

IP-101

INSTRUMENTATION CABLE

PVC - PVC INSULATED - 85°C



IS 694, BS 5308, IS 8130

Voltage Grade : 600/1100V

SPECIFICATIONS

Conductor	: Solid, Multistrand, Electrolytic Grade Conductor Bare Copper, TPC As per IS 8130:84
Insulation	: PVC / FR PVC / FRLS PVC / HR PVC
Construction	: Twisted / Flat
Outer Jacket	: PVC / FR PVC / FRLS PVC / HR PVC
Operating Temp. :	85°C

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

- ✓ Metal Coverings
- ✓ Metal & Taped Shielding
- ✓ Armouring
- ✓ Special Colour Code

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)
IP101	7	0.160	0.14	0.48	T/F	3.7	22.52
IP102	1	0.510	0.2	0.51	T/F	3.8	25.6
IP103	7	0.200	0.22	0.59	T/F	5.2	26.8
IP104	7	0.274	0.42	0.81	T/F	5.6	34.56
IP105	14	0.200	0.45	0.84	T/F	5.7	37.6
IP106	1	0.810	0.5	0.81	T/F	5.6	41
IP107	7	0.300	0.5	0.89	T/F	5.8	41
IP108	24	0.200	0.75	1.1	T/F	6.2	49.5
IP109	14	0.300	1	1.26	T/F	6.9	58
IP110	3	0.711	1.2	1.39	T/F	7.3	63.5
IP111	40	0.200	1.25	1.42	T/F	7.6	66
IP112	1	1.290	1.3	1.29	T/F	7.4	69.5
IP113	19	0.300	1.3	1.52	T/F	7.8	69.5
IP114	21	0.300	1.5	1.55	T/F	7.9	76
IP115	35	0.300	2.5	2	T/F	10	110

ORDERING CODE

Conductor Size	Type of Conductor	No. of Core	Color Code	Cable Formation
(IPXXX)	(XXX)	(XX)	(XXX)	(X)
101 to 115	BC0 NPC TPC SPC	01 02 - - 48	BW0 CS0	T-(Twisted) F-(Flat)

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

IP-201

INSTRUMENTATION CABLE

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



IS 1554, BS 5308, IS 8130

Voltage Grade : 600/1100V

SPECIFICATIONS

Conductor	: Solid, Multistrand, Electrolytic Grade Conductor Bare Copper, TPC, As per IS 8130:84
Insulation	: PVC / FR PVC / FRLS PVC / HR PVC
Construction	: Twisted
Shielding	: Almylar Shield with ATC Drain Wire
Inner Sheath	: PVC / FR PVC / FRLS PVC / HR PVC
Armouring	: Galvanized Iron Wire, Round / Flat Strip
Outer Jacket	: PVC / FR PVC / FRLS PVC / HR PVC
Operating Temp. :	85°C

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

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)
IP201	7	0.160	0.14	0.48	Twisted	8.4	200
IP202	1	0.510	0.2	0.51	Twisted	9.0	215
IP203	7	0.200	0.22	0.59	Twisted	9.2	230
IP204	7	0.274	0.42	0.81	Twisted	9.6	240
IP205	14	0.200	0.45	0.84	Twisted	9.8	250
IP206	1	0.810	0.5	0.81	Twisted	10.0	262
IP207	7	0.300	0.5	0.89	Twisted	10.0	262
IP208	24	0.200	0.75	1.1	Twisted	10.5	278
IP209	14	0.300	1	1.26	Twisted	11.0	310
IP210	3	0.711	1.2	1.39	Twisted	11.5	318
IP211	40	0.200	1.25	1.42	Twisted	11.7	332
IP212	1	1.290	1.3	1.29	Twisted	11.9	335
IP213	19	0.300	1.3	1.52	Twisted	11.8	335
IP214	21	0.300	1.5	1.55	Twisted	12.0	348
IP215	35	0.300	2.5	2	Twisted	12.5	428

ORDERING CODE

Conductor Size	Type of Conductor	No. of Core	Color Code	Cable Formation
(IPXXX)	(XXX)	(XX)	(XXX)	(X)
201 to 215	BC0 NPC TPC SPC	01 02 - - 48	BW0 CS0	T-(Twisted)

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

IPE-101

INSTRUMENTATION CABLE

PE - ALMYLAR - PVC INSULATED - 85 °C



IS 1554, BS 5308, IS 8130

Voltage Grade : 600/1100V

SPECIFICATIONS

Conductor	: Solid, Multistrand, Electrolytic Grade Conductor Bare Copper, TPC As per IS 8130:84
Insulation	: PE Insulation
Construction	: Twisted
Shielding	: Almylar Shield with ATC Drain Wire
Inner Sheath	: PVC / FR PVC / FRLS PVC / HR PVC
Operating Temp	: 85°C

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

- ✓ Armouring
- ✓ Available with Zero Halogen Property
- ✓ Available with Fire Retardant Property
- ✓ Special Colour Code

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)
IPE101	7	0.160	0.14	0.48	Twisted	4.1	30
IPE102	1	0.510	0.2	0.51	Twisted	4.2	32.1
IPE103	7	0.200	0.22	0.59	Twisted	5.6	37
IPE104	7	0.274	0.42	0.81	Twisted	6	47
IPE105	14	0.200	0.45	0.84	Twisted	6.1	48.6
IPE106	1	0.810	0.5	0.81	Twisted	6	54
IPE107	7	0.300	0.5	0.89	Twisted	6.2	54
IPE108	24	0.200	0.75	1.1	Twisted	6.6	64
IPE109	14	0.300	1	1.26	Twisted	7.4	72
IPE110	3	0.711	1.2	1.39	Twisted	7.7	77.8
IPE111	40	0.200	1.25	1.42	Twisted	8	82.2
IPE112	1	1.290	1.3	1.29	Twisted	8	86.5
IPE113	19	0.300	1.3	1.52	Twisted	8.2	86.5
IPE114	21	0.300	1.5	1.55	Twisted	8.3	92
IPE115	35	0.300	2.5	2	Twisted	10.6	138

ORDERING CODE

Conductor Size	Type of Conductor	No. of Core	Color Code	Cable Formation
(IPEXXX)	(XXX)	(XX)	(XXX)	(X)
101 to 115	BC0 NPC TPC SPC	01 02 - - 48	BW0 CS0	T-(Twisted)

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

IT-101

INSTRUMENTATION CABLE

PTFE - PTFE-BC SCREENING - FIBER
GLASS INSULATED - 300°C



JSS 51034, JSS 51038, IS 8130

Voltage Grade : 600/1100V

SPECIFICATIONS

Conductor	: Solid, Multistrand, Electrolytic Grade Conductor Bare Copper, NPC, SPC
Insulation	: PTFE Insulation
Construction	: Twisted
Isolator	: PTFE Tape
Screening	: Copper Screening
Outer Jacket	: Fiber Glass Insulation with Varnish
Operating Temp. :	300°C

FEATURES

- ✓ Max. Temp. Up to 300°C
- ✓ Excellent Heat Resistant
- ✓ Outstanding Insulating Properties
- ✓ Good Thermal Stability
- ✓ Good Mechanical Strength
- ✓ Flame Retardant
- ✓ Passes JSS 51034 Flame Test
- ✓ Abrasion Resistance

AVAILABLE OPTIONS

- ✓ Silver Plated Copper Screening
- ✓ NPC Screening
- ✓ Twisted / Shielded Pair
- ✓ Special Colour Code

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)
IT101	1	0.51	0.2	0.51	Twisted	3.4	15
IT102	7	0.2	0.22	0.59	Twisted	3.6	18
IT103	1	0.711	0.4	0.711	Twisted	3.8	24
IT104	7	0.274	0.41	0.81	Twisted	4	24
IT105	7	0.3	0.5	0.89	Twisted	4.4	34
IT106	14	0.300	1	1.26	Twisted	5.1	50
IT107	21	0.3	1.5	1.55	Twisted	5.7	70
IT108	48	0.2	1.51	1.56	Twisted	5.7	70
IT109	7	0.152	0.12	0.46	Twisted	2.6	13.1
IT110	7	0.16	0.14	0.48	Twisted	2.65	13.8
IT111	14	0.2	0.45	0.84	Twisted	3.8	31
IT112	7	0.3	0.5	0.89	Twisted	4	34
IT113	24	0.2	0.75	1.1	Twisted	4.6	44.5
IT114	3	0.711	1.2	1.39	Twisted	5.3	62.6
IT115	40	0.2	1.25	1.42	Twisted	5.4	65.2
IT116	1	1.29	1.3	1.29	Twisted	5.1	66.4
IT117	19	0.3	1.3	1.52	Twisted	5.54	66.4

ORDERING CODE

Conductor Size	Type of Conductor	No. of Core	Color Code	Cable Formation
(ITXXX)	(XXX)	(XX)	(XXX)	(X)
101 to 117	BC0 NPC TPC SPC	01 02 - - 48	BW0 CS0	T-(Twisted)

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

ITF-101

INSTRUMENTATION CABLE

FEP - FEP - SS BRAIDING INSULATED - 200°C



JSS 51034, IS 8130

Voltage Grade : 600/1100V

SPECIFICATIONS

Conductor	: Solid, Multistrand, Electrolytic Grade Conductor Bare Copper, NPC, SPC, TPC As per IS 8130:84
Insulation	: Extruded FEP Insulated
Construction	: Twisted / Flat
Outer Jacket	: Extruded FEP Insulated
Outer Braiding	: Stainless Steel Wire
Operating Temp.	: 200°C

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
- ✓ Special Colour Code

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)
ITF101	7	0.152	0.12	0.46	T/F	2.42	10.7
ITF102	7	0.160	0.14	0.48	T/F	2.52	14.2
ITF103	1	0.510	0.2	0.51	T/F	3.1	15
ITF104	7	0.200	0.22	0.59	T/F	3.4	17
ITF105	7	0.274	0.42	0.81	T/F	3.8	28
ITF106	14	0.200	0.45	0.84	T/F	3.88	29
ITF107	1	0.810	0.5	0.81	T/F	3.9	30
ITF108	7	0.300	0.5	0.89	T/F	4.1	30
ITF109	24	0.200	0.75	1.1	T/F	4.9	40
ITF110	14	0.300	1	1.26	T/F	5.1	50
ITF111	3	0.711	1.2	1.39	T/F	5.3	58.6
ITF112	40	0.200	1.25	1.42	T/F	5.4	65
ITF113	1	1.290	1.3	1.29	T/F	5.2	75
ITF114	19	0.300	1.3	1.52	T/F	5.58	75
ITF115	21	0.300	1.5	1.55	T/F	5.8	80
ITF116	35	0.300	2.5	2	T/F	6.8	100

ORDERING CODE

Conductor Size	Type of Conductor	No. of Core	Color Code	Cable Formation
(ITFXXX)	(XXX)	(XX)	(XXX)	(X)
101 to 116	BC0 NPC TPC SPC	01 02 - - 48	BW0 CS0	T-(Twisted) F-(Flat)

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

ITF-201

INSTRUMENTATION CABLE

FEP - ALMYLAR - FEP INSULATED - 200°C



JSS 51034, IS 8130

Voltage Grade : 600/1100V

SPECIFICATIONS

Conductor	: Solid, Multistrand, Electrolytic Grade Conductor Bare Copper, NPC, SPC , TPC As per IS 8130:84
Insulation	: Extruded FEP Insulated
Construction	: Twisted
Outer Braiding	: Almylar Screen with ATC Drain Wire
Outer Jacket	: Extruded FEP Insulated
Operating Temp. :	200°C

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
- ✓ Special Colour Code
- ✓ Metal Shielding

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)
ITF201	7	0.152	0.12	0.46	Twisted	2.5	14.66
ITF202	7	0.160	0.14	0.48	Twisted	2.6	16.2
ITF203	1	0.510	0.2	0.51	Twisted	3.1	19.7
ITF204	7	0.200	0.22	0.59	Twisted	3.2	20.4
ITF205	7	0.274	0.42	0.81	Twisted	4	28.5
ITF206	14	0.200	0.45	0.84	Twisted	4.1	29.8
ITF207	1	0.810	0.5	0.81	Twisted	4	32
ITF208	7	0.300	0.5	0.89	Twisted	4.2	32
ITF209	24	0.200	0.75	1.1	Twisted	4.7	39
ITF210	14	0.300	1	1.26	Twisted	5	46.5
ITF211	3	0.711	1.2	1.39	Twisted	5.3	54.2
ITF212	40	0.200	1.25	1.42	Twisted	5.4	57
ITF213	1	1.290	1.3	1.29	Twisted	5.1	58.9
ITF214	19	0.300	1.3	1.52	Twisted	5.7	58.9
ITF215	21	0.300	1.5	1.55	Twisted	5.8	65
ITF216	35	0.300	2.5	2	Twisted	7	105

ORDERING CODE

Conductor Size	Type of Conductor	No. of Core	Color Code	Cable Formation
(ITFXXX)	(XXX)	(XX)	(XXX)	(X)
201 to 216	BC0 NPC TPC SPC	01 02 - - 48	BW0 CS0	T-(Twisted)

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

ITF-301

INSTRUMENTATION CABLE

FEP - POLYIMIDE - COPPER SCREEN -
FEP INSULATED - 200°C



JSS 51034, JSS 51037, JSS 51038, IS 8130

Voltage Grade : 600/1100V

SPECIFICATIONS

Conductor	: Solid, Multistrand, Electrolytic Grade Conductor Bare Copper, NPC, SPC, TPC As per IS 8130:84
Insulation	: Extruded FEP Insulated
Construction	: Twisted
Isolator	: Polyimide Tape
Screening	: Copper Screen
Outer Jacket	: Extruded FEP Insulated
Operating Temp. :	200°C

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
- ✓ Special Colour Code
- ✓ Asbestos Covering

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)
ITF301	7	0.152	0.12	0.46	Twisted	2.6	13.36
ITF302	7	0.160	0.14	0.48	Twisted	2.7	14.8
ITF303	1	0.510	0.2	0.51	Twisted	2.8	24.2
ITF304	7	0.200	0.22	0.59	Twisted	2.9	24.9
ITF305	7	0.274	0.42	0.81	Twisted	4.1	33.56
ITF306	14	0.200	0.45	0.84	Twisted	4.2	35.9
ITF307	1	0.810	0.5	0.81	Twisted	4.2	36.8
ITF308	7	0.300	0.5	0.89	Twisted	4.3	36.8
ITF309	24	0.200	0.75	1.1	Twisted	4.8	46.5
ITF310	14	0.300	1	1.26	Twisted	5.2	59
ITF311	3	0.711	1.2	1.39	Twisted	5.4	67.5
ITF312	40	0.200	1.25	1.42	Twisted	5.5	73.5
ITF313	1	1.290	1.3	1.29	Twisted	5.6	75.8
ITF314	19	0.300	1.3	1.52	Twisted	5.7	75.8
ITF315	21	0.300	1.5	1.55	Twisted	5.8	78
ITF316	35	0.300	2.5	2	Twisted	7	105

ORDERING CODE

Conductor Size	Type of Conductor	No. of Core	Color Code	Cable Formation
(ITFXXX)	(XXX)	(XX)	(XXX)	(X)
301 to 316	BC0 NPC TPC SPC	01 02 - - 48	BW0 CS0	T-(Twisted)

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

IX-101

INSTRUMENTATION CABLE

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



IS 7098, IS 8130, BS 5308

Voltage Grade : 600/1100V

SPECIFICATIONS

Conductor	: Solid, Multistrand, Electrolytic Grade Conductor Bare Copper, TPC, As per IS 8130:84
Insulation	: XLPE Insulation
Construction	: Twisted
Shielding	: Almylar Shield with ATC Drain Wire
Inner Sheath	: PVC / FR PVC / FRLS PVC / HR PVC
Armouring	: Galvanized Iron Wire, Round / Flat Strip
Outer Jacket	: PVC / FR PVC / FRLS PVC / HR PVC
Operating Temp. :	85°C

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

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)
IX101	7	0.160	0.14	0.48	Twisted	8.4	180
IX102	1	0.510	0.2	0.51	Twisted	9.0	200
IX103	7	0.200	0.22	0.59	Twisted	9.2	210
IX104	7	0.274	0.42	0.81	Twisted	9.6	220
IX105	14	0.200	0.45	0.84	Twisted	9.8	230
IX106	1	0.810	0.5	0.81	Twisted	10.0	242
IX107	7	0.300	0.5	0.89	Twisted	10.0	242
IX108	24	0.200	0.75	1.1	Twisted	10.5	258
IX109	14	0.300	1	1.26	Twisted	11.0	280
IX110	3	0.711	1.2	1.39	Twisted	11.5	290
IX111	40	0.200	1.25	1.42	Twisted	11.7	308
IX112	1	1.290	1.3	1.29	Twisted	11.9	313
IX113	19	0.300	1.3	1.52	Twisted	11.8	313
IX114	21	0.300	1.5	1.55	Twisted	12.0	322
IX115	35	0.300	2.5	2	Twisted	12.5	390

ORDERING CODE

Conductor Size	Type of Conductor	No. of Core	Color Code	Cable Formation
(IXXXX)	(XXX)	(XX)	(XXX)	(X)
101 to 115	BC0 NPC TPC SPC	01 02 - - 48	BW0 CS0	T-(Twisted)

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