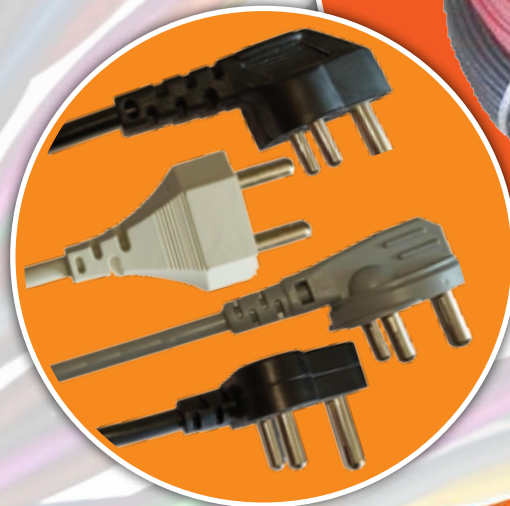




Waiwai

Wires/Cables and Power Cords





ITP is manufacturer of High Quality PVC Wires/Cables with bare and tin coated copper conductors, custom built wire harnesses, Moulded Plug cords (2 Pin /3 Pin), Ferrite Transformers and Relays under JV with Gruner Germany.

Our commitment is to deliver diversified products from one stop shop, under the category of PVC Wires, Wire Harness & Moulded power cords.

The world class Cable Extrusion plant for manufacturing of wires is located at SIDCUL, Haridwar. The plant is equipped with modern cable extrusion facilities. The cable extruder is fitted with HMI Touch Screen panels, Automatic hopper drier and loader, master batch dozer, pre heater, Dual axis wire OD controller with digital display and online spark testers etc. We have facility of making Single core & Multi core cables with single/double insulation and the product manufactured is in compliance with BIS certification IS:694-1100 Volts (Refer below chart for tests conducted on PVC Wires).

We have Multi Cavity Injection moulds for 2/3 pin plugs (2.5, 6, 16 ampere) and the plug cords manufactured are in compliance with BIS Certification IS:1293.

We also have the moulds for straight & right angle type CPU moulded connector for computer cords.

The Laboratory is equipped with all inspection / testing equipment / instruments in accordance with BIS Certifications.

We have a robust manufacturing and strong supply chain. ITP supports full range of wires under the brand of "WAKAI" for Hook up wires, Building wires, Battery Cables, Panel & Instrumentation cables, Charger wires etc. The supplies reach the customer's premises through our efficient sales & distribution network without having to worry for deliveries and you have the assurance of ITP Team for Quality Products and competitive prices.

TESTS ON PVC CABLES AS PER IS-694

SNO.	TYPE OF TEST	IS STANDARD & CLAUSE
Conductor		
1	Anealing test	10810, CL -1
2	Conductor resistance	10810, CL -5
3	Persulphate test for tinned copper	10810, CL -4
4	Overall dimensions, thickness of insulation/sheath	10810, CL -6
Physical tests for PVC		
1	Tensile Strength & Elongation at break	10810, CL -7
2	Loss of Mass test	10810, CL -10
3	Ageing in air oven	10810, CL -11
4	Shrinkage test	10810, CL -12
5	Heat shock test	10810, CL -14
6	Hot deformation test	10810, CL -15
7	Thermal stability test	10810, CL -60
8	Cold bend test	10810, CL -20
9	Cold impact test	10810, CL -21
10	Flammability test	10810, CL -53
11	Oxygen Index test	10810, CL -58
12	Temperature index test	10810, CL -64
13	Halogen Acid Gas evaluation test	10810, CL -59
14	Smoke density test	
Tests on Completed Cable		
1	High Voltage water immersion Test	10810, CL -45
2	High Voltage Spark Test	10810, CL -44,45
3	Insulation Resistance	10810, CL -43
4	High voltage test	10810, CL -45
5	Flammability test	10810, CL -53
6	Additional ageing test	10810, CL -11

COPPER BUNCHING



PVC WIRE/CABLE EXTRUSION









WIRE/CABLE COILING & PACKING



TESTING & INSPECTION LABORATORY



Type of Wires	HOOK UP WIRES	Single core Wire BIS 0.5-25 Sqmm	Single Core Wire BIS FR 0.5-25 Sqmm Single Core Wire BIS HRFR 0.5-25 Sqmm Single Core Wire BIS FRLS 0.5-25 Sqmm Single Core Wire BIS FRLSH 0.5-25 Sqmm																																																																																																																																																																																																																																																																																											
Type	SINGLE CORE, PVC INSULATED, UNSHEATHED, WIRES WITH FLEXIBLE CONDUCTORS FOR MAX. RATED COND. TEMP. 70/85 DEG C WITH RATED VOLTAGES UPTO 1100 VOLTS 	SINGLE CORE, PVC INSULATED, UNSHEATHED, CABLES WITH FLEXIBLE CONDUCTORS AS PER IEC-60228 / IS-8130 CLASS -5, FOR MAX. RATED COND. TEMP 70 / 85 DEG C WITH RATED VOLTAGES UPTO 1100 VOLTS 	FR, HRFR, FRLS, FRLSH PVC INSULATED (AS PER WIRE TYPE) SINGLE CORE, UNSHEATHED, COPPER CONDUCTOR WIRES WITH IMPROVED FIRE PERFORMANCE (C1 - FR, HRFR /C2 - FRLS, FRLSH), FOR WORKING VOLTAGES UPTO & INCLUDING 1100 VOLTS 																																																																																																																																																																																																																																																																																											
Features	<ul style="list-style-type: none"> ✓ Conductor Material- Multi strand, Annealed, Bare or Tin Coated Electrolytic Grade Copper ✓ Flexible Copper Conductors ✓ Insulation:- PVC Compound with properties as per IS:- 5831 suitable for 70 deg C, 85deg C or 105 deg C as required ✓ Colour:- Black, Brown, Red, Orange, Yellow,Green, Blue, Violet, Grey & White or as per Customer's special requirement. ✓ Standard Length:- 500 mtr/ or as per Customer's Order <p>RoHS Compliant</p>	<ul style="list-style-type: none"> ✓ Conductor Material- Multi strand, Annealed, Bare Electrolytic Grade Copper ✓ Flexible Copper Conductors as per IEC-60228/ IS:- 8130-Class 5 ✓ Insulation:- PVC Compound with properties as per IS:- 5831 suitable for 70 deg C, 85 deg C or 105 deg C as required ✓ Colour:- Red, Black, Blue, Green, Yellow, Grey as per Customer's requirement. ✓ Standard Length:- 100 mtr/ or as per Customer's Order <p>RoHS Compliant, IS 694 Certified</p>	<ul style="list-style-type: none"> ✓ Conductor Material- Multi strand, Annealed, Bare Electrolytic Grade Copper ✓ Stranded / Flexible Copper Conductors as per IEC-60228 / IS:- 8130 ✓ Insulation:- FR, HRFR, FRLS, FRLSH PVC Compound (as per the wire type) with properties as per IS:-5831 suitable for 70 deg C, 85 deg C or 105 deg C as required ✓ Colour:- Red, Black, Blue, Green, Yellow, Grey or as per Customer,s requirement. ✓ Standard Length:- 90 mtr in carton box ✓ 100 / 180 / 270 mtr in plastic poly bags <p>RoHS Compliant, IS 694 Certified</p>																																																																																																																																																																																																																																																																																											
Technical Details																																																																																																																																																																																																																																																																																														
Operating Temperature	70 / 85 / 105 deg C	70 / 85/ 105 deg C	70 / 85/ 105 deg C																																																																																																																																																																																																																																																																																											
Rated voltage	Up to & Including 1100 Volts	Up to & Including 1100 Volts	Up to & Including 1100 Volts																																																																																																																																																																																																																																																																																											
Breakdown Voltage	-	6KV (rms) for 5 minutes	6KV (rms) for 5 minutes																																																																																																																																																																																																																																																																																											
Volume Resistivity of PVC at 27 Deg C	1x10 ¹³ Ohm-cm (min)	1x10 ¹³ Ohm-cm (min)	1x10 ¹³ Ohm-cm (min)																																																																																																																																																																																																																																																																																											
Volume Resistivity of PVC at 70 Deg C	1x10 ¹⁰ Ohm-cm (min)	1x10 ¹⁰ Ohm-cm (min)	1x10 ¹⁰ Ohm-cm (min)																																																																																																																																																																																																																																																																																											
Flammability	Period of burning of wire after removal of flame – < 60 sec	Period of burning of wire after removal of flame – < 60 sec	Period of burning of wire after removal of flame – < 60 sec																																																																																																																																																																																																																																																																																											
Fire Retardant Characteristics			FR HRFR FRLS FRLSH																																																																																																																																																																																																																																																																																											
a) Critical Oxygen Index	-	-	29% Min																																																																																																																																																																																																																																																																																											
b) Temperature Index	-	-	250 Deg C Min																																																																																																																																																																																																																																																																																											
c) Smoke Density	-	-	40% Transmission (Min)																																																																																																																																																																																																																																																																																											
d) Hydrochloric Acid Gas Release	-	-	20% (Maximum)																																																																																																																																																																																																																																																																																											
Applications	Hook Up Electric Wires. Used in Electronics,Lighting, Entertainment, Music, PA Audio Systems, PCB Assemblies with Lithium Batteries, LED Panels etc.	Used in Home, Kitchen Appliances, Lighting, Entertainment, Music, PA Audio Systems Heating & Air conditioning systems, Machine and Instrument Panels	FR, HRFR, FRLS & FRLSH PVC Insulated Wires are used in Buildings, Schools, Hospitals etc. & in various Industry segments where Improved Fire Performance (C1 - FR, HRFR & C2 - FRLS, FRLSH)is of utmost requirement.																																																																																																																																																																																																																																																																																											
Product Specifications																																																																																																																																																																																																																																																																																														
Traditional Technical Details	<table border="1"> <thead> <tr> <th colspan="4">Conductor Construction</th> <th colspan="5">Cable</th> <th colspan="5">Conductor Construction</th> <th colspan="5">Cable</th> </tr> <tr> <th colspan="2">Wire size</th> <th>Diameter of single strand-Max</th> <th>Conductor Dia. Max</th> <th>Nominal thickness of insulation</th> <th>Over All Diameter Max.</th> <th>Weight Approx</th> <th>ABC Conductor Resistance at 20°C -Max</th> <th>ATC Conductor Resistance at 20°C -Max</th> <th>Wire Size</th> <th>Diameter of single strand-Max</th> <th>Nominal thickness of insulation</th> <th>Over All Diameter Max.</th> <th>Conductor Resistance at 20°C -Max</th> <th>Nominal cross section</th> <th>Diameter of single strand-Max</th> <th>Conductor Dia Max</th> <th>Nominal thickness of insulation</th> <th>Over All Diameter Max</th> <th>Current carrying capacity# 2 cables, single phase</th> <th>Conductor Resistance at 20°C -Max</th> </tr> <tr> <th>N/d</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>Kg/Km</th> <th>ohm / Km</th> <th>Amps</th> <th>sq mm</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>ohm / Km</th> <th>sq mm</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>Amps</th> <th>Amps</th> <th>ohm / Km</th> </tr> </thead> <tbody> <tr> <td>7/38</td> <td>0.128</td> <td>0.153</td> <td>0.50</td> <td>0.45</td> <td>1.40</td> <td>3.20</td> <td>157.70</td> <td>161.76</td> <td>0.50</td> <td>0.21</td> <td>0.60</td> <td>2.60</td> <td>39.00</td> <td>0.50</td> <td>0.30</td> <td>0.92</td> <td>0.60</td> <td>2.60</td> <td>3</td> <td>4</td> <td>39.00</td> </tr> <tr> <td>9/38</td> <td>0.165</td> <td>0.153</td> <td>0.55</td> <td>0.45</td> <td>1.50</td> <td>3.88</td> <td>119.46</td> <td>122.52</td> <td>0.75</td> <td>0.21</td> <td>0.60</td> <td>2.80</td> <td>26.00</td> <td>0.75</td> <td>0.20</td> <td>1.15</td> <td>0.60</td> <td>2.80</td> <td>6</td> <td>7</td> <td>26.00</td> </tr> <tr> <td>11/38</td> <td>0.202</td> <td>0.153</td> <td>0.60</td> <td>0.40</td> <td>1.50</td> <td>4.38</td> <td>97.74</td> <td>100.25</td> <td>1.00</td> <td>0.21</td> <td>0.70</td> <td>3.00</td> <td>19.50</td> <td>1.00</td> <td>0.30</td> <td>1.30</td> <td>0.70</td> <td>3.00</td> <td>11</td> <td>12</td> <td>18.10</td> </tr> <tr> <td>14/38</td> <td>0.257</td> <td>0.153</td> <td>0.70</td> <td>0.40</td> <td>1.50</td> <td>4.55</td> <td>78.50</td> <td>80.88</td> <td>1.50</td> <td>0.26</td> <td>0.70</td> <td>3.40</td> <td>13.30</td> <td>1.50</td> <td>0.30</td> <td>1.63</td> <td>0.70</td> <td>3.40</td> <td>13</td> <td>16</td> <td>12.10</td> </tr> <tr> <td>7/36</td> <td>0.205</td> <td>0.193</td> <td>0.60</td> <td>0.32</td> <td>1.25</td> <td>3.35</td> <td>95.30</td> <td>97.71</td> <td>2.50</td> <td>0.26</td> <td>0.80</td> <td>4.10</td> <td>7.98</td> <td>2.50</td> <td>0.30</td> <td>2.10</td> <td>0.80</td> <td>4.10</td> <td>18</td> <td>22</td> <td>7.41</td> </tr> <tr> <td>9/36</td> <td>0.263</td> <td>0.193</td> <td>0.72</td> <td>0.39</td> <td>1.50</td> <td>4.59</td> <td>74.09</td> <td>76.00</td> <td>4.00</td> <td>0.31</td> <td>0.80</td> <td>4.80</td> <td>4.95</td> <td>4.00</td> <td>0.30</td> <td>2.60</td> <td>0.80</td> <td>4.80</td> <td>24</td> <td>29</td> <td>4.95</td> </tr> <tr> <td>12/36</td> <td>0.351</td> <td>0.193</td> <td>0.78</td> <td>0.50</td> <td>1.80</td> <td>6.43</td> <td>55.71</td> <td>57.93</td> <td>6.00</td> <td>0.31</td> <td>0.80</td> <td>5.30</td> <td>3.30</td> <td>6.00</td> <td>0.30</td> <td>3.20</td> <td>0.80</td> <td>5.30</td> <td>31</td> <td>37</td> <td>3.30</td> </tr> <tr> <td>14/36</td> <td>0.409</td> <td>0.193</td> <td>0.87</td> <td>0.36</td> <td>1.80</td> <td>6.80</td> <td>47.60</td> <td>48.85</td> <td>10.00</td> <td>0.45</td> <td>1.00</td> <td>7.00</td> <td>1.83</td> <td>10.00</td> <td>0.30</td> <td>4.13</td> <td>1.00</td> <td>7.00</td> <td>42</td> <td>51</td> <td>1.83</td> </tr> <tr> <td>7/36 PTT</td> <td>0.205</td> <td>0.193</td> <td>0.58</td> <td>0.41</td> <td>1.40</td> <td>3.85</td> <td>---</td> <td>87.70</td> <td>16.00</td> <td>0.45</td> <td>1.00</td> <td>8.10</td> <td>1.15</td> <td>16.00</td> <td>0.45</td> <td>5.25</td> <td>1.00</td> <td>8.10</td> <td>57</td> <td>68</td> <td>1.15</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>25.00</td> <td>0.45</td> <td>1.20</td> <td>10.25</td> <td>0.73</td> <td>25.00</td> <td>0.45</td> <td>7.00</td> <td>1.20</td> <td>10.20</td> <td>71</td> <td>86</td> <td>0.78</td> </tr> </tbody> </table>	Conductor Construction				Cable					Conductor Construction					Cable					Wire size		Diameter of single strand-Max	Conductor Dia. 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Type of Wires	Multi Core Wire/Cable	Multi Core Flat Cable	Battery Cable																																																																																																																																																																																																																																																																																		
Type	MULTI CORE, PVC INSULATED, SHEATHED, CABLES WITH FLEXIBLE CONDUCTORS AS PER IEC-60228 /IS-8130 CLASS -5, FOR MAX. RATED COND. TEMP. 70 / 85 DEG C WITH RATED VOLTAGES UPTO 1100 VOLTS 	MULTI CORE, PVC INSULATED, SHEATHED, FLAT CABLES WITH FLEXIBLE CONDUCTORS AS PER IEC-60228/IS-8130 CLASS -5, FOR MAX. RATED COND. TEMP. 70 /85 DEG C WITH RATED VOLTAGES UPTO 1100 VOLTS 	SINGLE CORE, PVC INSULATED, UNSHEATHED, BATTERY CABLES WITH FLEXIBLE CONDUCTORS AS PER IEC-60228 / IS-8130 CLASS -5, FOR VOLTAGES NOT EXCEEDING 100 VOLTS 																																																																																																																																																																																																																																																																																		
Features	<ul style="list-style-type: none"> ✓ Conductor Material- Multi strand, Annealed, Bare Electrolytic Grade Copper ✓ Flexible Copper Conductors as per IEC-60228 / IS:- 8130-Class 5 ✓ Insulation:- PVC Compound with properties as per IS:- 5831 suitable for 70 deg C, 85 deg C or 105 deg C as required ✓ Colour:- As per Customer's Order ✓ Standard Length:- 100 mtr/or as per Customer's Order <p>RoHS Compliant, IS 694 Certified</p>	<ul style="list-style-type: none"> ✓ Conductor Material- Multi strand, Annealed, Bare Electrolytic Grade Copper ✓ Flexible Copper Conductors as per IEC-60228/IS:- 8130-Class 5 ✓ Insulation:- PVC Compound with properties as per IS:- 5831 suitable for 70 deg C, 85 deg C or 105 deg C as required ✓ Colour:- As per Customer's Order ✓ Standard Length:- 100 mtr/or as per Customer's Order <p>RoHS Compliant, IS 694 Certified</p>	<ul style="list-style-type: none"> ✓ Conductor Material- Multi strand, Annealed, Bare Electrolytic Grade Copper ✓ Flexible Copper Conductors as per IEC-60228/IS:- 8130-Class 5 ✓ Insulation:- PVC Compound with properties as per IS:- 2465 ✓ Colour:- Red/Black or As per Customer's Order ✓ Standard Length:- 100 mtr/ or as per Customer's Order <p>RoHS Compliant, IS 694 Certified</p>																																																																																																																																																																																																																																																																																		
Technical Details																																																																																																																																																																																																																																																																																					
Operating Temperature	70 / 85/105 deg C	70 /85/105 deg C	70°C																																																																																																																																																																																																																																																																																		
Rated voltage	Up to & Including 1100 Volts	Up to & Including 1100 Volts	Not Exceeding 100Volts																																																																																																																																																																																																																																																																																		
Breakdown Voltage	6KV(rms) for 5 minutes	6kV(rms) for 5 minutes	6kV(rms) for 5 minutes																																																																																																																																																																																																																																																																																		
Volume Resistivity of PVC at 27 Deg C	1x10 ¹³ Ohm-cm (min)	1x10 ¹³ Ohm-cm (min)	1x10 ¹³ Ohm-cm (min)																																																																																																																																																																																																																																																																																		
Volume Resistivity of PVC at 70 Deg C	1x10 ¹⁰ Ohm-cm (min)	1x10 ¹⁰ Ohm-cm (min)	1x10 ¹⁰ Ohm-cm (min)																																																																																																																																																																																																																																																																																		
Flammability	Period of burning of wire after removal of flame – < 60 sec	Period of burning of wire after removal of flame – < 60 sec	Period of burning of wire after removal of flame – < 60 sec																																																																																																																																																																																																																																																																																		
Fire Retardant Characteristics																																																																																																																																																																																																																																																																																					
a) Critical Oxygen Index	-	-	-																																																																																																																																																																																																																																																																																		
b) Temperature Index	-	-	-																																																																																																																																																																																																																																																																																		
c) Smoke Density	-	-	-																																																																																																																																																																																																																																																																																		
d) Hydrochloric Acid Gas Release	-	-	-																																																																																																																																																																																																																																																																																		
Applications	These Cables have wide range of Applications i.e. Fixed Wiring, Panel Wiring, Battery Cable, Electric Motors, Domestic Appliances & Housing / Industrial/ Commercial Establishments	These Cables have wide range of Applications i.e. Lighting, Fixed Wiring, Panel Wiring, Battery Cable, Electric Motors, Domestic Appliances & Housing / Industrial/ Commercial Establishments	Low Tension Electric Wire for Automobiles Used in Motor Vehicles for lighting, charging and instrument panel circuits																																																																																																																																																																																																																																																																																		
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Dia.	Nominal insulation thickness	Core wire OD	Resistance at 20°C	Nominal Sheath Thickness				Overall Cable OD			Current Rating	Cond Area	No. of strands/strand Dia	Nominal Cond. Dia.	Nominal insulation thickness	Core Wire OD	Nominal Sheath Thickness			Overall Cable Dimensions Width (W) X Thickness (T)	Current Rating	Resistance at 20°C	Conductor Construction				Cable				2 Core mm	3 Core mm	4 Core mm	2 Core mm	3 Core mm	4 Core mm	2 Core mm	3 Core mm	4 Core mm	Nominal Cross section	Diameter of single strand-Max/ normally used	Conductor Dia. nominal	Nominal thickness of insulation	Over All Diameter Max.	Weight Approx	Conductor Resistance at 20°C -Max	Current carrying capacity	Sq mm	N/d	mm	mm	mm	Ohm/Km	2 Core mm	3 Core mm	4 Core mm	2 Core mm	3 Core mm	4 Core mm	Amp	Sq mm	N/d	mm	mm	mm	mm	mm	2 Core W XT mm	3 Core W XT mm	Amp	Ohm/Km	sq mm	mm	mm	mm	mm	Kg/Km	ohm / Km	Amps	0.50	16/20	0.91	0.60	2.15	39.00	0.90	0.90	0.90	6.20	6.60	7.20	4	0.50	16/20	0.91	0.60	2.15	0.90	0.90	7.2 X 4.9	9.6 X 4.9	4	39.00	4	0.31	2.63	0.80	4.60	56.80	4.95	26	0.75	24/20	1.15	0.60	2.40	26.00	0.90	0.90	0.90	6.80	7.20	7.90	7	0.75	24/20	1.15	0.60	2.40	0.90	0.90	7.8 X 5.2	10.5 X 5.2	7	26.00	6	0.31	3.50	0.80	5.60	77.80	3.30	32	1.00	32/20	1.34	0.60	2.60	19.50	0.90	0.90	0.90	7.00	7.50	8.10	11	1.00	32/20	1.34	0.60	2.60	0.90	0.90	8.0 X 5.4	11.0 X 5.4	11	19.50	10	0.41/0.31	4.70	1.00	7.00	131.70	1.91	42	1.50	48/20	1.64	0.60	2.90	13.30	0.90	0.90	0.90	7.60	8.10	9.00	14	1.50	48/20	1.64	0.60	2.90	0.90	0.90	8.6 X 5.6	10.7 X 5.3	14	13.30	16	0.41/0.31	6.00	1.00	8.10	188.80	1.21	57	2.50	80/20	2.11	0.70	3.50	7.98	1.00	1.00	1.00	9.00	9.60	10.50	19	2.50	80/20	2.11	0.70	3.50	1.00	1.00	10.5 X 6.6	13.0 X 6.2	19	7.98	25	0.41/0.31	7.50	1.20	10.00	292.20	0.78	71	4.00	56/30	2.63	0.80	4.20	4.95	1.00	1.00	1.00	10.60	11.30	12.40	26	4.00	56/30	2.63	0.80	4.20	1.00	1.00	12 X 7.4	15.3 X 7.1	26	4.95										
Cond Area	No. of strands/strand Dia							Nominal Cond. Dia.	Nominal insulation thickness	Core wire OD	Resistance at 20°C	Nominal Sheath Thickness									Overall Cable OD						Current Rating	Cond Area	No. of strands/strand Dia	Nominal Cond. Dia.	Nominal insulation thickness	Core Wire OD	Nominal Sheath Thickness			Overall Cable Dimensions Width (W) X Thickness (T)	Current Rating	Resistance at 20°C	Conductor Construction				Cable																																																																																																																																																																																																																																										
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1.00	32/20	1.34	0.60	2.60	19.50	0.90	0.90	0.90	7.00	7.50	8.10	11	1.00	32/20	1.34	0.60	2.60	0.90	0.90	8.0 X 5.4	11.0 X 5.4	11	19.50	10	0.41/0.31	4.70	1.00	7.00	131.70	1.91	42																																																																																																																																																																																																																																																						
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AV & AVf Cables As Per - JIS C 3406-1993								
S. No	Nominal Crosssectional Area (sq mm)	CONDUCTOR			Vinyl Insulation Thickness (mm)	FINISHED CABLE OD		Conductor Resistance at 20° C (Ohm/Mtr)
		No. of Cond. Strands/ Strand Dia (n/d)	Calculated Crosssectional Area (sq mm)	Bunched Conductor Dia (mm)		Standard OD (mm)	Maximum OD (mm)	
1	AV 0.5	7/0.32	0.5629	1.0	0.6	2.2	2.4	0.0327
2	AVf0.5	20/0.18	0.5087	1.0	0.6	2.2	2.4	0.0367
3	AVf 0.75	30/0.18	0.7630	1.2	0.6	2.4	2.6	0.0244
4	AV 0.85	11/0.32	0.8846	1.2	0.6	2.4	2.6	0.0208
5	AV 1.25	16/0.32	1.287	1.5	0.6	2.7	2.9	0.0143
6	AVf 1.25	50/0.18	1.273	1.5	0.6	2.7	2.9	0.0147
7	AV 2.0	26/0.32	2.091	1.9	0.6	3.1	3.4	0.00881
8	AV 3.0	41/0.32	3.297	2.4	0.7	3.8	4.1	0.00559
9	AV 5.0	65/0.32	5.228	3.0	0.8	4.6	4.9	0.00352
10	AV 8.0	50/0.45	7.952	3.7	0.9	5.5	5.8	0.00232
11	AV 15.0	84/0.45	13.36	4.8	1.1	7.0	7.4	0.00138
12	AV 20.0	41/0.80	20.61	6.0	1.1	8.2	8.8	0.000887

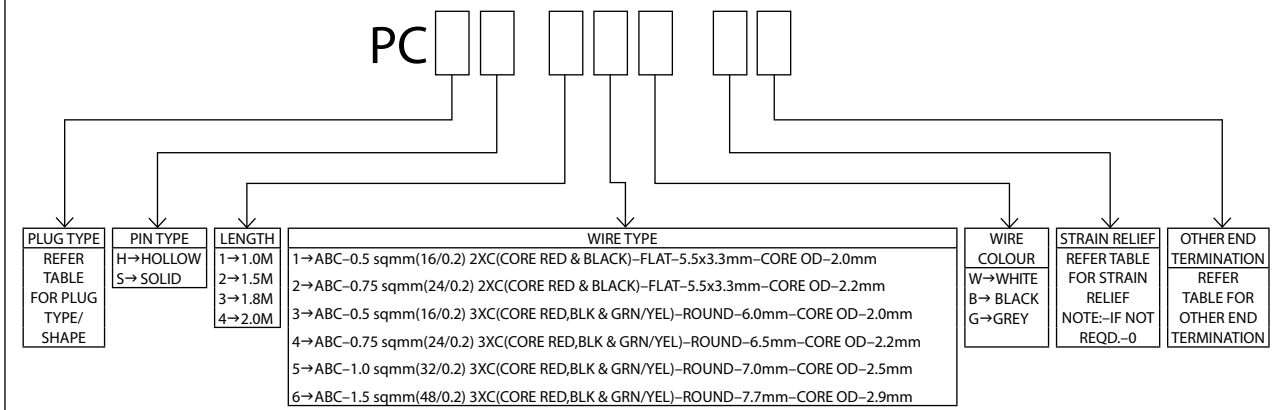
AVS & AVSf Cables As Per - JASO D 611-1994								
S. No	Nominal Crosssectional Area (sq mm)	CONDUCTOR			Vinyl Insulation Thickness (mm)	FINISHED CABLE OD		Conductor Resistance at 20° C (Ohm/Mtr)
		No. of Cond. Strands/ Strand Dia (n/d)	Calculated Crosssectional Area (sq mm)	Bunched Conductor Dia (mm)		Standard OD (mm)	Maximum OD (mm)	
1	AVS 0.3	7/0.26	0.3716	0.8	0.5	1.8	1.9	0.0502
2	AVS 0.5	7/0.32	0.5629	1	0.5	2.0	2.1	0.0327
3	AVS 0.85	16/0.26	0.8494	1.2	0.5	2.2	2.3	0.022
4	AVS 0.85	11/0.32	0.8846	1.2	0.5	2.2	2.3	0.0208
5	AVS 1.25	16/0.32	1.287	1.5	0.5	2.5	2.6	0.0143
6	AVS 2.0	26/0.32	2.091	1.9	0.5	2.9	3.1	0.00881
7	AVS 3.0	41/0.32	3.297	2.4	0.6	3.6	3.8	0.00559
8	AVS 5.0	65/0.32	5.228	3.0	0.7	4.4	4.6	0.00352
9	AVSf 0.3	15/0.18	0.3817	0.8	0.5	1.8	1.9	0.0489
10	AVSf 0.5	20/0.18	0.5087	1	0.5	2.0	2.1	0.0367
11	AVSf 0.75	30/0.18	0.763	1.2	0.5	2.2	2.3	0.0244
12	AVSf 1.25	50/0.18	1.273	1.5	0.5	2.5	2.6	0.0147
13	AVSf 2.0	37/0.26	1.964	1.9	0.5	2.9	3.1	0.0095

AVSS & AVSSf Cables As Per - JASO D 611-1994								
S. No	Nominal Crosssectional Area (sq mm)	CONDUCTOR			Vinyl Insulation Thickness (mm)	FINISHED CABLE OD		Conductor Resistance at 20° C (Ohm/Mtr)
		No. of Cond. Strands/ Strand Dia (n/d)	Calculated Crosssectional Area (sq mm)	Bunched Conductor Dia (mm)		Standard OD (mm)	Maximum OD (mm)	
1	AVSS 0.3	7/0.26	0.3716	0.8	0.24-0.30	1.4	1.5	0.0502
2	AVSS 0.5	7/0.32	0.5629	1	0.24-0.30	1.6	1.7	0.0327
3	AVSSf 0.5	19/0.19	0.5387	1	0.24-0.30	1.6	1.7	0.0346
4	AVSSf 0.75	19/0.23	0.7895	1.2	0.24-0.30	1.8	1.9	0.0236
5	AVSSf 1.25	37/0.21	1.282	1.5	0.24-0.30	2.1	2.2	0.0146
6	AVSSf 2.0	37/0.26	1.964	1.8	0.32-0.40	2.6	2.7	0.0095

FLRY-B Cables As Per ISO - 6722-2 (Formerly DIN-72551)								
S. No	Nominal Crosssectional Area (sq mm)	CONDUCTOR			Vinyl Insulation Thickness (mm)	FINISHED CABLE OD		Conductor Resistance at 20° C (Ohm/Mtr)
		No. of Cond. Strands/ Strand Dia Max (n/d)	Calculated Crosssectional Area (sq mm)	Bunched Conductor Dia (mm)		Standard OD (mm)	Maximum OD (mm)	
1	0.35	19/16	0.381	0.80	0.20	1.2	1.4	0.0544
2	0.5	16/21	0.553	1.0	0.22	1.4	1.6	0.0371
3	0.75	24/21	0.865	1.2	0.24	1.7	1.9	0.0247
4	1.0	32/21	1.107	1.35	0.24	1.9	2.1	0.0185
5	1.5	30/26	1.592	1.70	0.24	2.2	2.4	0.0127
6	2.5	50/26	2.653	2.20	0.28	2.7	3.0	0.00760
7	4.0	56/31	4.224	2.75	0.32	3.4	3.7	0.00471
8	6.0	84/31	6.336	3.30	0.32	4.0	4.3	0.00314

POWER CORD

HOW TO ORDER



PLUG TYPE

2 PIN PLUG TOP - 2.5 AMPERE



3 PIN PLUG TOP - 6 AMPERE



3 PIN PLUG TOP - 16 AMPERE



STRAIN RELIEF





OTHER END TERMINATION

 ALL WIRES ARE STRIPPED - 10mm 1	 ALL WIRES ARE STRIPPED & TINNED - 10mm 2	 BOTH WIRES - 4.8 F TERMINAL (M3 BATTERY CLIP) WITHOUT HST / INSULATION CAPS 3
 BOTH WIRES - 4.8 F TERMINAL (M3 BATTERY CLIP) WITH INSULATION CAPS 4	 BOTH WIRES - 6.4 F TERMINAL (M5 BATTERY CLIP) WITHOUT HST / INSULATION CAPS 5	 BOTH WIRES - 6.4 F TERMINAL (M5 BATTERY CLIP) WITH INSULATION CAPS 6
 ALL WIRES ARE STRIPPED - 10mm 7	 ALL WIRES ARE STRIPPED & TINNED - 10mm 8	 ONE WIRE - EARTH TERMINAL (LA104) WITH BLACK HST OTHER WIRES STRIPPED - 10mm 9
 ONE WIRE - EARTH TERMINAL (LA105) WITH BLACK HST OTHER WIRES STRIPPED - 10mm 10	 ONE WIRE - EARTH TERMINAL (LA104) WITH BLACK HST OTHER WIRES STRIPPED & TINNED - 10mm 11	 ONE WIRE - EARTH TERMINAL (LA105) WITH BLACK HST OTHER WIRES STRIPPED & TINNED - 10mm 12
 ONE WIRE - EARTH TERMINAL (LA104) WITH BLACK HST OTHER WIRES - 4.8 F TERMINAL (M3 BATTERY CLIP) WITHOUT HST / INSULATION CAPS 13	 ONE WIRE - EARTH TERMINAL (LA105) WITH BLACK HST OTHER WIRES - 4.8 F TERMINAL (M3 BATTERY CLIP) WITHOUT HST / INSULATION CAPS 14	 ONE WIRE - EARTH TERMINAL (LA104) WITH BLACK HST OTHER WIRES - 4.8 F TERMINAL (M3 BATTERY CLIP) WITH INSULATION CAPS 15
 ONE WIRE - EARTH TERMINAL (LA105) WITH BLACK HST OTHER WIRES - 4.8 F TERMINAL (M3 BATTERY CLIP) WITH INSULATION CAPS 16	 ONE WIRE - EARTH TERMINAL (LA104) WITH BLACK HST OTHER WIRES - 6.4 F TERMINAL (M5 BATTERY CLIP) WITHOUT HST / INSULATION CAPS 17	 ONE WIRE - EARTH TERMINAL (LA105) WITH BLACK HST OTHER WIRES - 6.4 F TERMINAL (M5 BATTERY CLIP) WITHOUT HST / INSULATION CAPS 18
 ONE WIRE - EARTH TERMINAL (LA104) WITH BLACK HST OTHER WIRES - 6.4 F TERMINAL (M5 BATTERY CLIP) WITH INSULATION CAPS 19	 ONE WIRE - EARTH TERMINAL (LA105) WITH BLACK HST OTHER WIRES - 6.4 F TERMINAL (M5 BATTERY CLIP) WITH INSULATION CAPS 20	 OTHER END WITH STRIGHT CPU MOULDED CONNECTOR 21
		 OTHER END WITH RIGHT ANGLED CPU MOULDED CONNECTOR 22

NOTE:- REFER NEXT PAGE FOR DIMENSIONAL DETAILS OF PLUGS, CPU CONNECTORS AND OTHER END TERMINATION LUGS.

Example of Part Numbering:

3 Pin Plug with Hollow Pins, Length 1.8 Meter, 3 Core ABC 0.75 Sq.mm Wire, Black Colour, Without Strain Relief and Other end all Wires Stripped & Tinned.

For above Power Cord, the Part No. is

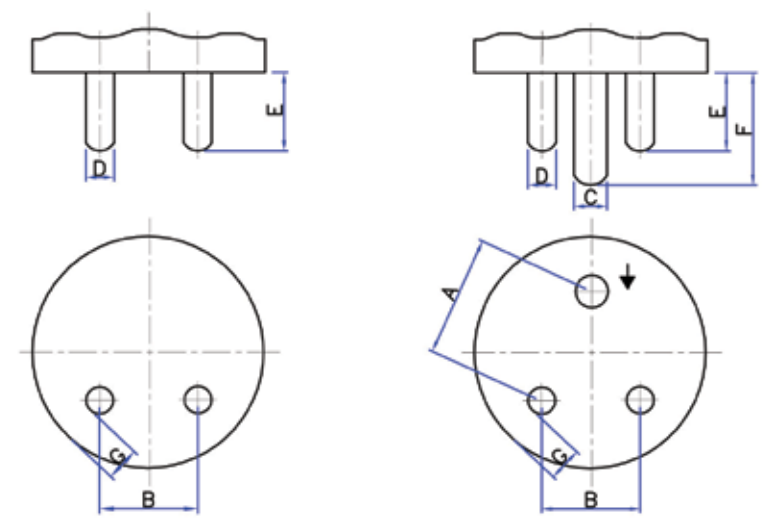
PC E H — 3 4 B — 0 8

DIMENSIONAL DETAILS OF PLUGS, CPU CONNECTORS AND OTHER END TERMINATION LUGS

DIMENSIONAL DETAILS OF 2/3 PIN PLUGS

Notation	Plug Type - (A,B,C) 2 Pin 2.5A	Plug Type - (D,E,F) 3 Pin 6/10A*	Plug Type - (J) 3 Pin 16A
A	-	22.2 ± 0.15	28.6 ± 0.15
B	19.10 ± 0.15	19.1 ± 0.15	25.4 ± 0.15
	16.50 ± 0.10*		
C	-	7.06 +0.025 / -0.050	8.71 +0.025 / -0.050
D	5.08 +0.025 / -0.050	5.08 +0.025 / -0.050	7.06 + 0.025 / -0.050
E	15.9 + 1.04 / -0.13	15.9 + 1.04 / -0.13	20.6 + 1.04 / -0.13
F	-	20.6 + 1.04 / -0.13	28.6 + 1.04 / -0.13
G Min	7.94	7.94	9.52

Notes: (a) *In 2.5A 2 pin power cord, pin gap of 16.5 (Dimension B) and 3 pin 10A power cord are not covered in BIS. (b) For shapes of Plugs, CPU Connector & Moulded Strain Relief / Grommet, Please see page no. 9.



DIMENSIONAL DETAILS OF OTHER END TERMINATION LUGS

 4.8 F TERMINAL (M3 BATTERY CLIP)	 6.4 F TERMINAL (M5 BATTERY CLIP)	 LA-104	 LA-105
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CPU CONNECTOR DIMENSIONS STRAIN RELIEF (GROMMET) DIMENSIONS

 STRAIGHT CPU MOULDED CONNECTOR	 RIGHT ANGLED CPU MOULDED CONNECTOR	 1	 2	 3	 4	 5
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REFER TYPE-21

REFER TYPE-22



About Us

ITP Electronics Pvt Ltd is trusted by various OEM customers for a range of customized electrical and electro-magnetic components & sub-assemblies which include:

- Wires & Cables
- Wire harness
- Power cords
- Ferrite transformers and Coils
- Acoustic Components

Equipped with state-of-the-art CNC controlled machines and advanced Test Lab, the wire and cable plant is located in Haridwar around 250km north east of Delhi & can produce 150km per day of wires in various sizes & in single / multi core variants.

The wire harness plants located in Haridwar and Gurgaon produces wire harnesses involving about 20 millions of crimped connections every month & each one is produced to highest of quality standard.

Its wound components line has a capacity to produce 100K inductors and ferrite transformers per day. It operates from two plants located in Gurgaon (near New Delhi) and Haridwar.

Established in year 2001, ITP Electronics is a part of ITP group - a global manufacturing and distribution company with a wide product range spanning from electronic components, batteries, power supplies, solar products SMPS transformers, wire harnesses, wires and moulded Plug cords.

Diverse Product Range

Since its inception, ITP Electronics an ISO 9001:2015 company has always produced quality products be it BIS certified range of wires or fine pitch connector based harnesses or special connector harnesses such as D-sub, USB or any other connector. Most of the connectors used are ROHS and have UL approvals. The Moulded plug cords range and battery cables cater to diverse needs of different customers.

Wound components line produces EE/EI/EER/ETD/EFD/EPC/PQ/ Drum coil/RM/Rod Core/UU/UT series customised inductors and transformers as per customer requirements.

Excellence in Manufacturing

Equipped with CNC controlled extrusion and coiling machines along with on line spark testers and advanced test labs for its wire plant along with fully automatic Koder machines, using which the wires are sized & crimped and tinned accurately with very high productivity levels. The semi automatic lines consisting of high accuracy sizing machines and crimping machines also produce large quantity of crimped connections every day. The moulded cords produced In-house provide a complete solution to the needs of various appliance and equipment manufacturers. The reliable process design of all the manufacturing lines ensure consistent quality. The high yield assembly lines are equipped to handle harnesses of any size, as small as 30mm to as big as 10 meters.

The wound components lines have 5 multi-spindle machines and automatic tinning machines to deliver quality products made as per customer's design.

Solutions for Various Industries

ITP Electronics through its wide and complete product range has customers from Consumer electronics (TV/Audio-Video), Home appliances(Washing machines, MWO, Food Processors,Water and Air purifiers), Power Conditioning (UPS, Inverter, Stabilizer), Air Conditioning, Telecom, IT, Automotive, Medical and Scientific Instrumentation and Lighting industries.

ITP Team

The highly motivated team at ITP which is currently 250 people strong - is focused on providing more efficient, better quality and cost effective solutions to its customers.



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CIN: U74899DL1995PTC067131



Our Team



High Yield Machinery



Extruder



Assembly Line