

# IT-101

## INSTRUMENTATION CABLE

**PTFE-POLYIMIDE-COPPER SCREEN-PTFE  
- 260°C**



JSS 51034, JSS 51038, VDE 207-6, IS 8130

Voltage Grade : 600V

### SPECIFICATIONS

Conductor	: Solid, Multistrand, Electrolytic Grade Conductor Bare Copper, NPC, SPC
Insulation	: PTFE Insulated
Construction	: Twisted
Isolator	: Polyimide Tape
Outer Screening	: Copper Wire Braiding
Outer Jacket	: PTFE Sheathed
Operating Temp.	: 260°C

### FEATURES

- ✓ Max. Temp. Up to 260°C
- ✓ Suitable for High Voltage Use
- ✓ Low Dielectric Constant
- ✓ Excellent Fire Retardant Property
- ✓ Halogen Free
- ✓ Higher Mechanical Strength
- ✓ Good Flexibility

### AVAILABLE OPTIONS

- ✓ Metal & Taped Shielding
- ✓ Overall Asbestos Braiding
- ✓ Special Colour Code
- ✓ Available with 1.1 KV Grade

## CONSTRUCTION DETAILS AND DIMENSIONS

Cable Odring Code	Wire Type	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
IT101	Solid	1	0.51	0.2	0.51	Twisted	-	2.9	18
IT102	Multistrand	7	0.2	0.22	0.61	Twisted	-	3.2	19
IT103	Multistrand	7	0.25	0.34	0.76	Twisted	-	3.6	29
IT104	Multistrand	19	0.16	0.38	0.81	Twisted	-	3.7	31
IT105	Multistrand	7	0.27	0.42	0.82	Twisted	-	3.7	33.0
IT106	Multistrand	16	0.20	0.50	0.90	Twisted	-	3.9	36.0
IT107	Multistrand	7	0.30	0.50	0.90	Twisted	-	3.9	36.0
IT108	Solid	1	0.81	0.51	0.81	Twisted	-	3.8	37
IT109	Multistrand	7	0.37	0.75	1.11	Twisted	-	4.5	43.0
IT110	Multistrand	24	0.20	0.75	1.11	Twisted	-	4.5	43.0
IT111	Solid	1	1.02	0.81	1.02	Twisted	-	4.3	46.0
IT112	Multistrand	14	0.30	1.00	1.30	Twisted	-	5	51.0
IT113	Multistrand	32	0.20	1.00	1.30	Twisted	-	5	51.0
IT114	Multistrand	7	0.43	1.00	1.30	Twisted	-	5	51.0
IT115	Multistrand	3	0.71	1.20	1.55	Twisted	-	5.6	61.0
IT116	Multistrand	40	0.19	1.25	1.40	Twisted	-	5.5	63.0
IT117	Solid	1	1.29	1.30	1.29	Twisted	-	5	67.0
IT118	Multistrand	19	0.30	1.30	1.50	Twisted	-	5.5	67.0
IT119	Multistrand	19	0.32	1.50	1.60	Twisted	-	5.6	72.0
IT120	Multistrand	21	0.30	1.50	1.55	Twisted	-	5.6	72.0
IT121	Multistrand	7	0.53	1.50	1.55	Twisted	-	5.6	72.0
IT122	Multistrand	48	0.19	1.50	1.55	Twisted	-	5.6	72.0

**Note :** Above parameters are considering 1 pair cable

### ORDERING CODE

Conductor Size	Type of Conductor	No. of Core	Color Code	Cable Formation
(ITXXX)	(XXX)	(XX)	(XXX)	(X)
101 to 122	BC0 NPC SPC	01 02 - - 48	BW0 CS0	T-(Twisted)

**Note :** BC0 (Bare Copper), NPC (Nickel Plated Copper), SPC (Silver Plated Copper)  
BW0 (Blue - White), CS0 (Customer specification)