

# T-451

## THERMOCOUPLE CABLE

POLYIMIDE - PTFE - POLYIMIDE - PTFE - MICA - FG - SS BRAIDING INSULATED - 450°C



JSS 51034, JSS 51037, ANSI MC 96.1

Voltage Grade : 600V

### SPECIFICATIONS

Conductor	: Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1
Insulation	: PTFE Temperature Saturated
Construction	: Twisted
Isolator	: Polyimide Tape
Inner Sheath	: PTFE Temperature Saturated
Outer Sheath	: Mica Tape / Fiber Glass with High Temp. Varnish
Overall Braiding	: Stainless Wire Armouring
Operating Temp.	: 450°C
Limit of Error	: According to ASTM E230 / 77 / IEC 584.
Color Code	: According to ANSI MC 96.1

### FEATURES

- ✓ Max. Temp. Up to 450°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 Km

## CONSTRUCTION DETAILS AND DIMENSIONS

Cable Oding Code	Wire Type	AWG / SWG No	No of Strands	Strain Dia (mm)	Cross Section Area (mm <sup>2</sup> )	Nominal Bunched Conductor Dia (mm)	Cable Formation	Nominal Diameter mm (Flat)	Cable Diameter mm (Twisted)	Cable Wgt (Approx.) Kg/Km
T451	Solid	24 AWG	1	0.51	0.20	0.51	Twisted	-	3.9	24.0
T452	Multistrand	7X32 AWG	7	0.20	0.22	0.56	Twisted	-	4.0	26.0
T453	Multistrand	7X30 AWG	7	0.25	0.35	0.75	Twisted	-	4.6	32.0
T454	Solid	22 SWG	1	0.71	0.40	0.71	Twisted	-	4.6	34.0
T455	Multistrand	7X32 SWG	7	0.27	0.42	0.82	Twisted	-	4.8	36.0
T456	Solid	20 AWG	1	0.81	0.50	0.81	Twisted	-	4.8	40.0
T457	Multistrand	7X29 AWG	7	0.30	0.50	0.90	Twisted	-	5.0	40.0
T458	Multistrand	16X32 AWG	16	0.20	0.50	0.90	Twisted	-	5.0	40.0
T459	Multistrand	7X28 AWG	7	0.32	0.56	0.96	Twisted	-	5.2	46.0
T460	Multistrand	7X27 AWG	7	0.37	0.75	1.11	Twisted	-	5.4	52.0
T461	Multistrand	24X32 AWG	24	0.20	0.75	1.11	Twisted	-	5.4	52.0
T462	Solid	18 AWG	1	1.02	0.81	1.02	Twisted	-	5.3	56.0
T463	Multistrand	7X26 AWG	7	0.40	0.88	1.20	Twisted	-	5.8	59.0
T464	Solid	17 AWG	1	1.13	1.00	1.13	Twisted	-	5.5	64.0
T465	Multistrand	14X29 AWG	14	0.30	1.00	1.30	Twisted	-	6.2	64.0
T466	Multistrand	32X32 AWG	32	0.20	1.00	1.30	Twisted	-	6.2	64.0
T467	Multistrand	7 X 27 SWG	7	0.43	1.00	1.30	Twisted	-	6.2	64.0
T468	Multistrand	3X22 SWG	3	0.71	1.20	1.55	Twisted	-	6.6	72.0
T469	Multistrand	40X36 SWG	40	0.19	1.25	1.40	Twisted	-	6.5	75.0
T470	Solid	16 AWG	1	1.29	1.30	1.29	Twisted	-	6.2	80.0
T471	Multistrand	19X29 AWG	19	0.30	1.30	1.50	Twisted	-	6.5	80.0
T472	Multistrand	19 X 28 AWG	19	0.32	1.50	1.60	Twisted	-	6.6	90.0
T473	Multistrand	21X29 AWG	21	0.30	1.50	1.55	Twisted	-	6.5	90.0
T474	Multistrand	7X24 AWG	7	0.53	1.50	1.55	Twisted	-	6.5	90.0
T475	Multistrand	48X36 SWG	48	0.19	1.50	1.55	Twisted	-	6.5	90.0
T476	Multistrand	35X29 AWG	35	0.30	2.50	2.00	Twisted	-	8.0	110.0

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
(TXXX)	(X)	(X)	(XX)	(X)	(X)
451 to 476	K T J E N R S B	T X C	01 02 - - - - 24	A-(ANSI) I-(IEC) J-(JIS)	T-(Twisted)

Table 1