SOME MEMORIES LAST FOREVER.

JUST LIKE V-GUARD WIRES.



V-GUARD WIRES. LONG LASTING WIRES.





V-Guard: A long-lasting legacy.

For over four decades V-Guard lived up to the reputation of making reliable products that were designed to work efficiently and last a lifetime. And now we are taking our next quantum leap. Harnessing the learnings, insights and experiences of four decades, it will be our endeavour to understand human lives and their relationship with the tools and appliances that they use. And then to evolve a seamless experience with thoughtfully engineered products in our quest to enrich consumer lives. V-Guard has emerged as a prestigious manufacturer for availing an array of Wires and Cables befitting the demands of modern day technology. Wires and Cables from V-Guard are known for their cutting-edge product features, efficient performance and long-lasting quality.

Certifications & Accreditations

Certified by



Certified by



Tested at



CPRI



ERDA

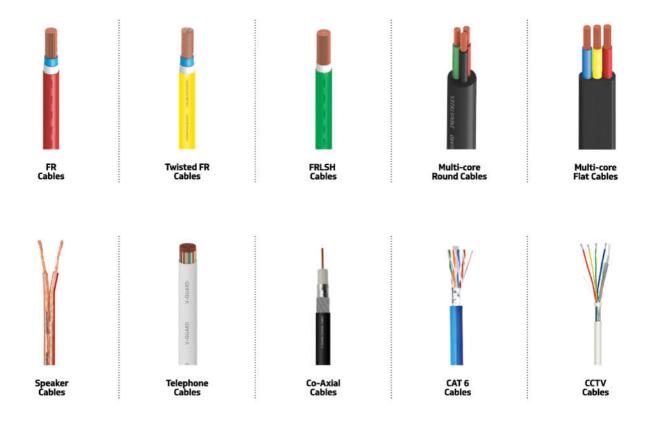
Accreditation



International Research Institute for Manufacturing™ (IRIM)
NATIONAL AWARD FOR
MANUFACTURING COMPETITIVENESS 2015-16



Range available



Major Approvals & Supplied Projects

DGS&D • Military Engineer Services • Airport Authority of India • Power Grid Corporation of India
 Tata Steel • IVRCL Infrastructures & Projects Ltd. • Odisha Power Transmission Corporation Limited
 Nuclear Power Corporation of India • Cochin International Airport • Kochi Metro • HCL Technologies
 Apollo Tyres • Siemens • Karnataka Power Corporation • Bharat Heavy Electricals Limited
 BEML Limited • Bharat Petroleum • Kerala State Electricity Board • DLF • Sobha • Puravankara
 Asset homes • Hoysala Projects Pvt. Ltd. • Tulsi Developers

Wires & Cables Division

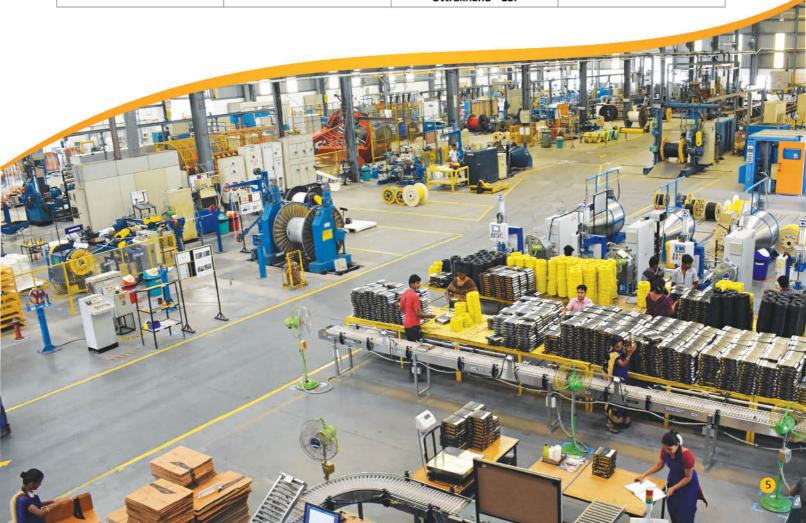
V-Guard wires and cables manufacturing facilities are located at Coimbatore in Tamil Nadu and Kashipur in Uttarakhand. Both factories put together have the capacity to produce more than 130 Lakh Coils (in terms of 90 m) and 30,000 Km of Multicore Round & Flat Cables per annum. The factories boast of state-of- the-art technology, both indigenous and imported, with RBD, Wire drawing machines and Bunchers supplied by Niehoff and Triple Layer Insulating Lines supplied by Nextrom, Johann Leimbach, etc.





3 LAYERED WIRES 3 TIMES PROTECTION

Description	Wires Factory, Coimbatore	Wires Factory, Kashipur	PVC Compounding Unit
PLANT ADDRESS	V-Guard Industries Ltd., (Cable Division), K.G.Chavadi, Coimbatore-05.	V-Guard Industries Ltd., 6th Km Stone, Moradabad Road, Village Basai, Khasra No. 86, Kashipur, Udham Singh Nagar, Uttrakhand - 13.	V-Guard Industries Ltd., K. G. Chavadi, Coimbatore-05.





PVC Compounding Division

V-Guard Wires & Cables Division has also implemented a backward integration project for producing its own PVC Grades for House Wiring Cables and Multicore Round & Flat Cables. The PVC Compounding Unit is a fully automated state-of-the-art modern plant established with focus on the best manufacturing practices right from the material handling to the finished goods packing for obtaining the best quality of the product consistently in a safe environment.

All raw materials used are of high quality from global and indigenous sources which contributes to the best quality of the Wires & Cables.

The PVC Compounding plant boasts of machinery with the world renowned extrusion technology from Germany and a full-fledged dedicated QA Lab for testing the incoming raw materials and the finished goods.

The present capacity of the plant is 400MT per month and next expansion project would be 500MT per month.

Features

High flame retardancy Triple Layer Insulation for better safety 99.97% pure copper High conductivity of copper High thermal stability Smooth surface and hence increased easiness to be pulled easily in pipes during installation Bunched conductor High discoloration resistance capacity of copper conductors High ageing property of PVC insulation Better flexibility for easy wiring 90 meters assured seal



Superio FR Series



V-Guard Superio (Flame Retardant) cable can withstand continuous heat up to 70°C.

Application

The cables can be used in Domestic, Residential and Industrial Infrastructure projects.

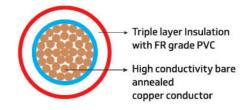
Features

- Anti Termite
- Moisture Guard
- Anti Ageing
- Superior insulation resistance

Technical Details

- Product reference standard: IS 694:2010
- Voltage Grade: Up to and including 1100 V
- Size: 0.5 to 120 Sq.mm in single core
- Conductor: Thin strands of multi drawn Electrolytic Copper
- PVC insulation: Type A/D FR 70°C as per IS 5831
- · Colours: Red, Yellow, Blue, Black, Green, Grey & White
- Marking: The cables are printed with marking of 'FR' (FR indicates Flame Retardant)
- Packing: 90 m Coil is packed in protective cartons up to size 4 Sq.mm and other sizes/length in polycover





3	Technical Sp	ecifications	For Single Core,	PVC Insulated	d Unsheathed Cables	
Conductor	Number &	Resistance			Current carrying capacity	Two cables, single phase
nominal area in Sq.mm	nominal diameter of wire in No./mm	(Maximum) per km. @ 20°C in Ohm	Approximate over all diameter in mm	Nominal thickness of insulation in mm	In conduit/trunking in Ampere	Unenclosed-clipped directly to a surface or on cable tray in Ampere
0.5	16/0.2**	39.0	2.2	0.6	3	4
0.75	24/0.2**	26.0	2.3	0.6	6	7
1.0	14/0.3*	18.1	2.7	0.7	11	12
1.5	22/0.3*	12.1	3.0	0.7	13	16
2.5	36/0.3*	7.41	3.6	0.8	18	22
4.0	56/0.3**	4.95	4.0	8.0	24	29
6.0	84/0.3**	3.3	4.6	0.8	31	37
10.0	80/0.4**	1.91	6.1	1.0	42	51
16.0	126/0.4**	1.21	7.2	1.0	57	68
25.0	196/0.4**	0.78	9.1	1.2	71	86

^{*}As per conductor class 2 of IS:8130 **As per conductor class 5 of IS:8130. For BIS certification details see website "www.bis.org.in"

Classo FR Series



V-Guard Classo (Flame Retardant) cable can withstand continuous heat up to 70°C.

Application

The cables can be used in Domestic, Residential and Industrial Infrastructure projects.

Features

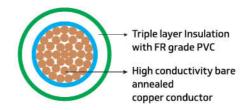
- Moisture Guard
- Highly Flexible

Technical Details

- Product reference standard: IS 694:2010
- Voltage Grade: Up to and including 1100 V
- · Size: 0.75 to 4 Sq.mm in single core
- · Conductor: Thin strands of multi drawn Electrolytic Copper
- PVC insulation: Type A/D FR 70°C as per IS 5831
- · Colours: Red, Yellow, Blue, Black, Green, Grey & White
- Marking: The cables are printed with marking of 'FR' (FR indicates Flame Retardant)
- Packing: 90 m coil is packed in protective cartons up to size 4 Sq.mm. Higher length cables are also available in polycover



Cable Cross Section View



	Techn	ical Specifica	ations For Single	Core, PVC Ins	sulated Unsheathed Ca	bles
Conductor	Number &	Resistance	10.00		Current carrying capacity	Two cables, single phase
nominal area in Sq.mm	nominal diameter of wire in No./mm	(Maximum) per km. @ 20°C in Ohm	Approximate over all diameter in mm	Nominal thickness of insulation in mm	In conduit/trunking in Ampere	Unenclosed-clipped directly to a surface or on cable tray in Ampere
0.75	24/0.2	26.0	2.3	0.6	6	7
1.0	32/0.2	19.5	2.5	0.6	11	12
1.5	30/.25	13.3	2.8	0.6	13	16
2.5	48/.25	7.98	3.4	0.7	18	22
4.0	56/0.3	4.95	4.0	8.0	24	29

As per conductor class 5 of IS:8130. For BIS certification details see website "www.bis.org.in".



Twisted FR Series



V-Guard TFR (Twisted conductor Flame Retardant) cable can withstand heat upto 70°C.

Application

The cables can be used in Domestic, Residential & Industrial Infrastructure projects.

Features

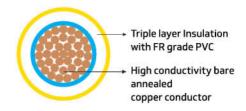
- · No sparks due to perfection in conductor shape and contact
- No loose strands in conductor
- · No loss of copper strands during stripping
- Easy Installation

Technical Details

- Product reference standard: IS 694:2010
- Voltage Grade: Up to and including 1100 V
- · Size: 1.0 to 4.0 Sq.mm in single core
- · Conductor: Highly Twisted & Compacted Thin strands Copper Conductor
- PVC insulation: Type A/D FR 70°C as per IS 5831
- · Colours: Red, Yellow, Blue, Black & Green
- Marking: The cables are printed with marking of 'Twisted FR' (FR indicates Flame Retardant)
- · Packing: 90 m coil is packed in protective cartons

VALUED VA

Cable Cross Section View



Te	chnical Specifica	tions of Single	Core, Twisted	FR PVC Insulated	Unsheathed	Cables 1100 Volts
	Number &	Resistance	Approximate	Nominal	Current carrying	g capacity Two cables, single phase
Conductor nominal area in Sq.mm	nominal diameter of wire in No./mm	(Maximum) per km. @ 20°C in Ohm	over all diameter in mm	thickness of insulation in mm	In conduit/ trunking in Ampere	Unenclosed-clipped directly to a surface or on cable tray in Ampere
1.0	37/0.18	19.50	2.60	0.7	11	12
1.5	37/0.22	13.30	3.00	0.7	13	16
2.5	61/0.22	7.98	3.60	0.8	18	22
4.0	61/0.28	4.95	4.00	0.8	24	29

As per conductor class 5 of IS:8130. For BIS certification details see website " www.bis.org.in". FR indicates Flame Retardant

FRLSH Cable (Flame Retardant Low Smoke & Low Halogen)



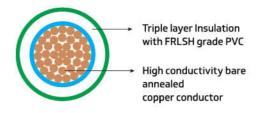
V-Guard FRLSH cables are made from specially formulated PVC polymers that restrict the toxic gases and smoke and therefore are safe, reliable, flame retardant and a non-toxic alternative.

Application

Cables for wiring in fire and explosion prone areas, schools, hospitals, malls, commercial complexes, theaters, airports, hotels, residential apartments, densely populated areas and public buildings.

Technical Details

- Cable design reference standard: IS 694:2010
- Voltage Grade: Up to and including 1100 V
- Size: 0.5 to 120 Sq.mm in single core
- · Conductor: Thin strands of multi-drawn Electrolytic Copper
- PVC insulation: Type A/D FRLSH 70°C as per IS 5831
- · Colours: Red, Yellow, Blue, Black, Green, Grey & White
- Marking: The cables are printed with marking of 'FRLSH' (FRLSH indicates Flame Retardant Low Smoke & Low Halogen)
- Packing: Packing of 180 meters coils available



Technic	al Specifications	of Single Core,	FRLSH PVC Insu	lated Unsheath	ed Cables 11	00 Volts
						rrying capacity s, single phase
Conductor nominal area in Sq.mm	Number & nominal diameter of wire in No./mm	Resistance (Maximum) per km. @ 20°C in Ohm	Approximate over all diameter in mm	Nominal thickness of insulation in mm	In conduit/ trunking in Ampere	Unenclosed- clipped directly to a surface or on cable tray in Ampere
0.50	16/0.2	39.0	2.20	0.6	3	4
0.75	24/0.2	26.0	2.30	0.6	6	7:
1.0	32/0.2	19.50	2.50	0.6	11	12
1.5	30/0.25	13.30	2.70	0.6	13	16
2.5	48/0.25	7.98	3.40	0.7	18	22
4.0	56/0.3	4.95	4.00	0.8	24	29
6.0	84/0.3	3.30	4.60	0.8	31	37
10.0	80/0.4	1.91	6.10	1.0	42	51
16.0	126/0.4	1.21	7.20	1.0	57	68
25.0	196/0.4	0.780	9.10	1.2	71	86
35.0	276/0.4	0.554	10.30	1.2	91	110
50.0	396/0.4	0.386	12.30	1.4	120	145
70.0	360/0.5	0.272	14.30	1.4	165	200
95.0	475/0.5	0.206	16.60	1.6	200	235
120.0	608/0.5	0.161	18.40	1.6	225	270
1	Ī	As per conduct	tor class 5 of IS:8	3130-1984		



Multi Core Round Cables



V-Guard Multicore cables are available in variant of FR & FRLSH categories.

Application

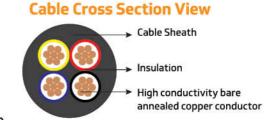
Flexible & Cord Cables for Residential and Commercial Infrastructure projects.

Features

- · Better finish and strength for heavy duty applications
- · Every "meter length" is marked

Technical Details

- Product reference standard: IS 694:2010
- Voltage Grade: Up to and including 1100 V
- Size: 2, 3 & 4 cores available in sizes from 0.5 to 16 Sq.mm
- Conductor: Electrolytic grade annealed copper class 5 as per IS 8130
- Insulation: PVC with 70° C rating as per IS 5831
- Sheath: PVC with 70°C rating as per IS 5831
- · Sheath Colour: Black, Ivory, White & Grey
- · Packing: Standard packing of 100 m in coils. Longer length available on request



Conductor nominal area	Number & nominal diameter of wire in No./mm	Resistance (Maximum) per km. @ 20°C in Ohm	Nominal thickness	kness			Approxima er all dian in mm	neter	Ampere (Une directly to a	ying capacity in nclosed - clipped a surface or on e tray)	
in Sq.mm			of insulation in mm	2 Core	3 Core	4 Core	2 Core	3 Core	4 Core	2 Core & 3 Core Cables for Single Phase AC DC/	3 Core & 4 Core Cables for Three Phase AC
0.50	16/0.2	39.0	0.6	0.9	0.9	0.9	6.2	6.5	7.0	4	4
0.75	24/0.2	26.0	0.6	0.9	0.9	0.9	6.5	6.9	7.5	7	7
1.0	32/0.2	19.5	0.6	0.9	0.9	0.9	6.9	7.4	8.0	12	10
1.5	30/0.25	13.3	0.6	0.9	0.9	1.0	7.5	8.0	8.7	16	14
2.5	48/0.25	7.98	0.7	1.0	1.0	1.0	8.9	9.4	10.3	20	18
4.0	56/0.3	4.95	0.8	1.0	1.0	1.0	10.1	10.8	11.9	27	24
6.0	84/0.3	3.30	0.8	1.1	1.2	1.2	11.5	12.4	13.6	34	30
10.0	80/0.4	1.91	1.0	1.3	1.4	1.4	14.7	15.8	17.5	44	39
16.0	126/0.4	1.21	1.0	1.4	1.4	1.4	17.0	18.1	20.0	61	55

3 Core Flat Submersible Cables



V-Guard three core flat cables are ideally suited for heavy duty applications mainly in submersible pumps.

Application

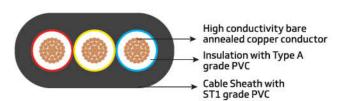
Flat cables for Submersible Pumps & Motors

Features

- Better finish and strength for heavy duty applications
- Non hygroscopic: High discoloration resistance capacity of copper conductors
- · High abrasion resistant

Technical Details

- Cable design reference standard: IS 694:2010
- Voltage grade: Up to and including 1100 V
- Size: 1 to 10 Sq.mm in three cores
- Conductor: Electrolytic grade annealed copper class 5 as per IS 8130
- Insulation: PVC with 70° C rating as per IS 5831
- Sheath: PVC with 70°C rating as per IS 5831
- Sheath Colour: Black
- Packing: Standard packing of 500 m (coils & drum)
 Longer length also available on request



Conductor nominal area in Sq.mm	Number & nominal diameter of wire in No./mm	Resistance (Maximum) per km.	Nominal thickness of insulation	Nominal thickness of sheath	over all	ximate diameter mm	Current carrying capacity at 40°C in Ampere
54	iii i i i i i i i i i i i i i i i i i	@ 20°C in Ohm	in mm	in mm	Width	Height	III Allipere
1.0	32/0.2	19.5	0.6	0.9	9.4	4.4	12
1.5	30/0.25	13.3	0.6	0.9	10.3	4.7	16
2.5	48/0.25	7.98	0.7	1.0	12.3	5.5	22
4.0	56/0.3	4.95	0.8	1.0	14.1	6.2	29
6.0	84/0.3	3.30	0.8	1.1	16.2	7.0	37
10.0	80/0.4	1.91	1.0	1.4	20.9	8.9	51



Speaker Cables

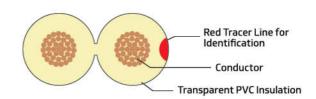


V-Guard Speaker Cables are designed to be used at homes for speakers & sound systems.

Salient Features

- 99.97% pure Copper
- Better flexibility for easy wiring
- Uniform capacitance throughout the length
- Distortion free voice with low dB loss

Cable Cross Section View



Technical Details

- Conductor: Speaker cables are manufactured with multi wire, bright annealed flexible bare electrolytic grade conductor
- Insulation: Twin parallel insulated with specially formulated transparent grade PVC compound. For easy identification, one of the cores is marked with red tracer line all along the length of the cable
- · Packing: Available in 90 meter packed in carton

Technical Specifications for Speaker Cables										
Conductor nominal area in Sq.mm	Number & nominal diameter of wire in No./mm	Resistance (Maximum) per km. @ 20°C in Ohm	Approximate over all diameter in mm	Nominal thickness of insulation in mm						
0.5	16/0.2	39.0	4.70 x 2.30	0.70						
0.75	24/0.2	26.0	5.20 x 2.55	0.75						
1.0	32/0.2	19.5	5.60 x 2.80	0.80						
1.5	30/0.25	13.3	6.40 x 3.20	0.85						
2.0	40/0.25	9.05	7.10 x 3.55	0.90						
2.5	50/0.25	7.98	7.60 x 3.75	0.95						

Coaxial Cable (RG6)



V-Guard Coaxial Cables are designed to be used at homes for television sets and also in security agencies for advanced data transmission.

Salient Features

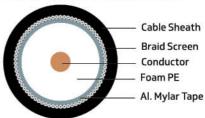
- Protects signals from external electromagnetic interference
- Very low Attenuation or signal losses
- · For both analog and digital transmission
- Special jacketing offers increased life even in rugged conditions
- Jelly filled

Technical Details

- Conductor: The central conductor is made of solid electrolytic grade annealed bare copper (BC) conductor or copper clad steel (CCS) conductor
- Insulation: The insulation provided over the conductor is of foam polyethylene (PE) dielectric insulator with gas injected in it to reduce signal loss
- 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 Aluminium-Magnesium alloy
- Packing: Available in 100 meter packed in carton and 305 meter packed in easy pull box. Higher lengths available on special request







Telephone Cables



V-Guard twisted paired cables are best suited for telephone and switchboard cabling applications. The cables can be used for switchboard and internal telephone wiring in apartments, high-rise buildings, offices, factories, hotels, residential complexes, etc. The most common sizes are 2 Pair, 3 Pair, 4 Pair and 5 Pair in conductor of 0.4 mm or 0.5 mm.

Salient Features

- Low Power Loss
- Low Crosstalk
- Fire Retardant Sheath
- Low Attenuation

Range of Product

• 1 Pair to 20 Pair (0.4 mm / 0.5 mm)

1 Pairto 20 Pair (

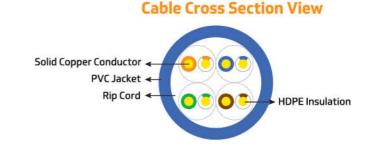
Technical Details:

• Conductor: The central conductor is made of bare annealed solid electrolytic grade of copper



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

Packing: Available in 90 meter and 500 meter. Higher lengths available on special request



SI. No	Technical Parameters			Requirements				
Α	Physical Parameter							
1	Construction	1 Pair	2 Pair	3 Pair	4 Pair	5 Pair		
2	Conductor Material: 0.4 mm diameter (nominal) & 0.5 mm diameter (nominal)			Annealed Bare Cop Conductivity & Pur		10		
3	Insulation Material (0.4 & 0.5 mm diameter)		High	Density Polyethy	/lene			
4a	Insulation Thickness (Average) for 0.4 mm diameter	0.17 mm	0.17 mm	0.17 mm	0.17 mm	0.17 mm		
4b	Insulation Thickness (Average) for 0.5 mm diameter	0.20 mm	0.20 mm	0.20 mm	0.20 mm	0.20 mm		
5a	Diameter of Insulated Conductor for 0.4 mm diameter	0.74 mm	0.74 mm	0.74 mm	0.74 mm	0.74 mm		
5b	Diameter of Insulated Conductor for 0.5 mm diameter	0.92 mm	0.92 mm	0.92 mm	0.92 mm	0.92 mm		
6	Rip cord (0.4 & 0.5 mm diameter)			Nylon				
		White-Blue/ Blue						
		- White-Orange/ Orange						
7	Colour Combination	(=)	(. -)		White-Green/ Green			
	Productive and stated and address of the state of	(4)	2-2 (White-Br	White-Brown/ Brown		
		(2)	5 4 7	(=)	2	White-Grey/ Grey		
8	PVC Jacket (0.4 mm diameter & 0.5 mm diameter)	F	RPVC compound	with high oxygen	index (LOI = 29%))*		
9a	PVC Thickness Minimum (for 0.4 mm)	0.32	0.32	0.32	0.32	0.32		
9b	PVC Thickness Minimum (for 0.5 mm)	0.32	0.32	0.32	0.62	0.62		
10a	Approximate Outer Diameter (for 0.4 mm)	2.40	2.73	3.20	3.55	4.00		
10b	Approximate Outer Diameter (for 0.5 mm)	2.74	3.15	3.71	4.90	5.43		
11	Packing Length (meters)		Available	in 90 meter and 5	00 meter			
В	Electrical Parameters							
1	Conductor Resistance (maximum) ohm/km at 20°C	143 Ω /	km for 0.4 mm d	iameter & 92.2 Ω /	km for 0.5 mm d	iameter		
2	Mutual Capacitance (maximum) Nano Farads/km	50	50	50	50	50		
3	Insulation Resistance in Air (minimum) Meg-ohms/km	10000	10000	10000	10000	10000		
4	Capacitance Unbalance Pair to Pair (maximum) Pico Farad / km	250	250	250	250	250		

Lan Cable

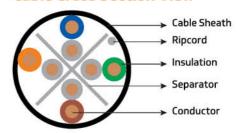
V-Guard LAN Cables enable data transfer without transmission loss or theft. These technologically advanced cables are compatible with the most superior networking switch gears and provide express-speed performance of up to 250 MHz. Its unique zero interference feature assures that no signal loss is experienced during data transfer process.

Salient Features

- · Min. radiation and max. noise immunity
- · Excellent electromagnetic compatibility
- High speed data access
- Prevent cross talking

Technical Details

- · Conductor: Solid bare copper
- · Insulation: High density polyethylene
- · Pair: 2 Insulated conductors twisted together with unique lay
- Outer Jacket: FR PVC
- · Outer Jacket colours Yellow or as per customer requirement
- Packing: Available in 305 meter packed in easy pull box



Description	Unit	Size / Specification
	Onic	Size / Specification
CONDUCTOR:		
Conductor Material	1622	23 AWG Solid Annealed Bare Copper
Conductor dia	mm	0.55 ± 0.01
INSULATION		
a) Composition of insulation		High Density Polyethylene
b) Nominal diameter for insulation	mm	0.98 ± 0.02
c) Nominal Thickness for insulation	mm	0.24
LAID UP		
Rip Cord Material		3 Ply Nylon
Colour Codes		Brown / Brown-White Green / Green -White Blue / Blue-White Orange / Orange-White
SHEATH		
a) Composition of Sheath	-	FRPVC compound with high oxygen index (LOI > 29%)
b) Hardness of Sheath	Shore A	86 - 88
c) Nominal Thickness for sheath	mm	0.7
d) Nominal Diameter for sheath	mm	6.0 ± 0.2
ELECTRICAL CHARACTERISTICS		
Mutual Capacitance	nF/100m	< 5.6
Nominal Impedance	Ω	100±15
Nominal Velocity of Propagation	%	> 65 @ 250 MHz
Conductor Resistance	Ω/km	< 78.3
Resistance Unbalance	%	<2
Capacitance Unbalance	pF/100m	330
Propagation Delay	nS/100m	< 546 @ 20° C
Delay Skew	nS/100m	< 45 @ 20° C
Return loss test @ 250 MHz		TIA/EIA 568 C
Attenuation test @ 250 MHz	1000	TIA/EIA 568 C
Temperature Range	°C	Up to 70°

CCTV Cable CTV CABLE V-GUARD CCTV CABLE

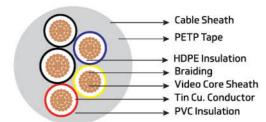
V-Guard offers specially designed cables for CCTV Camera cable for high quality video transmission. These cables are designed to transmit the complete video frequency range with minimum distortion or attenuation. They offer reliable security by withstanding over-heating, seepage, weather changes and rodent attacks.

Salient Features

- Minimum distortion of video frequency range
- · Clear Picture even on low frequency

Technical Details

- 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: Black coloured PVC Power Cores
- Separator: PETP tape
- Sheath: PVC
- Cable Colour: White
- Packing: Available in 100 meter packed in carton and 305 meter packed in easy pull box



	TECHNICAL SPECI	FICATION OF CCTV CABLES			
	Construc	tion Parameters			
Co-axi	al Cable Section	F	ower Cable Section		
Inner Conductor		Number of Cores	3+1	4+1	
Material	Annealed Tinned Copper	Conductor	7x0.20 Annealed Ti	nned Copper	
Diameter in mm (Nominal)	9x0.20	Insulation	Type A PVC conform	ing to IS:5831	
Dielectric Insulation		Diameter in mm (Nominal)	1.47		
Material	PE			Dod Velley	
Diameter in mm (Nominal)	1.50	Colour Codes	Red, Yellow, Blue	Red, Yellow, Blue, Black	
Shield		Jacket		W.	
Material	48/0.12 TC	Material	ST 1 PVC conformir	onforming to IS:5831	
Jacket		Colour	White		
Material	PVC Black	Diameter in mm	6.50	7.00	
Diameter in mm (Nominal)	3.00	Diameter in mm	6.50	7.00	
	Electrica	al Specifications			
Nominal DC Resistance at 20° C (Ohm)	3.55		Performance		
Material Committee on CaTion	53	Frequency in MHz	Max. Attenuation (db	/100m) at 20°	
Mutual Capacitance (pF/m)	33	55	6.73		
Characteristics Impedance	75	187	11.81		
(Ohm)	/3	300	14.60		
Characterial Datum I as-	Min 15 dD 0 1 1000 MII-	550	19.52		
Structural Return Loss	Min 15 dB @ 1 - 1000 MHz	750	22.87		
Nominal Velocity Ratio (%)	85	865	24.67		
Nominal velocity Ratio (%)	05	1000	26.64		



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