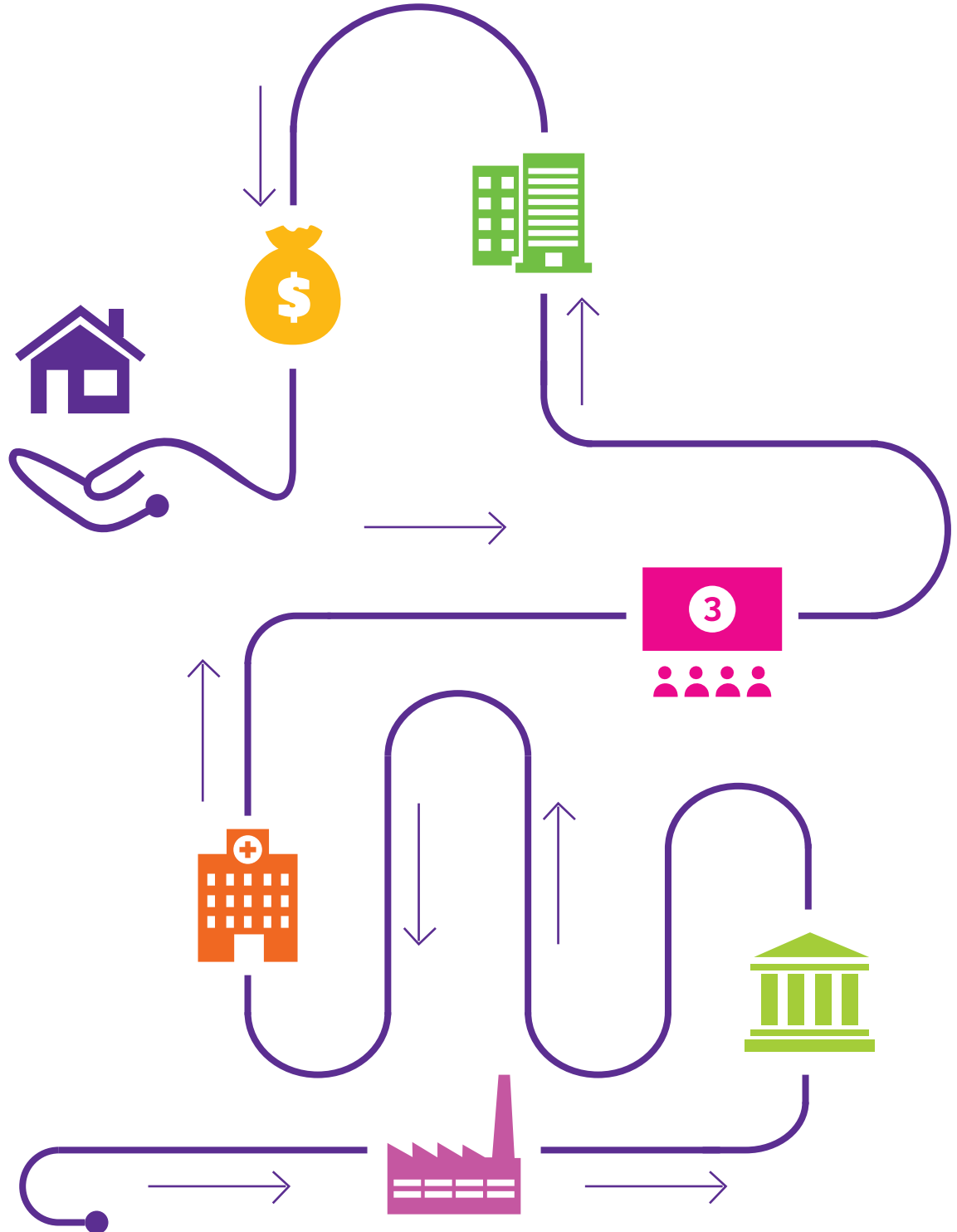




'19 Product Catalogue



WIRES & CABLES
Powering Spaces With Safety

Energy is the essence of life & we understand the importance of harnessing it. With over 50 years of experience, we have always strived to make “Specifically Engineered Wires and cables to ensure that every corner of the world is blessed with brightness.”

Established in the year 1968, Vinay Group, today is considered amongst the synonym of quality and reliability. A diversified technology company, it flaunts a diverse spectrum of products and solutions in Wiring Devices, Wires & Cables, Lighting and Luminaires, Electrical Accessories, Home Security and Home Automation.

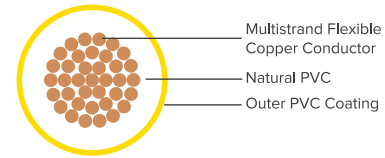
With a close knit team of over 1000 skilled members and a strong trade network across India, Vinay Group has created to markets across different business verticals.



POWERING SPACES WITH SAFETY

GENUINE FR (FIRE RESISTANT) CABLES

UPTO AND INCLUDING 1100V



To ensure that you always stay secure, Vinay Group offers Genuine FR Cables crafted from pure electrolytic tough pitch copper having more than 99.97% purity. Suitable for wiring in all types of residential and commercial infrastructures, where fire and electrical safety is of utmost importance.

Approvals : IS 694 marked, FIA/TAC

Voltage Grade : Upto and including 1100V,

Conductor : Thin strands of electrolytic copper are multi-drawn for uniformity of resistance, dimension and flexibility.

The strands are twisted with high precision to impart circularity of the conductor.

Insulation : Specially formulated heat resistant & flame retardant PVC insulation is used. The FR property retards the propagation of flame without compromising safety.

Insulation Conformity : IS 5831, Type A / Type D + FR I Colours : Red, Green, Blue, Black, Yellow, Grey & White.

Marking : The cables are printed with marking of 'VINAY WIRES GENUINE FR'.

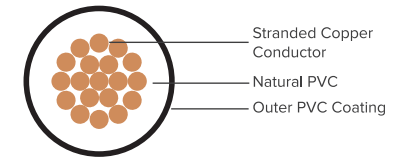
No. / Nom. Diameter of Wire	Nom. Area of Conductor	Nom. Thickness Insulation	Approx. Overall Diameter	Max. Conductor Resistance at 20°C	Current Rating 2 Cables Single Phase AC/DC	Additional Properties	
						Critical Oxygen Index	Temp. Index
No. / mm	Sq.mm	mm	mm	Ohms/km	Amps	%	°C
16/0.20	0.50	0.60	2.20	39.00	4.00	>30	>300
24/0.20	0.75	0.60	2.40	26.00	7.00	>30	>300
14/0.30	1.00	0.70	2.80	18.10	13.00	>30	>300
22/0.30	1.50	0.70	3.10	12.10	16.00	>30	>300
36/0.30	2.50	0.80	3.80	7.41	22.00	>30	>300
56/0.30	4.00	0.80	4.40	4.95	30.00	>30	>300
84/0.30	6.00	0.80	5.00	3.30	38.00	>30	>300
140/0.30	10.00	1.00	6.70	1.91	51.00	>30	>300
224/0.30	16.00	1.00	8.20	1.21	69.00	>30	>300
196/0.40	25.00	1.20	9.70	0.780	91.00	>30	>300
280/0.40	35.00	1.20	11.50	0.554	105.00	>30	>300
396/0.40	50.00	1.40	13.00	0.386	125.00	>30	>300

Packing : 90 mtr. coil is packed in protective cartons. | Project packing of 180 mtr. is also available.



STRANDED FR (FIRE RESISTANT) CABLES

UPTO AND INCLUDING 1100V



Vinay Stranded FR Cables are wound on advanced winding equipment unlike other ordinary cables ensuring higher conductivity. They are suitable for provisional wiring in residential or any commercial infrastructure. for a higher ambient temperature. Cables are suitable for wiring in public places like schools, hospitals, theatres, etc. These are also suitable for fire prone areas and chemical factories.

Approvals : IS 694 marked, FIA/TAC

Voltage : Up to and including 1100V

Conductor : Electrolytic grade annealed copper.

Colours : Red, Green, Blue, Black, Yellow, Grey & White.

Marking : The cables are printed with marking of 'VINAY WIRES STRANDED FR'.

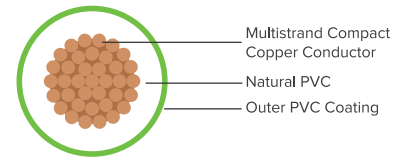
No. / Nom. Diameter of Wire	Nom. Area of Conductor	Nom. Thickness Insulation	Approx. Overall Diameter	Max. Conductor Resistance at 20°C	Current Rating 2 Cables Single Phase AC/DC	Additional Properties	
						Critical Oxygen Index	Temp. Index
No. / mm	Sq.mm	mm	mm	Ohms/km	Amps	%	°C
1/1.13	1.00	0.70	2.70	18.10	13.00	>30	>300
3/0.80	1.50	0.70	3.20	12.10	16.00	>30	>300
3/1.04	2.50	0.80	3.90	7.41	22.00	>30	>300
7/0.85	4.00	0.80	4.40	4.61	30.00	>30	>300
7/1.04	6.00	0.80	5.00	3.08	38.00	>30	>300
7/1.35	10.00	1.00	6.50	1.83	51.00	>30	>300

Packing : Standard packing of 90 mtr. in coil. | Longer length available on request.



UNIBUNCH FR CABLES

UPTO AND INCLUDING 1100V



Currently, one of the few manufacturers of these kind of cables, Unibunch FR is designed to minimize current wastage and maximize current carrying capacity thereby helping one save more on their energy consumption. The cables are suitable for use in conduit and for fixed, protected installation, ideal for high density wiring.

Approvals : IS 694 marked, FIAX / TAC

Voltage Grade : Upto and including 1100V.

Conductor : Thin strands of electrolytic copper are multi-drawn for uniformity of resistance, dimension and flexibility. The drawn strands are uni-laid with high precision and compacted. Thus forming a perfectly circular conductor which enables reduction in overall diameter for space saving in high density wiring.

Conductor Speciality : The strands do not get cut when stripping the insulation. The conductor offers perfect contact at pins, terminals and sockets. Thus, eliminating spot heating and sparking.

Insulation : Specially formulated heat resistant & flame retardant PVC insulation is used. The HR FR property retards the propagation of flame without compromising safety.

Insulation Conformity : IS 5831, Type A / Type D+ FR. | Colours : Red, Green, Blue, Black, Yellow, Grey & White.

Marking : The cables are printed with marking of 'VINAY WIRES UNIBUNCH FR'.

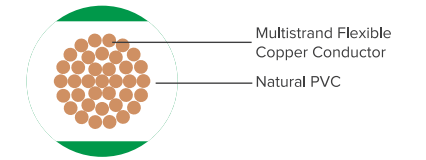
No. / Nom. Diameter of Wire	Nom. Area of Conductor	Nom. Thickness Insulation	Approx. Overall Diameter	Max. Conductor Resistance at 20°C	Current Rating 2 Cables Single Phase AC/DC	Additional Properties	
						Critical Oxygen Index	Temp. Index
No. / mm	Sq.mm	mm	mm	Ohms/km	Amps	%	°C
19/0.26	1.00	0.70	2.75	18.10	14.00	>30	>300
19/0.32	1.50	0.70	3.20	12.10	18.00	>30	>300
37/0.29	2.50	0.80	3.80	7.41	24.00	>30	>300
37/0.37	4.00	0.80	4.40	4.61	32.00	>30	>300

Packing : 90 mtr. coils packed in protective cartons.



FIRE RETARDANT LOW SMOKE HALOGEN CABLES

UPTO AND INCLUDING 1100V



During fires in ordinary cables, PVC material emit a lot of dark smoke. This endangers lives and hampers rescue attempts during emergencies. Understanding the need of the situations, Vinay offers FRLS cables, constructed with materials that emit only low smoke, that prolongs visibility and helps in saving lives. The cables are suitable for use in conduit and for fixed, protected installation particularly suitable for wiring in fire and explosion prone areas, chemical factories, densely wired areas, public buildings, schools, hospitals, commercial complexes, theatres, etc.

Approvals : IS 694 marked, FIA/TAC.

Voltage Grade : Upto and including 1100V.

Conductor : Thin strands of electrolytic copper are multi-drawn for uniformity of resistance, dimension and flexibility.

Insulation : Specially formulated flame retardant low smoke low halogen compound to restrict the spread of flames in fire situation.

Insulation Conformity : IS 5831 Type A / Type D FR-LS 70°C.

Colours : A double strip of either colors from Red, Green, Blue, Black, Yellow or Grey running along the cable length.

Marking : The cables are printed with marking of 'VINAY WIRES FR LSH'.

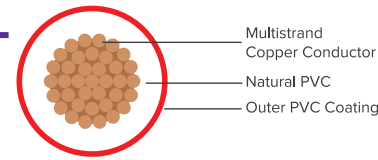
No. / Nom. Diameter of Wire	Nom. Area of Conductor	Nom. Thickness Insulation	Approx. Overall Diameter	Max. Conductor Resistance at 20°C	Current Rating 2 Cables Single Phase AC/DC	Additional Properties		
						Critical Oxygen Index	Smoke Density Rating	HCL Gas Evolution
No. / mm	Sq. mm	mm	mm	Ohms / km	Amps	%	%	Mg / Gm
14/0.30	1.00	0.70	2.80	18.10	13.00	>32	<45	<170
22/0.30	1.50	0.70	3.10	12.10	16.00	>32	<45	<170
36/0.30	2.50	0.80	3.80	7.41	22.00	>32	<45	<170
56/0.30	4.00	0.80	4.40	4.95	30.00	>32	<45	<170
84/0.30	6.00	0.80	5.00	3.30	38.00	>32	<45	<170
140/0.30	10.00	1.00	6.70	1.91	51.00	>32	<45	<170

Packing : 90 mtr. coils packed in protective cartons. | Project coils of 180 mtr. also available.



ZERO HALOGEN FLAME RETARDANT LOW SMOKE CABLES

UPTO AND INCLUDING 1100V



Many flame retardant cables are based on halogen containing chemicals. When burned, they liberate acidic gases which when comes in contact with electrical or electronic components, can cause expensive corrosion damage. Toxic fumes emitted during a fire are always a concern as it may hamper the safe escape of people in an emergency, or incapacitate personnel engaged in vital operations. Vinay ZHFRLS cables are designed not to release acidic gases or toxic fumes aiding fire fighting. The victims trapped in fire do not suffocate and this facilitate fire fighting operations. The cables are suitable for wiring in all installations where fire safety is of utmost importance like schools, theaters, commercial complexes, apartments, high rise buildings, laboratories, etc.

Voltage Grade : Up to and including 1100 V.

Conductor : Thin strands of electrolytic copper are multi-drawn for uniformity of resistance, dimension and flexibility.

The drawn strands are uni-laid with high precision and compacted. Thus forming a perfectly circular conductor which enables reduction in overall diameter for space saving in high density wiring.

Conductor Speciality : The strands do not get cut when stripping the insulation. The conductor offers perfect contact at pins, terminals and sockets. Thus, eliminating spot heating and sparking.

Insulation : Specially formulated grade of Zero Halogen Flame Retardant Low Smoke (ZHFRLS) compound is used.

The insulation does not burn readily. It does not melt and drip, smoke is negligible, transparent, non-toxic. Unlike PVC, the smoke emitted is non-corrosive.

Insulation Conformity : IEC 60332-1 & 3, IEC 60754-1 & 2. | Colours : Red, Green, Blue, Black, Yellow, Grey & White.

Marking : The cables are printed with marking of 'VINAY WIRES ZHFRLS'.

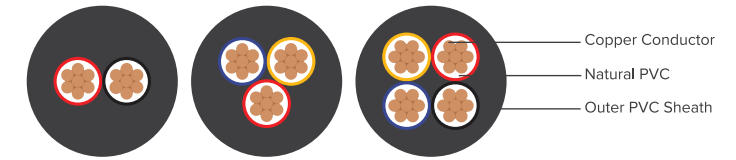
No. / Nom. Diameter of Wire	Nom. Area of Conductor	Nom. Thickness of Insulation	Approx. Overall Diameter	Max. Conductor Resistance at 20°C	Current Rating 2 Cables Single Phase AC/DC	Additional Properties		
						Critical Oxygen Index	Smoke Density Rating	HCL Gas Evolution
No. / mm	Sq. mm	mm	mm	Ohms / km	Amps	%	%	Mg / Gm
14/0.30	1.00	0.70	2.80	18.10	13.00	>32	<15	0.00
22/0.30	1.50	0.70	3.10	12.10	16.00	>32	<15	0.00
36/0.30	2.50	0.80	3.80	7.41	22.00	>32	<15	0.00
56/0.30	4.00	0.80	4.40	4.95	30.00	>32	<15	0.00
84/0.30	6.00	0.80	5.00	3.30	38.00	>32	<15	0.00
140/0.30	10.00	1.00	6.70	1.91	51.00	>32	<15	0.00

Packing : 90 mtr. coils packed in protective cartons. | Project packing of 180 mtr. also available.



ROUND MULTI-CORE FLEXIBLE CABLES

UPTO AND INCLUDING 1100V



Vinay Round Multi Core Flexible Cables are produced from pure electrolytic pitch copper having more than 99.97% purity. PVC and FR PVC 70°C cables suitable for wiring in residential and commercial infrastructure. HR PVC 85°C cables are suitable for wiring in residential and commercial infrastructure for a higher ambient temperature. Cables are suitable for wiring in public places like schools, hospitals, theatres, etc.

Approvals : IS 694 marked, FIA/TAC

Conductor : Electrolytic grade annealed copper

Insulation : PVC Type A / Type D

Core Colour : (a) Red, Black (for 2 core), (b) Red, Yellow, Blue (for 3 core), (c) Red, Yellow, Blue, Black (for 4 core)

Sheath : PVC Type ST1

Sheath Colour : Black

Marking : The cables are printed with marking of 'VINAY CABLES (SIZE) Sq. mm 1100V'.

PVC 70°C : IS 694, IS 8130 Class 2 (1.5 & 2.5 Sq. mm), for others class 5, IS 5831 Type A insulation & ST-1 sheath.

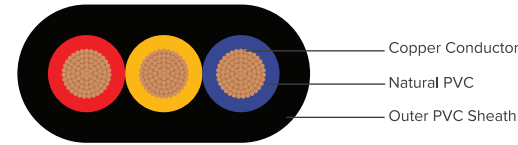
Nom. Area of Conductor	Size of Conductor	Thickness of Insulation	Thickness of Sheath (ts)			Overall Dimension. Max.			Max. Cond. Resist. at 20°C	Current Rating
			2 Core	3 Core	4 Core	2 Core	3 Core	4 Core		
mm ²	mm	mm	mm	mm	mm	mm	mm	mm	Ohms / km.	Amps.
0.50	16 / 0.20	0.60	0.90	0.90	0.90	6.90	7.30	8.00	39.00	4.00
0.75	24 / 0.20	0.60	0.90	0.90	0.90	7.30	7.70	8.40	26.00	7.00
1.00	14 / 0.30	0.60	0.90	0.90	1.00	7.60	8.10	8.80	18.10	13.00
1.50	22 / 0.30	0.60	0.90	0.90	1.00	8.90	9.40	10.40	12.10	16.00
2.50	36 / 0.30	0.70	1.00	1.00	1.00	10.30	10.90	12.00	7.41	22.00
4.00	56 / 0.30	0.80	1.00	1.00	1.00	11.60	12.40	13.60	4.95	30.00
6.00	84 / 0.30	0.80	1.10	1.20	1.20	13.00	13.80	15.47	3.30	38.00

Packing : Standard packing of 100 mtr. in coils. | Longer length available on request.



FLAT SUBMERSIBLE FLEXIBLE CABLES

UPTO AND INCLUDING 1100V



Vinay Flat Submersible Cables are specially manufactured keeping in mind the severe, tough and difficult conditions in which they are used. They are manufactured with rigid manufacturing controls to sustain complete immersion in water and protection against rain water. The conductors are uniformly drawn from high purity electrolytic grade copper on high precision drawing machines with superb flexibility. Compactly bunched to offer uniform resistance across all conductors extruded on dual screw extrusion machine with inline monitoring of cable diameter and high voltage spark testing. These cables are mainly used in pump connection. Though they are mainly used to supply power to pumps, they are also used in industrial applications.

Approvals : IS 694 marked, FIA/TAC.

Conductor : Electrolytic grade annealed plain copper to EN 60228, uniformly bunched to form a circular shape

Insulation : PVC Type A / Type D | Core Colours : Red, Yellow (centre core), Blue

Sheath : PVC Type ST1 IEC 60502-1, IS 5831 with excellent water resistant properties | Sheath Colour : Black

Marking : The cables are printed with marking of 'VINAY SUBMERSIBLE CABLE'.

Variants Available : PVC : Type A PVC Insulation and PVC ST1 Sheath.

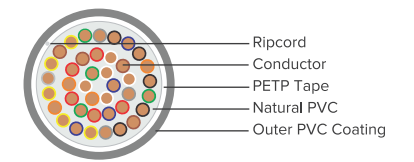
Conductor		Insulation			Sheath	
No. / Nom. Diameter of Wire	Nom. Area of Conductor	Nom. Thickness Insulation	Nom. Core Diameter	Nominal Thickness	Size (WxT) 2 Core (Max.)	Size (WxT) 3 Core (Max.)
No. / mm	Sq. mm	mm	mm	mm	mm	mm
14 / 0.30	1.00	0.60	2.70	0.90	8.0 x 5.4	11.0 x 5.4
22 / 0.30	1.50	0.60	3.10	0.90	8.6 x 5.6	12.0 x 5.6
36 / 0.30	2.50	0.70	3.80	1.00	10.5 x 6.6	13.0 x 6.2
56 / 0.30	4.00	0.80	4.40	1.00	12.0 x 7.4	15.3 x 7.1
84 / 0.30	6.00	0.80	5.00	1.10	13.0 x 8.0	19.2 x 8.4

Packing : Standard packing of 100 mtr. in coils. | Longer length available on request.



TELEPHONE CABLES

UPTO AND INCLUDING 1100V



Vinay telephone Cables are designed for improved voice transmission, quality-giving clarity and eliminating cross-talk. These cables are recommended for switchboard and telephone wiring in residential and commercial infrastructure, for transmission of analog and digital signals, wiring in faxes, modems, alarm enunciators, data recording/acquisition systems and various communication devices.

Specifications : ITD-S/WS 113C.

Conductor : The central conductor of Telephone cables (0.40 mm) is made of solid electrolytic grade of Bare Copper.

The central conductor of Telephone cables (0.50 mm) is made of solid electrolytic grade of Tin Copper.

Insulation : Premium quality grade polyethylene used on a special extruder. This serves for low attenuation and minimised cross talk.

Twisted Pairs : The cores are carefully twisted with suitable lays and bunched together.

Marking : The cables are printed with marking of 'VINAY (PAIR) 0.50 mm TELEPHONE CABLE'.

Code No.	No. of Pairs Nos.	Approx. Outer mm	C. R. at 20°C Ohms / Km	Mutual Capacitance nF / Km. Max.	Capacitance Unbalance pF/100m. Max	
					Pair to Pair	Pair to Ground
T0140 *T0150	1	3.00	137.30 90.00	50	250	300
T0240 *T0250	2	3.50	137.30 90.00	50	250	300
T0340 *T0350	3	4.20	137.30 90.00	50	250	300
T0440 *T0450	4	5.30	137.30 90.00	50	250	300
T0540 *T0550	5	6.00	137.30 90.00	50	250	300
T1040 *T1050	10	8.50	137.30 90.00	50	250	300
T2040 *T2050	20	12.50	137.30 90.00	50	250	300

Note : 0.40 mm Annealed Bare Copper and *0.50 mm Annealed Tin Copper

Packing : 0.40 colour of outer sheath : Orange available in 90 mtr. length in polybag.

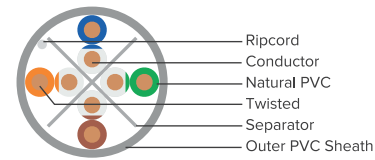
0.50 colour of outer sheath : Grey available in 100 mtr. length in polybag.

Higher lengths available on special request.



LAN CABLES

UPTO AND INCLUDING 1100V



Vinay Cat 6/ CAT 5e UTP cables are high performance cables used increasingly for modern computer network systems. They are made for extended bandwidth for high speed voice / video data. These cables form the backbone of modern data transmission and are suitable for industries, residential and commercial infrastructure.

Performance : LAN CABLES enhanced CAT 6 / CAT 5e UTP capable of handling 100 + Mbps data rates. LAN CABLES CAT 5e UTP is independently verified to exceed the requirements of EN 50173, ISO/IEC 11801 and TIA/EIA 568-B-1 /B-2.

Marking : The cables are printed with marking of 'VINAY WIRES LAN'.

CAT 5e UTP LAN Cables

Physical Properties		Electrical Properties	
Conductor	Solid Bare Copper	DC Resistance @ 20°C (Max.)	9.38 Ohm/100 M
Nom. Conductor Diameter	24 AWG (0.50 mm)	Capacitance Unbalance Pair to Ground (Max.)	330 pF/100 M
Insulation	Special Grade PE	Mutual Capacitance (Max.)	5.60 nF/100 M
Colour Code		Characteristics Impedance	100 +/-15 ohm
Pair 1	White-Blue	Nominal Velocity of Propagation	66%
Pair 2	White-Orange	Delay Skew (Max.)	45 ns
Pair 3	White-Green	Propagation Delay @ 20°C, MHz	538 ns / 100 M
Pair 4	White-Brown		
Outer Jacket	PVC		
Nom. Overall Diameter	5.80 mm		
Jacket Colour	Grey		

CAT 6 UTP LAN Cables

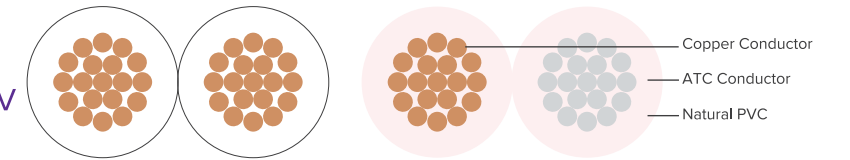
Physical Properties		Electrical Properties	
Conductor	Solid Bare Copper	DC Resistance @ 20°C (Max.)	6.53 Ohm/100 M
Nom. Conductor Diameter	23 AWG (0.58 mm)	Capacitance Unbalance Pair to Ground (Max.)	330 pF/100 M
Insulation	Special Grade PE	Mutual Capacitance (Max.)	5.60 nF/100 M
Pair Separator	Special Grade PE	Characteristics Impedance	100 +/-15 ohm
Colour Code		Nominal Velocity of Propagation	66%
Pair 1	White-Blue	Delay Skew (Max.)	45 ns
Pair 2	White-Orange	Propagation Delay @ 20°C, MHz	550 ns / 100 M
Pair 3	White-Green	Cable Attenuation, 100 MHz	20.5 db / 100 M
Pair 4	White-Brown	Return Loss (>100m)	23 db
Outer Jacket	PVC		
Nom. Overall Diameter	6.0 mm		
Jacket Colour	Grey		

Packing : Available in easy pull box of 100 mtr. and 305 mtr. for CAT 5e and CAT 6 is available only in 305 mtr. pack.



SPEAKER WIRES

UPTO AND INCLUDING 1100V



Vinay Wires offer speaker cables with high quality oxygen free copper conductor are widely used for various audio applications. They are highly recommended for use in connecting speakers, public address system for clear and distortion free voice with low dB loss.

Cable Construction : The cables are manufactured with bright annealed plain flexible electrolytic grade copper conductor, bunched compactly, insulated with specially formulated PVC compound. Each core is uniquely designed for easy identification. In order to offer uniform capacitance throughout length the distance between the two conductors is maintained uniformly.

Twin Core Speaker Wire (Transparent)

Size	Thickness of Insulation		Overall Diameter (WxT)		
	Min. mm	Avg. mm	Nom. mm	Min. mm	Max. mm
16/0.191 (0.200) 16/36 SWG (CU+ATC)	0.71	0.90	5.9 x 2.8	6.0 x 3.0	6.1 x 3.2
24/0.191 (0.200) 24/36 SWG (CU+ATC)	0.71	0.90	6.5 x 3.2	6.4 x 3.1	6.6 x 3.3
40/0.191 (0.200) 40/36 SWG (CU+ATC)	0.71	0.90	7.0 x 3.6	6.9 x 3.5	7.1 x 3.7

Twin Parallel Speaker Wire (White)

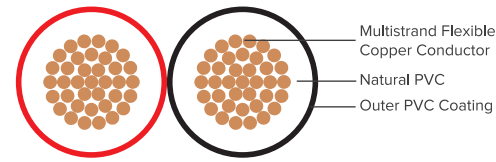
Size	Thickness of Insulation		Overall Diameter (WxT)		
	Min. mm	Avg. mm	Nom. mm	Min. mm	Max. mm
16/0.191 (0.200) 16/36 SWG	0.44	0.60	5.9 x 2.8	6.0 x 3.0	6.1 x 3.2
24/0.191 (0.200) 24/36 SWG	0.44	0.60	6.5 x 3.2	6.4 x 3.1	6.6 x 3.3

Packing : The delivery length is available in 100 mtr. coils.



TWIN TWISTED FLEXIBLE CABLE

UPTO AND INCLUDING 1100V



Provisional Wires are commonly used for temporary connections to fulfill domestic & commercial single point needs. These perfectly twisted wires with high tensile strength are shock resistant and thermal proof ensuring safety in situations when the need for temporary connections arise.

Range : 16 / 36 SWG, 24/36 SWG

Conductor : Multiwire Copper to resist flexural breakages

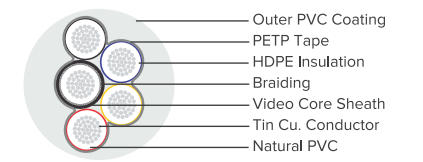
Insulation : FR PVC. Each wire is individually insulated for maximum insulation barrier between the conductors.

Size	Thickness of Insulation		Overall Diameter (WxT)			Current Rating 20°C Ohms/km	Printing Visual
	Min. mm	Avg. mm	Nom. mm	Min. mm	Max. mm		
16/0.191 (0.200) 16/36 SWG	0.44	0.60	4.40	4.20	5.20	39.00	OK
24/0.191 (0.200) 24/36 SWG	0.44	0.60	4.80	4.60	5.60	26.00	OK



CCTV CABLES

UPTO AND INCLUDING 1100V



Vinay CCTV Cables are designed to optimize the quality of video signals. The multi stranded construction offers better flexibility and reduced bending results. These cables are specifically designed to transmit complete video frequency with minimum distortion or attenuation for security and surveillance. This cable is offered in two variants viz., 4+1 and 3+1 CCTV Camera cable.

Properties : CCTV cables are designed to optimize the quality of video signals. The dense tin coated copper screen ensures complete elimination of EMI/RFI from video signals and also provides reduced DC resistance ground path. The multi stranded construction offers better flexibility and reduced bending radius.

Cable Construction : Screened Core for Video signal

Conductor : The central conductor is made of fine wires tin coated electrolytic grade copper.

Insulation : The insulation provided over the conductor is of HDPE with high dielectric strength and low capacitance.

Screen : Annealed tin coated copper 85% coverage approx. | **Sheath :** White.

Power Cores :

Conductor : The central conductor is made of fine wires tin coated electrolytic grade copper.

Insulation : The insulation provided over the conductor is of PVC with high dielectric strength.

Marking : The cables are printed with marking of 'VINAY 14/40 SWG (TYPE) CCTV WIRE'.

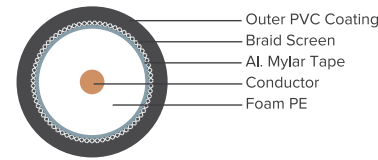
Separator : PETP tape. | **Sheath :** PVC. | **Cable Colour :** White, Black with UV resistance to ASTM G 154.

Cable Type	Cable Size (Sq. mm)	Nominal Cable Diameter (mm)	Power Core Color
CCTV Cable 4+1	4C + 1C x 0.25	6.8	RD, YL, BK, GN
CCTV Cable 3+1	3C + 1C x 0.25	6.8	RD, BK, GN



CO-AXIAL CABLES

UPTO AND INCLUDING 1100V



Vinay Co-axial cables ensures better signal transmissions and are a preferred choice in the cable television industry. The specially formulated jacket is ultra violet and moisture resistant in nature, for robust performance and long life. The entire passes through the sophisticated testing facility. These high quality cables provide notch free attenuation values over wide range of frequencies.

Technical Data :-

Conductor : The central conductor is made of solid electrolytic grade annealed plain copper conductor, which has distinct advantages over traditional copper conductor.

Insulation : The insulation provided over the conductor is of foam PE which acts as a dielectric.

Screen : Aluminium mylar tape is provided over the insulated conductor to shield the conductor and ensure disturbance free transmission of signals.

Braiding : The braiding is generally provided with 60% coverage of ATC (Annealed Tinned Copper) / Al alloy.

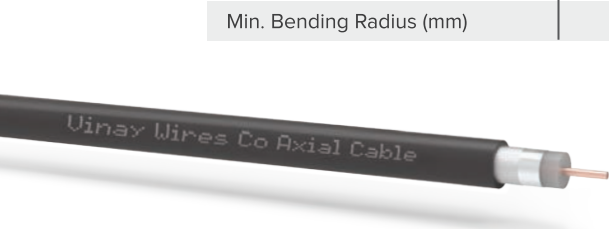
Marking : The cables are printed with marking of 'VINAY WIRES CO-AXIAL'.

Physical Parameters

Parameters	Type of Cable			
	RG-6	RG-59	RG-11	RG-6 (CCS)
Inner Conductor	Annealed Bare Copper	Annealed Bare Copper	Annealed Bare Copper	Copper Coated Steel
Nom. Dia of Conductor (mm)	1.02	0.8	1.63	1.02
Insulation Type	PE Foam	PE Foam	PE Foam	PE Foam
Nom. Dia of Insulation (mm)	4.55	3.65	7.10	4.55
First Shield	Bonded Al Tape	Bonded Al Tape	Bonded Al Tape	Bonded Al Tape
Second Shield	Aluminium Braiding	Aluminium Braiding	Aluminium Braiding	Aluminium Braiding
Braiding Coverage (%)	60	60	60	60
No. of Braiding	64	64	96	64
Dia. of Braiding (mm)	0.15	0.15	0.15	0.15
Dia. Over Braiding (mm)	5.20	4.24	7.70	5.20
Outer Jacket	PVC (Black)	PVC (Black)	PVC (Black)	PVC (Black)
No. Overall Dia. (mm)	7.0	6.0	9.0	7.0

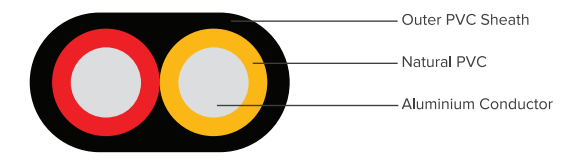
Electrical Parameters

Parameters	Type of Cable			
	RG-6	RG-59	RG-11	RG-6 (CCS)
Max. Conductor Resistance at 20°C	2.10	3.70	0.80	12.10
Nom. Capacitance (Pf/m)	53	53	53	53
Dielectric Strength (KV)	>1	>1	>1	>1
Characteristic Impedance (Ohm)	75	75	75	75
Velocity of Propagation (%)	85	85	85	85
Min. Bending Radius (mm)	65	60	75	60



TWIN CORE FLAT ALUMINIUM CABLES

UPTO AND INCLUDING 1100V



Vinay Twin Core Flat Cables are highly recommended to provide electrical connection from the main line to residential buildings and complex. These high quality Aluminium Service wires are suitable for operation upto & including 1100 volts. Highly robust tough PVC is used for sheathing that is resistant to adverse weather conditions.

Range : 1.50 Sq. mm to 10.00 Sq. mm in Aluminium

Conductor : Highly Tensile Solid Aluminium conductor as per Grad H2/H4 of IS : 8130/2013

Insulation : PVC Type A as per IS : 5831/1984

Outer Sheath : PVC Type ST1 as per IS: 5831/1984

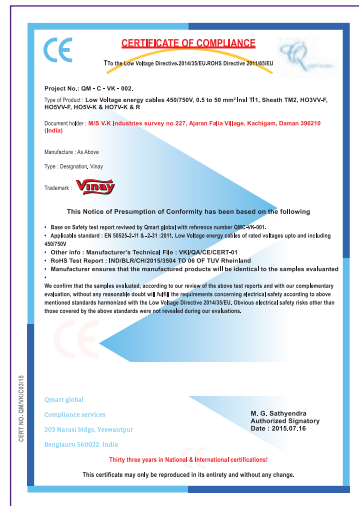
PVC Insulated and Sheathed Twin Flat Aluminium Cables Upto 1100V Conforming To Is: 694 -2010

Conductor		PVC Insulation		PVC Sheath			Current Ratings at 40°C	Max. D/C Resistance at 20°C
Nom. Area of Conductor	Conductor Constructon	Nom. Thickness Insulation	Approx Core Diameter	Nominal Thickness	Height	Width		
Sq. mm	No. / mm	mm	mm	mm	mm	mm	Amps	Ohms/km
1.5	1/1.38	0.70	2.88	0.90	5.6	8.6	13.0	18.10
2.5	1/1.78	0.70	3.28	1.00	6.6	10.5	16.0	12.10
4.00	1/2.25	0.8	3.8	1.0	7.2	11.5	23.0	7.41
6.00	1/2.76	0.8	4.5	1.1	8.0	13.0	30.0	4.61
10.00	1/3.57	1.0	5.5	1.2	9.6	16.0	40.0	3.08





Nature is our first inspiration and in our bid to ensure the least effect on our environment, we take utmost care in manufacturing products that are Lead and Cadmium free in adherence to the safety regulation and other safety suitability requirements. At Vinay, the process of designing, manufacturing and supplying wires and cables confirm to very stringent mechanical and electrical parameters.



Spread across half a million sq. feet our high end manufacturing plant located at Daman employs latest infrastructure and world class technology for manufacturing and testing the products. We ensure that the materials used in manufacturing are of the best quality and adhere to all domestic and international standards to deliver the best products at all times.

Vinay Wires & Cables Unit has been awarded the CE, ISO 9001:2008 and BIS certification, that re-enforces the world class quality in addition to other approvals like FIA, TAC, NTH, CPRI, ERDA and RoHS.



With years of undeterred commitment to improve the quality of lifestyles, Vinay Electricals humbly marks its 50th year in 2018. Writing a promising course of a future in a world without boundaries, we constantly aspire to leverage innovative technologies and new ideas. Endeavouring with relentless passion and commitment, Vinay Electricals is consistently excelling to deliver breakthrough products and services to make communities future ready. Intertwined with stories of passion, pioneering and excellence, the impressive growth has been a result of innovative thoughts, futuristic approaches, dedicated workforce and loyal customers. Today, as we reach another milestone in our journey, you can be assured that we will continue to offer you products that match world standards, both in quality and design.

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