 | 1.25 | 1.42 | T / F | 4.74 | 44.6 |
| T219 | 35 | 0.300 | 2.5 | 2 | T / F | 6.2 | 75 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (TXXX) | (X) | (X) | (XX) | (X) | (X) |
| 201 to 219 | K<br>T<br>J<br>E<br>N<br>R<br>S<br>D<br>B | T<br>X<br>C | 01<br>02<br>-<br>-<br>-<br>-<br>-<br>24 | A-(ANSI)<br>I-(IEC)<br>J-(JIS) | T-(Twisted)<br>F-(Flat) |

Table 1

TEMPSENS INSTRUMENTS

# T-251

## THERMOCOUPLE CABLE

**PTFE - POLYMIDE - COPPER SCREENING - PTFE - ASBESTOS INSULATED - 300°C**

JSS 51034, JSS 51038, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 / 77 & IEC5843 |
| Insulation | : | PTFE Insulation |
| Construction | : | Twisted |
| Isolator | : | Polymide Tape |
| Screening | : | Bare Copper / TPC / NPC / SPC |
| Outer Jacket | : | PTFE Insulation. |
| Overall Braiding | : | Asbestos Braiding |
| Operating Temp. | : | 300°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584. |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 300°C
- ✓ Excellent Heat Resistant
- ✓ Excellent Thermal Stability
- ✓ Excellent High Voltage with Standing Capability
- ✓ Excellent Chemical Resistivity
- ✓ Good Abrasion Resistance
- ✓ Excellent Resist to Electro Magnetic Inter Ference

### AVAILABLE OPTIONS

- ✓ Metal Braiding over Jacket.
- ✓ Twisted Pair
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| T251 | 1 | 0.510 | 0.2 | 0.51 | Twisted | 4.7 | 24.2 |
| T252 | 1 | 0.711 | 0.4 | 0.711 | Twisted | 5.3 | 36.2 |
| T253 | 7 | 0.274 | 0.42 | 0.81 | Twisted | 5.5 | 37.1 |
| T254 | 13 | 0.200 | 0.4 | 0.81 | Twisted | 5.5 | 36.2 |
| T255 | 3 | 0.711 | 1.2 | 1.39 | Twisted | 7 | 70 |
| T256 | 7 | 0.300 | 0.5 | 0.89 | Twisted | 5.7 | 42 |
| T257 | 24 | 0.200 | 0.75 | 1.1 | Twisted | 6.5 | 60.4 |
| T258 | 14 | 0.300 | 1 | 1.26 | Twisted | 6.8 | 76 |
| T259 | 21 | 0.300 | 1.5 | 1.55 | Twisted | 7.5 | 93 |
| T260 | 1 | 1.020 | 0.81 | 1.02 | Twisted | 6 | 63.4 |
| T261 | 1 | 1.290 | 1.3 | 1.29 | Twisted | 6.9 | 83.5 |
| T262 | 19 | 0.300 | 1.3 | 1.52 | Twisted | 7.3 | 83.5 |
| T263 | 7 | 0.152 | 0.12 | 0.46 | Twisted | 3.8 | 20.66 |
| T264 | 7 | 0.160 | 0.14 | 0.48 | Twisted | 3.9 | 22.2 |
| T265 | 7 | 1.200 | 0.22 | 0.59 | Twisted | 4.8 | 24.8 |
| T266 | 14 | 0.200 | 0.45 | 0.84 | Twisted | 5.6 | 39.2 |
| T267 | 1 | 0.81 | 0.5 | 0.81 | Twisted | 5.5 | 42 |
| T268 | 40 | 0.200 | 1.25 | 1.42 | Twisted | 7.3 | 72.6 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (TXXX) | (X) | (X) | (XX) | (X) | (X) |
| 251 to 268 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) |

Table 1

# T-351

## THERMOCOUPLE CABLE

**PTFE - PTFE - MICA - FIBER GLASS INSULATED - 500°C**

JSS 51034, JSS 51037, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 / 77 & IEC5843 |
| Insulation | : | PTFE Insulation |
| Construction | : | Twisted |
| Inner Sheath | : | PTFE Temperature Saturated |
| Outer Sheath | : | Mica Tape / Fiber Glass with High Temp. Varnish |
| Operating Temp. | : | 500°C |
| Limit of Error | : | According to ASTM E230 / 77, IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 500°C
- ✓ Excellent Heat Resistant
- ✓ Excellent Thermal Resistant
- ✓ Excellent Flame Retardant
- ✓ Good Abrasion Resistance
- ✓ Excellent water submersion Properties
- ✓ High Temperature Rated

### AVAILABLE OPTIONS

- ✓ Asbestos Braiding over Jacket
- ✓ Metal braiding
- ✓ Twisted / Shielded Pair
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| T351 | 1 | 0.510 | 0.2 | 0.51 | Twisted | 3.1 | 14 |
| T352 | 1 | 0.711 | 0.4 | 0.711 | Twisted | 3.6 | 21 |
| T353 | 7 | 0.274 | 0.42 | 0.81 | Twisted | 3.8 | 25.2 |
| T354 | 13 | 0.200 | 0.4 | 0.81 | Twisted | 3.8 | 21 |
| T355 | 3 | 0.711 | 1.2 | 1.39 | Twisted | 5.3 | 49.6 |
| T356 | 7 | 0.300 | 0.5 | 0.89 | Twisted | 4.1 | 29 |
| T357 | 24 | 0.200 | 0.75 | 1.1 | Twisted | 4.7 | 35.8 |
| T358 | 14 | 0.300 | 1 | 1.26 | Twisted | 5 | 38 |
| T359 | 21 | 0.300 | 1.5 | 1.55 | Twisted | 5.6 | 61 |
| T360 | 1 | 1.020 | 0.81 | 1.02 | Twisted | 4.6 | 36.9 |
| T361 | 1 | 1.290 | 1.3 | 1.29 | Twisted | 5.1 | 54.5 |
| T362 | 19 | 0.300 | 1.3 | 1.52 | Twisted | 5.6 | 54.5 |
| T363 | 7 | 0.152 | 0.12 | 0.46 | Twisted | 2.4 | 10.2 |
| T364 | 7 | 0.160 | 0.14 | 0.48 | Twisted | 2.5 | 11.1 |
| T365 | 7 | 0.200 | 0.22 | 0.59 | Twisted | 3.3 | 14.6 |
| T366 | 14 | 0.200 | 0.45 | 0.84 | Twisted | 3.9 | 26.1 |
| T367 | 1 | 0.810 | 0.5 | 0.81 | Twisted | 3.8 | 29 |
| T368 | 40 | 0.200 | 1.25 | 1.42 | Twisted | 5.4 | 52.9 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (TXXX) | (X) | (X) | (XX) | (X) | (X) |
| 351 to 368 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) |

Table 1

# T-401

## THERMOCOUPLE CABLE

**PTFE - PTFE - STEEL BRAIDING INSULATED - 260°C**

JSS 51034, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 / 77 & IEC5843 |
| Insulation | : | PTFE Insulation |
| Construction | : | Twisted / Flat |
| Outer Jacket | : | PTFE Sheathed |
| Braiding | : | Stainless Steel Wire Braiding |
| Operating Temp. | : | 260°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 260°C
- ✓ Excellent Heat Resistant
- ✓ Outstanding Insulating Properties
- ✓ Good Thermal Stability
- ✓ Excellent Mechanical Strength
- ✓ Flame Retardant
- ✓ Passes JSS 51034 Flame Test
- ✓ Good Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Twisted / Shielded Pair
- ✓ Special Colour Code
- ✓ Calibration Test Repot
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| T401 | 1 | 0.51 | 0.2 | 0.51 | T / F | 3.1 | 15 |
| T402 | 7 | 0.2 | 0.22 | 0.59 | T / F | 3.4 | 17 |
| T403 | 1 | 0.711 | 0.41 | 0.711 | T / F | 3.7 | 27 |
| T404 | 1 | 0.81 | 0.5 | 0.81 | T / F | 3.9 | 30 |
| T405 | 7 | 0.3 | 0.5 | 0.89 | T / F | 4.1 | 30 |
| T406 | 24 | 0.2 | 0.75 | 1.1 | T / F | 4.9 | 40 |
| T407 | 7 | 0.4 | 0.89 | 1.21 | T / F | 5.1 | 50 |
| T408 | 14 | 0.300 | 1 | 1.26 | T / F | 5.1 | 60 |
| T409 | 32 | 0.2 | 1 | 1.27 | T / F | 5.2 | 60 |
| T410 | 1 | 1.290 | 1.3 | 1.29 | T / F | 5.2 | 75 |
| T411 | 21 | 0.3 | 1.5 | 1.55 | T / F | 5.8 | 80 |
| T412 | 7 | 0.152 | 0.12 | 0.46 | T / F | 2.42 | 10.7 |
| T413 | 7 | 0.160 | 0.14 | 0.48 | T / F | 2.52 | 14.2 |
| T414 | 7 | 0.274 | 0.42 | 0.81 | T / F | 3.8 | 20 |
| T415 | 14 | 0.200 | 0.45 | 0.84 | T / F | 3.88 | 28.2 |
| T416 | 3 | 0.711 | 1.2 | 1.39 | T / F | 5.3 | 58.6 |
| T417 | 40 | 0.200 | 1.25 | 1.42 | T / F | 5.4 | 65 |
| T418 | 19 | 0.300 | 1.3 | 1.52 | T / F | 5.58 | 75 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (TXXX) | (X) | (X) | (XX) | (X) | (X) |
| 401 to 418 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) F-(Flat) |

Table 1

# T-451

## THERMOCOUPLE CABLE

**PTFE - POLYMIDE - PTFE - MICA - FG - SS BRAIDING INSULATED - 600°C**

JSS 51034, JSS 51037, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | PTFE Temperature Saturated |
| Construction | : | Twisted |
| Isolator | : | Polymide Tape |
| Inner Sheath | : | PTFE Temperature Saturated |
| Outer Sheath | : | Mica Tape / Fiber Glass with High Temp. Varnish |
| Overall Braiding | : | Stainless Wire Armouring |
| Operating Temp. | : | 600°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584. |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 600°C
- ✓ Excellent Heat Resistant
- ✓ Good Thermal Stability
- ✓ Excellent Flame Retardant
- ✓ Excellent Strength
- ✓ Excellent Mechanical Properties

### AVAILABLE OPTIONS

- ✓ Asbestos Braiding Over Jacket
- ✓ Twisted / Shielded Pair
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| T451 | 1 | 0.510 | 0.2 | 0.51 | Twisted | 4.1 | 25.6 |
| T452 | 1 | 0.711 | 0.4 | 0.711 | Twisted | 5.2 | 37.8 |
| T453 | 7 | 0.274 | 0.42 | 0.81 | Twisted | 5.4 | 38.6 |
| T454 | 13 | 0.200 | 0.4 | 0.81 | Twisted | 5.4 | 37.6 |
| T455 | 3 | 0.711 | 1.2 | 1.39 | Twisted | 6.8 | 71.2 |
| T456 | 7 | 0.300 | 0.5 | 0.89 | Twisted | 5.6 | 42 |
| T457 | 24 | 0.200 | 0.75 | 1.1 | Twisted | 6.0 | 51.5 |
| T458 | 14 | 0.300 | 1 | 1.26 | Twisted | 6.3 | 64.5 |
| T459 | 21 | 0.300 | 1.5 | 1.55 | Twisted | 7.2 | 84 |
| T460 | 1 | 1.020 | 0.81 | 1.02 | Twisted | 5.9 | 54.5 |
| T461 | 1 | 1.290 | 1.3 | 1.29 | Twisted | 6.0 | 75.6 |
| T462 | 19 | 0.300 | 1.3 | 1.52 | Twisted | 6.9 | 75.6 |
| T463 | 7 | 0.152 | 0.12 | 0.46 | Twisted | 4.0 | 13.5 |
| T464 | 7 | 0.160 | 0.14 | 0.48 | Twisted | 4.1 | 14.5 |
| T465 | 7 | 1.200 | 0.22 | 0.59 | Twisted | 4.2 | 26.2 |
| T466 | 14 | 0.200 | 0.45 | 0.84 | Twisted | 5.5 | 38.1 |
| T467 | 1 | 0.81 | 0.5 | 0.81 | Twisted | 5.4 | 42 |
| T468 | 40 | 0.200 | 1.25 | 1.42 | Twisted | 6.8 | 73.9 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (TXXX) | (X) | (X) | (XX) | (X) | (X) |
| 451 to 468 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) |

Table 1

TEMPSENS INSTRUMENTS

# T-501

## THERMOCOUPLE CABLE

**PTFE - POLYMIDE - BC SCREENING - PTFE INSULATED - 260°C**

JSS 51034, JSS 51038, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 / 77 & IEC5843 |
| Insulation | : | PTFE Insulation |
| Construction | : | Twisted |
| Isolator | : | Polymide Tape |
| Screening | : | Copper Screening |
| Outer Jacket | : | PTFE Sheathed |
| Operating Temp. | : | 260°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 260°C
- ✓ Excellent Heat Resistant
- ✓ Outstanding Insulating Properties
- ✓ Good Thermal Stability
- ✓ Good Mechanical Strength
- ✓ Flame Retardant
- ✓ Passes JSS 51034 Flame Test
- ✓ Good Abrasion Resistance
- ✓ Excellent Resist to Electro Magnetic Inter Ference

### AVAILABLE OPTIONS

- ✓ Silver Plated Copper Screening
- ✓ NPC Screening
- ✓ Twisted / Shielded Pair
- ✓ Special Colour Code
- ✓ Calibration Test Repot
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| T501 | 1 | 0.51 | 0.2 | 0.51 | Twisted | 3.6 | 17 |
| T502 | 7 | 0.2 | 0.22 | 0.59 | Twisted | 3.6 | 14.5 |
| T503 | 1 | 0.711 | 0.4 | 0.711 | Twisted | 3.8 | 20 |
| T504 | 7 | 0.274 | 0.41 | 0.81 | Twisted | 4 | 20 |
| T505 | 7 | 0.3 | 0.5 | 0.89 | Twisted | 4.4 | 25 |
| T506 | 14 | 0.300 | 1 | 1.26 | Twisted | 5.1 | 43 |
| T507 | 21 | 0.3 | 1.5 | 1.55 | Twisted | 5.7 | 60 |
| T508 | 48 | 0.2 | 1.51 | 1.56 | Twisted | 5.7 | 60 |
| T509 | 7 | 0.152 | 0.12 | 0.46 | Twisted | 2.6 | 13.1 |
| T510 | 7 | 0.16 | 0.14 | 0.48 | Twisted | 2.65 | 13.8 |
| T511 | 14 | 0.2 | 0.45 | 0.84 | Twisted | 3.8 | 27.6 |
| T512 | 7 | 0.3 | 0.5 | 0.89 | Twisted | 4 | 30 |
| T513 | 24 | 0.2 | 0.75 | 1.1 | Twisted | 4.6 | 44.5 |
| T514 | 3 | 0.711 | 1.2 | 1.39 | Twisted | 5.3 | 62.6 |
| T515 | 40 | 0.2 | 1.25 | 1.42 | Twisted | 5.4 | 65.2 |
| T516 | 1 | 0.129 | 1.3 | 1.29 | Twisted | 5.1 | 66.4 |
| T517 | 19 | 0.3 | 1.3 | 1.52 | Twisted | 5.54 | 66.4 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (TXXX) | (X) | (X) | (XX) | (X) | (X) |
| 501 to 517 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) |

Table 1

# T-601

## THERMOCOUPLE CABLE

**PTFE - SILICON INSULATED - 200°C**

JSS 51034, ANSI MC 96.1, IS 9968

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 / 77 & IEC5843 |
| Insulation | : | PTFE Insulation |
| Construction | : | Twisted |
| Outer Jacket | : | Silicon Rubber Sheathed |
| Operating Temp. | : | 200°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 200°C
- ✓ Superior Heat Resistance, Cold Resistance
- ✓ Excellent Strength
- ✓ Excellent Flexibility
- ✓ Excellent Humidity Resistivity
- ✓ Excellent Dielectrical Properties
- ✓ Good Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Fiber Glass Braiding
- ✓ Twisted / Shielded Pair
- ✓ Special Colour Code
- ✓ Calibration Test Repot
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| T601 | 1 | 0.510 | 0.2 | 0.51 | Twisted | 3.4 | 17.6 |
| T602 | 1 | 0.711 | 0.4 | 0.711 | Twisted | 4.1 | 25.6 |
| T603 | 7 | 0.274 | 0.42 | 0.81 | Twisted | 4.25 | 26.1 |
| T604 | 13 | 0.200 | 0.4 | 0.81 | Twisted | 4.25 | 25.6 |
| T605 | 3 | 0.711 | 1.2 | 1.39 | Twisted | 6.1 | 56.6 |
| T606 | 7 | 0.300 | 0.5 | 0.89 | Twisted | 4.45 | 32 |
| T607 | 24 | 0.200 | 0.75 | 1.1 | Twisted | 5.4 | 41.5 |
| T608 | 14 | 0.300 | 1 | 1.26 | Twisted | 5.75 | 53.4 |
| T609 | 21 | 0.300 | 1.5 | 1.55 | Twisted | 6.3 | 70 |
| T610 | 1 | 1.020 | 1.81 | 1.02 | Twisted | 5.2 | 43.2 |
| T611 | 1 | 1.290 | 1.3 | 1.29 | Twisted | 5.8 | 60.2 |
| T612 | 19 | 0.300 | 1.3 | 1.52 | Twisted | 6.2 | 60.2 |
| T613 | 7 | 0.152 | 0.12 | 0.46 | Twisted | 3.5 | 13 |
| T614 | 7 | 0.160 | 0.14 | 0.48 | Twisted | 3.6 | 14.4 |
| T615 | 7 | 0.200 | 0.22 | 0.59 | Twisted | 3.8 | 17.6 |
| T616 | 14 | 0.200 | 0.45 | 0.84 | Twisted | 4.6 | 27.2 |
| T617 | 1 | 0.810 | 0.5 | 0.81 | Twisted | 4.25 | 32 |
| T618 | 40 | 0.200 | 1.25 | 1.42 | Twisted | 6 | 58 |

### ORDERING CODE

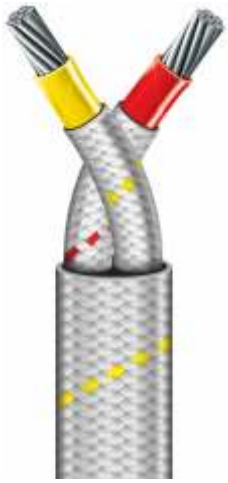
| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (TXXX) | (X) | (X) | (XX) | (X) | (X) |
| 601 to 618 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) |

Table 1

# T-701

## THERMOCOUPLE CABLE

**PTFE - FIBER GLASS - FIBER GLASS INSULATED - 400°C**



JSS 51034, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 / 77 & IEC5843 |
| Insulation | : | PTFE & Fiber Glass Insulation with high temperature Varnish |
| Construction | : | Twisted / Flat |
| Outer Jacket | : | Fiber Glass Insulation with High Temp. Varnish. |
| Operating Temp. | : | 400°C |
| Limit of Error | : | According to ASTM E230 / 77, IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 400°C
- ✓ Excellent Heat Resistant
- ✓ Good Thermal Stability
- ✓ Excellent Flame Retardant
- ✓ Excellent Strength
- ✓ Fair Abrasion Resistance
- ✓ Good Dielectric Strength

### AVAILABLE OPTIONS

- ✓ Metal Braiding over Jacket
- ✓ Twisted / Shielded Pair
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| T701 | 1 | 0.510 | 0.2 | 0.51 | T / F | 3.6 | 16.8 |
| T702 | 1 | 0.711 | 0.4 | 0.711 | T / F | 4 | 26 |
| T703 | 7 | 0.274 | 0.42 | 0.81 | T / F | 4.2 | 26.8 |
| T704 | 13 | 0.200 | 0.4 | 0.81 | T / F | 4.2 | 26 |
| T705 | 3 | 0.711 | 1.2 | 1.39 | T / F | 5.5 | 55.6 |
| T706 | 7 | 0.300 | 0.5 | 0.89 | T / F | 4.3 | 28 |
| T707 | 24 | 0.200 | 0.75 | 1.1 | T / F | 5 | 39 |
| T708 | 14 | 0.300 | 1 | 1.26 | T / F | 5.3 | 50 |
| T709 | 21 | 0.300 | 1.5 | 1.55 | T / F | 6.2 | 67 |
| T710 | 1 | 1.020 | 0.81 | 1.02 | T / F | 5 | 39.5 |
| T711 | 1 | 1.290 | 1.3 | 1.29 | T / F | 5.4 | 58.6 |
| T712 | 19 | 0.300 | 1.3 | 1.52 | T / F | 6.1 | 58.6 |
| T713 | 7 | 0.152 | 0.12 | 0.46 | T / F | 2.6 | 9.4 |
| T714 | 7 | 0.160 | 0.14 | 0.48 | T / F | 2.7 | 10.2 |
| T715 | 7 | 0.200 | 0.22 | 0.59 | T / F | 3.4 | 16.8 |
| T716 | 14 | 0.200 | 0.45 | 0.84 | T / F | 4.3 | 27.5 |
| T717 | 1 | 0.810 | 0.5 | 0.81 | T / F | 4.2 | 28 |
| T718 | 40 | 0.200 | 1.25 | 1.42 | T / F | 5.9 | 57.6 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (TXXX) | (X) | (X) | (XX) | (X) | (X) |
| 701 to 718 | K<br>T<br>J<br>E<br>N<br>R<br>S<br>D<br>B | T<br>X<br>C | 01<br>02<br>-<br>-<br>-<br>-<br>-<br>24 | A-(ANSI)<br>I-(IEC)<br>J-(JIS) | T-(Twisted)<br>F-(Flat) |

Table 1

# T-801

## THERMOCOUPLE CABLE

**PTFE - PTFE - ASBESTOS BRAIDING INSULATED - 400°C**

JSS 51034, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 / 77 & IEC5843 |
| Insulation | : | PTFE Insulation |
| Construction | : | Twisted / Flat |
| Inner Jacket | : | PTFE Insulation |
| Outer Jacket | : | Asbestos Braiding |
| Operating Temp. | : | 400°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 400°C
- ✓ Excellent Heat Resistant
- ✓ Excellent Thermal Stability
- ✓ Excellent Chemical Resistivity
- ✓ Good Abrasion Resistance
- ✓ Good Moisture Resistance.
- ✓ Excellent Dielectric Strength
- ✓ High Temperature Rated

### AVAILABLE OPTIONS

- ✓ Overall Metal Braiding
- ✓ Twisted / Shielded Pair
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| T801 | 1 | 0.510 | 0.2 | 0.51 | T / F | 3.8 | 18.1 |
| T802 | 1 | 0.711 | 0.4 | 0.711 | T / F | 4.6 | 27.9 |
| T803 | 7 | 0.274 | 0.42 | 0.81 | T / F | 4.7 | 28.6 |
| T804 | 13 | 0.200 | 0.4 | 0.81 | T / F | 4.7 | 27.9 |
| T805 | 3 | 0.711 | 1.2 | 1.39 | T / F | 6.4 | 57.6 |
| T806 | 7 | 0.300 | 0.5 | 0.89 | T / F | 4.9 | 31 |
| T807 | 24 | 0.200 | 0.75 | 1.1 | T / F | 5.8 | 39.5 |
| T808 | 14 | 0.300 | 1 | 1.26 | T / F | 6.1 | 47 |
| T809 | 21 | 0.300 | 1.5 | 1.55 | T / F | 6.8 | 67 |
| T810 | 1 | 1.020 | 1.81 | 1.02 | T / F | 5.7 | 42.8 |
| T811 | 1 | 1.290 | 1.3 | 1.29 | T / F | 6.2 | 62.5 |
| T812 | 19 | 0.300 | 1.3 | 1.52 | T / F | 6.7 | 62.5 |
| T813 | 7 | 0.152 | 0.12 | 0.46 | T / F | 3.2 | 17 |
| T814 | 7 | 0.160 | 0.14 | 0.48 | T / F | 3.3 | 17.9 |
| T815 | 7 | 0.200 | 0.22 | 0.59 | T / F | 4.1 | 18.5 |
| T816 | 14 | 0.200 | 0.45 | 0.84 | T / F | 4.8 | 29 |
| T817 | 1 | 0.810 | 0.5 | 0.81 | T / F | 4.7 | 30 |
| T818 | 40 | 0.200 | 1.25 | 1.42 | T / F | 6.6 | 60 |

### ORDERING CODE

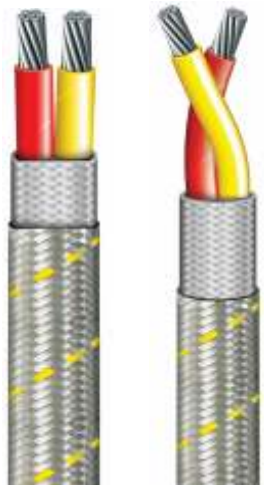
| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (TXXX) | (X) | (X) | (XX) | (X) | (X) |
| 801 to 818 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) F-(Flat) |

Table 1

# T-901

## THERMOCOUPLE CABLE

**PTFE - FIBER GLASS - SS BRAIDING INSULATED - 400°C**



JSS 51034, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 / 77 & IEC5843 |
| Insulation | : | PTFE Insulation. |
| Construction | : | Twisted / Flat |
| Inner Sheath | : | Fiber Glass Insulation with high Temp Varnish |
| Outer Sheath | : | Stainless Steel Wire Braiding |
| Operating Temp. | : | 400°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584. |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 400°C
- ✓ Excellent Heat Resistant
- ✓ Good Thermal Stability
- ✓ Excellent Flame Retardant
- ✓ Excellent Mechanical Strength
- ✓ Excellent Abrasion Resistance
- ✓ High Temperature Rated

### AVAILABLE OPTIONS

- ✓ Overall Asbestos Braiding
- ✓ Twisted / Shielded Pair
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| T901 | 1 | 0.51 | 0.2 | 0.51 | T / F | 3.1 | 14.0 |
| T902 | 7 | 0.2 | 0.22 | 0.59 | T / F | 3.3 | 15.0 |
| T903 | 7 | 0.274 | 0.42 | 0.81 | T / F | 3.7 | 25.0 |
| T904 | 7 | 0.3 | 0.5 | 0.89 | T / F | 4.1 | 28.0 |
| T905 | 14 | 0.3 | 1 | 1.26 | T / F | 4.9 | 45.0 |
| T906 | 3 | 0.711 | 1.2 | 1.39 | T / F | 5.4 | 55.0 |
| T907 | 21 | 0.3 | 1.5 | 1.55 | T / F | 5.5 | 60.0 |
| T908 | 7 | 0.152 | 0.12 | 0.46 | T / F | 2.5 | 16.0 |
| T909 | 7 | 0.16 | 0.14 | 0.48 | T / F | 2.6 | 17.0 |
| T910 | 14 | 0.200 | 0.45 | 0.84 | T / F | 4 | 27.2 |
| T911 | 1 | 0.810 | 0.5 | 0.81 | T / F | 3.9 | 29.3 |
| T912 | 24 | 0.200 | 0.75 | 1.1 | T / F | 4.6 | 42.5 |
| T913 | 40 | 0.200 | 1.25 | 1.42 | T / F | 5.3 | 54.5 |
| T914 | 19 | 0.300 | 1.3 | 1.52 | T / F | 5.6 | 56.4 |
| T915 | 1 | 1.290 | 1.3 | 1.29 | T / F | 5.2 | 56.4 |
| T916 | 35 | 0.300 | 2.5 | 2 | T / F | 6.7 | 90.0 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (TXXX) | (X) | (X) | (XX) | (X) | (X) |
| 901 to 916 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) F-(Flat) |

Table 1

TEMPSENS INSTRUMENTS

# TF-101

## THERMOCOUPLE CABLE

### FEP - FEP INSULATED - 200°C

JSS 51034, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Extruded FEP Insulated |
| Construction | : | Twisted / Flat |
| Outer Jacket | : | Extruded FEP Insulated |
| Operating Temp. | : | 200°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 200°C
- ✓ Suitable for High Voltage Use
- ✓ Low Dielectric Constant
- ✓ Excellent Fire Retardant Property
- ✓ Smaller Diameter
- ✓ Good Mechanical Strength
- ✓ Good Flexibility
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Double Fiber Braid Insulation
- ✓ Metal Coverings
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| TF101 | 7 | 0.152 | 0.12 | 0.46 | T / F | 2.02 | 6.58 |
| TF102 | 7 | 0.160 | 0.14 | 0.48 | T / F | 2.3 | 8.02 |
| TF103 | 1 | 0.510 | 0.2 | 0.51 | T / F | 2.55 | 11.2 |
| TF104 | 7 | 0.200 | 0.22 | 0.59 | T / F | 2.75 | 11.2 |
| TF105 | 7 | 0.274 | 0.42 | 0.81 | T / F | 3.22 | 16.78 |
| TF106 | 14 | 0.200 | 0.45 | 0.84 | T / F | 3.26 | 16.6 |
| TF107 | 1 | 0.810 | 0.5 | 0.81 | T / F | 3.3 | 22 |
| TF108 | 7 | 0.300 | 0.5 | 0.89 | T / F | 3.38 | 22 |
| TF109 | 24 | 0.200 | 0.75 | 1.1 | T / F | 3.8 | 28 |
| TF110 | 14 | 0.300 | 1 | 1.26 | T / F | 4.42 | 36 |
| TF111 | 3 | 0711 | 1.2 | 1.39 | T / F | 4.68 | 40.4 |
| TF112 | 40 | 0.200 | 1.25 | 1.42 | T / F | 4.74 | 44.6 |
| TF113 | 1 | 1.290 | 1.3 | 1.29 | T / F | 4.45 | 47.4 |
| TF114 | 19 | 0.300 | 1.3 | 1.52 | T / F | 4.95 | 47.4 |
| TF115 | 21 | 0.300 | 1.5 | 1.55 | T / F | 5 | 53 |
| TF116 | 35 | 0.300 | 2.5 | 2 | T / F | 6.2 | 75 |

### ORDERING CODE

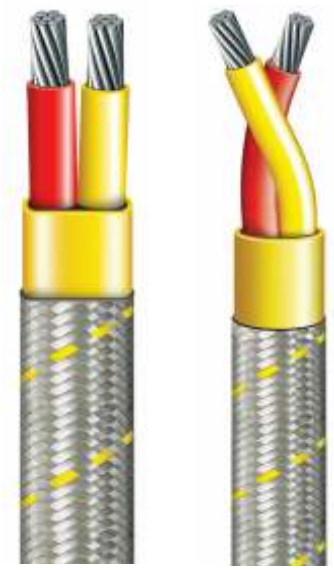
| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (TFXXX) | (X) | (X) | (XX) | (X) | (X) |
| 101 to 116 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) F-(Flat) |

Table 1

# TF-201

## THERMOCOUPLE CABLE

**FEP - FEP SS BRAIDING INSULATED - 200°C**



JSS 51034, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Extruded FEP Insulated |
| Construction | : | Twisted / Flat |
| Outer Jacket | : | Extruded FEP Insulated |
| Outer Braiding | : | Stainless Steel Wire |
| Operating Temp. | : | 200°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584. |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 200°C
- ✓ Suitable for High Voltage Use
- ✓ Low Dielectric Constant
- ✓ Excellent Fire Retardant Property
- ✓ Smaller Diameter
- ✓ Higher Mechanical Strength
- ✓ Good Flexibility
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Metal & Taped Shielding
- ✓ Overall Asbestos Braiding
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available upto 1.1 KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX) (gm/meter) |
|---|---|---|---|---|---|---|---|
| TF201 | 7 | 0.152 | 0.12 | 0.46 | T / F | 2.42 | 10.7 |
| TF202 | 7 | 0.160 | 0.14 | 0.48 | T / F | 2.52 | 14.2 |
| TF203 | 1 | 0.510 | 0.2 | 0.51 | T / F | 3.1 | 13 |
| TF204 | 7 | 0.200 | 0.22 | 0.59 | T / F | 3.4 | 15 |
| TF205 | 7 | 0.274 | 0.42 | 0.81 | T / F | 3.8 | 20 |
| TF206 | 14 | 0.200 | 0.45 | 0.84 | T / F | 3.88 | 28.2 |
| TF207 | 1 | 0.810 | 0.5 | 0.81 | T / F | 3.9 | 21 |
| TF208 | 7 | 0.300 | 0.5 | 0.89 | T / F | 4.1 | 26 |
| TF209 | 24 | 0.200 | 0.75 | 1.1 | T / F | 4.9 | 36 |
| TF210 | 14 | 0.300 | 1 | 1.26 | T / F | 5.1 | 45 |
| TF211 | 3 | 0711 | 1.2 | 1.39 | T / F | 5.3 | 58.6 |
| TF212 | 40 | 0.200 | 1.25 | 1.42 | T / F | 5.4 | 60.2 |
| TF213 | 1 | 1.290 | 1.3 | 1.29 | T / F | 5.2 | 62.2 |
| TF214 | 19 | 0.300 | 1.3 | 1.52 | T / F | 5.58 | 62.2 |
| TF215 | 21 | 0.300 | 1.5 | 1.55 | T / F | 5.8 | 65 |
| TF216 | 35 | 0.300 | 2.5 | 2 | T / F | 6.8 | 100 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (TFXXX) | (X) | (X) | (XX) | (X) | (X) |
| 201 to 216 | K<br>T<br>J<br>E<br>N<br>R<br>S<br>D<br>B | T<br>X<br>C | 01<br>02<br>-<br>-<br>-<br>-<br>-<br>24 | A-(ANSI)<br>I-(IEC)<br>J-(JIS) | T-(Twisted)<br>F-(Flat) |

Table 1

# TF-301

## THERMOCOUPLE WIRE

**FEP - ALMYLAR - FEP INSULATED - 200°C**

JSS 51034, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Extruded FEP Insulated |
| Construction | : | Twisted |
| Outer Braiding | : | Almylar Screen with ATC Drain Wire |
| Outer Jacket | : | Extruded FEP Insulated |
| Operating Temp. | : | 200°C |
| Limit of Error | : | According to ASTM E230/77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 200°C
- ✓ Suitable for High Voltage Use
- ✓ Low Dielectric Constant
- ✓ Excellent Fire Retardant Property
- ✓ Higher Resist to Electromagnetic Signal
- ✓ Smaller Diameter
- ✓ Good Mechanical Strength

### AVAILABLE OPTIONS

- ✓ Metal Covering
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available with 1.1KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX.) (gm/meter) |
|---|---|---|---|---|---|---|---|
| TF301 | 7 | 0.152 | 0.12 | 0.46 | Twisted | 2.5 | 14.66 |
| TF302 | 7 | 0.160 | 0.14 | 0.48 | Twisted | 2.6 | 16.2 |
| TF303 | 1 | 0.510 | 0.2 | 0.51 | Twisted | 3.1 | 19.7 |
| TF304 | 7 | 0.200 | 0.22 | 0.59 | Twisted | 3.2 | 20.4 |
| TF305 | 7 | 0.274 | 0.42 | 0.81 | Twisted | 4 | 28.5 |
| TF306 | 14 | 0.200 | 0.45 | 0.84 | Twisted | 4.1 | 29.8 |
| TF307 | 1 | 0.810 | 0.5 | 0.81 | Twisted | 4 | 32 |
| TF308 | 7 | 0.300 | 0.5 | 0.89 | Twisted | 4.2 | 32 |
| TF309 | 24 | 0.200 | 0.75 | 1.1 | Twisted | 4.7 | 39 |
| TF310 | 14 | 0.300 | 1 | 1.26 | Twisted | 5 | 46.5 |
| TF311 | 3 | 0711 | 1.2 | 1.39 | Twisted | 5.3 | 54.2 |
| TF312 | 40 | 0.200 | 1.25 | 1.42 | Twisted | 5.4 | 57 |
| TF313 | 1 | 1.290 | 1.3 | 1.29 | Twisted | 5.1 | 58.9 |
| TF314 | 19 | 0.300 | 1.3 | 1.52 | Twisted | 5.7 | 58.9 |
| TF315 | 21 | 0.300 | 1.5 | 1.55 | Twisted | 5.8 | 65 |
| TF316 | 35 | 0.300 | 2.5 | 2 | Twisted | 7 | 105 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (TFXXX) | (X) | (X) | (XX) | (X) | (X) |
| 301 to 316 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) |

Table 1

# TF-401

## THERMOCOUPLE WIRE

**FEP - POLYMIDE - COPPER SCREEN - FEP - SS BRAIDING INSULATED - 200°C**

JSS 51034, JSS 51038 ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Extruded FEP Insulated |
| Construction | : | Twisted |
| Isolator | : | Polymide Tape |
| Screening | : | Copper Screen |
| Outer Jacket | : | Extruded FEP Insulated |
| Overall Covering | : | Stainless Steel Wire. |
| Operating Temp. | : | 200°C |
| Limit of Error | : | According to ASTM E230/77 / IEC 584. |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 200°C
- ✓ Suitable for High Voltage Use
- ✓ Low Dielectric Constant
- ✓ Excellent Fire Retardant Property
- ✓ Smaller Diameter
- ✓ Good Mechanical Strength
- ✓ Good Flexibility
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Metal Covering
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available with 1.1KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX.) (gm/meter) |
|---|---|---|---|---|---|---|---|
| TF401 | 7 | 0.152 | 0.12 | 0.46 | Twisted | 3.1 | 19.36 |
| TF402 | 7 | 0.160 | 0.14 | 0.48 | Twisted | 3.2 | 20.8 |
| TF403 | 1 | 0.510 | 0.2 | 0.51 | Twisted | 3.4 | 32.2 |
| TF404 | 7 | 0.200 | 0.22 | 0.59 | Twisted | 3.5 | 33.4 |
| TF405 | 7 | 0.274 | 0.42 | 0.81 | Twisted | 4.7 | 43.56 |
| TF406 | 14 | 0.200 | 0.45 | 0.84 | Twisted | 4.8 | 45.9 |
| TF407 | 1 | 0.810 | 0.5 | 0.81 | Twisted | 4.7 | 48.2 |
| TF408 | 7 | 0.300 | 0.5 | 0.89 | Twisted | 4.9 | 48.2 |
| TF409 | 24 | 0.200 | 0.75 | 1.1 | Twisted | 5.4 | 60.2 |
| TF410 | 14 | 0.300 | 1 | 1.26 | Twisted | 5.8 | 75 |
| TF411 | 3 | 0711 | 1.2 | 1.39 | Twisted | 6 | 83.5 |
| TF412 | 40 | 0.200 | 1.25 | 1.42 | Twisted | 6.1 | 89.5 |
| TF413 | 1 | 1.290 | 1.3 | 1.29 | Twisted | 6.2 | 96.5 |
| TF414 | 19 | 0.300 | 1.3 | 1.52 | Twisted | 6.3 | 96.5 |
| TF415 | 21 | 0.300 | 1.5 | 1.55 | Twisted | 6.4 | 99 |
| TF416 | 35 | 0.300 | 2.5 | 2 | Twisted | 7.6 | 126 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (TFXXX) | (X) | (X) | (XX) | (X) | (X) |
| 401 to 416 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) |

Table 1

TEMPSENS INSTRUMENTS

# TF-601

## THERMOCOUPLE WIRE

**FEP - POLYMIDE - COPPER SCREEN - FEP INSULATED - 200°C**

JSS 51034, JSS 51038 ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Extruded FEP Insulated |
| Construction | : | Twisted |
| Isolator | : | Polymide Tape |
| Screening | : | Copper Screen |
| Outer Jacket | : | Extruded FEP Insulated |
| Operating Temp. | : | 200°C |
| Limit of Error | : | According to ASTM E230 / 77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 200°C
- ✓ Suitable for High Voltage Use
- ✓ Low Dielectric Constant
- ✓ Excellent Fire Retardant Property
- ✓ Smaller Diameter
- ✓ Good Mechanical Strength
- ✓ Good Flexibility
- ✓ Good Moisture, Chemical Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Metal Covering
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code.
- ✓ Calibration Test Report
- ✓ Available with 1.1KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX.) (gm/meter) |
|---|---|---|---|---|---|---|---|
| TF601 | 7 | 0.152 | 0.12 | 0.46 | Twisted | 2.6 | 13.36 |
| TF602 | 7 | 0.160 | 0.14 | 0.48 | Twisted | 2.7 | 14.8 |
| TF603 | 1 | 0.510 | 0.2 | 0.51 | Twisted | 2.8 | 24.2 |
| TF604 | 7 | 0.200 | 0.22 | 0.59 | Twisted | 2.9 | 24.9 |
| TF605 | 7 | 0.274 | 0.42 | 0.81 | Twisted | 4.1 | 33.56 |
| TF606 | 14 | 0.200 | 0.45 | 0.84 | Twisted | 4.2 | 35.9 |
| TF607 | 1 | 0.810 | 0.5 | 0.81 | Twisted | 4.2 | 36.8 |
| TF608 | 7 | 0.300 | 0.5 | 0.89 | Twisted | 4.3 | 36.8 |
| TF609 | 24 | 0.200 | 0.75 | 1.1 | Twisted | 4.8 | 46.5 |
| TF610 | 14 | 0.300 | 1 | 1.26 | Twisted | 5.2 | 59 |
| TF611 | 3 | 0711 | 1.2 | 1.39 | Twisted | 5.4 | 67.5 |
| TF612 | 40 | 0.200 | 1.25 | 1.42 | Twisted | 5.5 | 73.5 |
| TF613 | 1 | 1.290 | 1.3 | 1.29 | Twisted | 5.6 | 75.8 |
| TF614 | 19 | 0.300 | 1.3 | 1.52 | Twisted | 5.7 | 75.8 |
| TF615 | 21 | 0.300 | 1.5 | 1.55 | Twisted | 5.8 | 78 |
| TF616 | 35 | 0.300 | 2.5 | 2 | Twisted | 7 | 105 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (TFXXX) | (X) | (X) | (XX) | (X) | (X) |
| 601 to 616 | K T J E N R S D B | T X C | 01 02 - - - - - 24 | A-(ANSI) I-(IEC) J-(JIS) | T-(Twisted) |

Table 1

# TF-901

## THERMOCOUPLE WIRE

### FEP - SILICON INSULATED - 200°C

JSS 51034,IS 9968, ANSI MC 96.1

Voltage Grade : 300/500V

### SPECIFICATIONS

| | | |
|---|---|---|
| Conductor | : | Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1 |
| Insulation | : | Extruded FEP Insulated |
| Construction | : | Twisted |
| Outer Jacket | : | Extruded Silicon Rubber Insulation |
| Operating Temp. | : | 200°C |
| Limit of Error | : | According to ASTM E230/77 / IEC 584 |
| Color Code | : | According to ANSI MC 96.1 |

### FEATURES

- ✓ Max. Temp. Up to 200°C
- ✓ Suitable for High Voltage Use
- ✓ Low Dielectric Constant
- ✓ Excellent Fire Retardant Property
- ✓ Smaller Diameter
- ✓ Good Mechanical Strength
- ✓ Good Flexibility
- ✓ Good Moisture, Chemical Abrasion Resistance
- ✓ Abrasion Resistance

### AVAILABLE OPTIONS

- ✓ Metal Covering
- ✓ Taped or Metal Shielding
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report
- ✓ Available with 1.1KV

### CONSTRUCTION DETAILS AND DIMENSIONS

| CABLE SIZE | NO. OF STRANDS | STRAND DIAMETER (mm) | AREA OF CONDUCTOR $(mm)^2$ | BARE CONDUCTOR DIA.(mm) | FORMATION | CABLE DIMENSION (mm)(max.) | CABLE WT. (APPROX.) (gm/meter) |
|---|---|---|---|---|---|---|---|
| TF901 | 7 | 0.152 | 0.12 | 0.46 | Twisted | 2.8 | 14.2 |
| TF902 | 7 | 0.160 | 0.14 | 0.48 | Twisted | 3 | 15.5 |
| TF903 | 1 | 0.510 | 0.2 | 0.51 | Twisted | 3.6 | 19.6 |
| TF904 | 7 | 0.200 | 0.22 | 0.59 | Twisted | 3.8 | 20.5 |
| TF905 | 7 | 0.274 | 0.42 | 0.81 | Twisted | 4.2 | 26.6 |
| TF906 | 14 | 0.200 | 0.45 | 0.84 | Twisted | 4.3 | 28.1 |
| TF907 | 1 | 0.810 | 0.5 | 0.81 | Twisted | 4.2 | 31 |
| TF908 | 7 | 0.300 | 0.5 | 0.89 | Twisted | 4.4 | 31 |
| TF909 | 24 | 0.200 | 0.75 | 1.1 | Twisted | 5.4 | 40.5 |
| TF910 | 14 | 0.300 | 1 | 1.26 | Twisted | 5.8 | 52 |
| TF911 | 3 | 0711 | 1.2 | 1.39 | Twisted | 6.4 | 58.6 |
| TF912 | 40 | 0.200 | 1.25 | 1.42 | Twisted | 6.4 | 60.5 |
| TF913 | 1 | 1.290 | 1.3 | 1.29 | Twisted | 6.2 | 65 |
| TF914 | 19 | 0.300 | 1.3 | 1.52 | Twisted | 6.6 | 65 |
| TF915 | 21 | 0.300 | 1.5 | 1.55 | Twisted | 7 | 74 |
| TF916 | 35 | 0.300 | 2.5 | 2 | Twisted | 8.5 | 101 |

### ORDERING CODE

| Conductor Size | Type of T/C | Grade of Conductor | No. of Pairs | Color Code | Cable Formation |
|---|---|---|---|---|---|
| (TFXXX) | (X) | (X) | (XX) | (X) | (X) |
| 901 to 916 | K<br>T<br>J<br>E<br>N<br>R<br>S<br>D<br>B | T<br>X<br>C | 01<br>02<br>-<br>-<br>-<br>-<br>-<br>24 | A-(ANSI)<br>I-(IEC)<br>J-(JIS) | T-(Twisted) |

Table 1