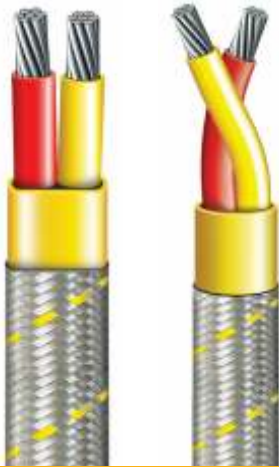


# FP-201

## THERMOCOUPLE CABLE

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



JSS 51034, JSS 51038, ANSI MC 96.1

Voltage Grade : 600V

#### 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 Ordering Code | Wire Type   | AWG / SWG No | No of Strands | Strand Dia (mm) | Cross Section Area (mm <sup>2</sup> ) | Nominal Bunched Conductor Dia (mm) | Cable Formation | Nominal Cable Diameter mm (Flat) | Nominal Cable Diameter mm (Twisted) | Cable Wgt (Approx.) Kg/Km |
|---------------------|-------------|--------------|---------------|-----------------|---------------------------------------|------------------------------------|-----------------|----------------------------------|-------------------------------------|---------------------------|
| FP201               | Solid       | 24 AWG       | 1             | 0.51            | 0.20                                  | 0.51                               | Twisted/Flat    | 3.0 x 2.0                        | 3                                   | 18.0                      |
| FP202               | Multistrand | 7X32 AWG     | 7             | 0.20            | 0.22                                  | 0.56                               | Twisted/Flat    | 3.2 x 2.2                        | 3.2                                 | 19.0                      |
| FP203               | Multistrand | 7X30 AWG     | 7             | 0.25            | 0.35                                  | 0.75                               | Twisted/Flat    | 3.6 x 2.5                        | 3.6                                 | 22.5                      |
| FP204               | Solid       | 22 SWG       | 1             | 0.71            | 0.40                                  | 0.71                               | Twisted/Flat    | 3.7 x 2.4                        | 3.7                                 | 23.0                      |
| FP205               | Multistrand | 7X32 SWG     | 7             | 0.27            | 0.42                                  | 0.82                               | Twisted/Flat    | 3.7 x 2.5                        | 3.7                                 | 24.0                      |
| FP206               | Solid       | 20 AWG       | 1             | 0.81            | 0.50                                  | 0.81                               | Twisted/Flat    | 3.7 x 2.5                        | 3.7                                 | 25.0                      |
| FP207               | Multistrand | 7X29 AWG     | 7             | 0.30            | 0.50                                  | 0.90                               | Twisted/Flat    | 3.8 x 2.7                        | 3.8                                 | 25.0                      |
| FP208               | Multistrand | 16X32 AWG    | 16            | 0.20            | 0.50                                  | 0.90                               | Twisted/Flat    | 4.2 x 2.8                        | 4.2                                 | 25.0                      |
| FP209               | Multistrand | 7X28 AWG     | 7             | 0.32            | 0.56                                  | 0.96                               | Twisted/Flat    | 4.2 x 2.8                        | 4.2                                 | 27.0                      |
| FP210               | Multistrand | 7X27 AWG     | 7             | 0.37            | 0.75                                  | 1.11                               | Twisted/Flat    | 4.6 x 2.9                        | 4.6                                 | 32.0                      |
| FP211               | Multistrand | 24X32 AWG    | 24            | 0.20            | 0.75                                  | 1.11                               | Twisted/Flat    | 4.6 x 2.9                        | 4.6                                 | 32.0                      |
| FP212               | Solid       | 18 AWG       | 1             | 1.02            | 0.81                                  | 1.02                               | Twisted/Flat    | 4.5 x 2.8                        | 4.5                                 | 38.0                      |
| FP213               | Multistrand | 7X26 AWG     | 7             | 0.40            | 0.88                                  | 1.20                               | Twisted/Flat    | 4.7 x 2.9                        | 4.7                                 | 40.0                      |
| FP214               | Solid       | 17 AWG       | 1             | 1.13            | 1.00                                  | 1.13                               | Twisted/Flat    | 4.6 x 2.9                        | 4.6                                 | 42.0                      |
| FP215               | Multistrand | 14X29 AWG    | 14            | 0.30            | 1.00                                  | 1.30                               | Twisted/Flat    | 5.1 x 3.1                        | 5.1                                 | 42.0                      |
| FP216               | Multistrand | 32X32 AWG    | 32            | 0.20            | 1.00                                  | 1.30                               | Twisted/Flat    | 5.1 x 3.1                        | 5.1                                 | 42.0                      |
| FP217               | Multistrand | 7 X 27 SWG   | 7             | 0.43            | 1.00                                  | 1.30                               | Twisted/Flat    | 5.1 x 3.1                        | 5.1                                 | 42.0                      |
| FP218               | Multistrand | 3X22 SWG     | 3             | 0.71            | 1.20                                  | 1.55                               | Twisted/Flat    | 5.7 x 3.5                        | 5.7                                 | 46.0                      |
| FP219               | Multistrand | 40X36 SWG    | 40            | 0.19            | 1.25                                  | 1.40                               | Twisted/Flat    | 5.1 x 3.2                        | 5.1                                 | 46.0                      |
| FP220               | Solid       | 16 AWG       | 1             | 1.29            | 1.30                                  | 1.29                               | Twisted/Flat    | 5.1 x 3.1                        | 5.1                                 | 48.0                      |
| FP221               | Multistrand | 19X29 AWG    | 19            | 0.30            | 1.30                                  | 1.50                               | Twisted/Flat    | 5.7 x 3.5                        | 5.7                                 | 48.0                      |
| FP222               | Multistrand | 19 X 28 AWG  | 19            | 0.32            | 1.50                                  | 1.60                               | Twisted/Flat    | 5.7 x 3.5                        | 5.7                                 | 56.0                      |
| FP223               | Multistrand | 21X29 AWG    | 21            | 0.30            | 1.50                                  | 1.55                               | Twisted/Flat    | 5.7 x 3.5                        | 5.7                                 | 56.0                      |
| FP224               | Multistrand | 7X24 AWG     | 7             | 0.53            | 1.50                                  | 1.55                               | Twisted/Flat    | 5.7 x 3.5                        | 5.7                                 | 56.0                      |
| FP225               | Multistrand | 48X36 SWG    | 48            | 0.19            | 1.50                                  | 1.55                               | Twisted/Flat    | 5.7 x 3.5                        | 5.7                                 | 56.0                      |

Note : Above Parameters are considering single pair cable

#### ORDERING CODE

| Conductor Size | Type of T/C                               | Grade of Conductor | No. of Pairs                       | Color Code                     | Cable Formation         |
|----------------|---|--------------------|------------------------------------|--------------------------------|-------------------------|
| (FPXXX)        | (X)                                       | (X)                | (XX)                               | (X)                            | (X)                     |
| 201 to 225     | K<br>T<br>J<br>E<br>N<br>R<br>S<br>C<br>B | T<br>X<br>C        | 01<br>02<br>-<br>-<br>-<br>-<br>24 | A-(ANSI)<br>I-(IEC)<br>J-(JIS) | T-(Twisted)<br>F-(Flat) |

Table 1