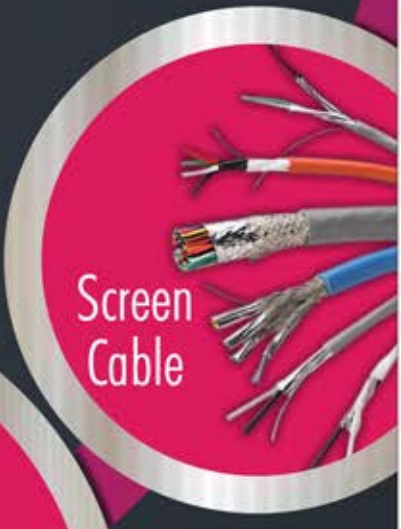
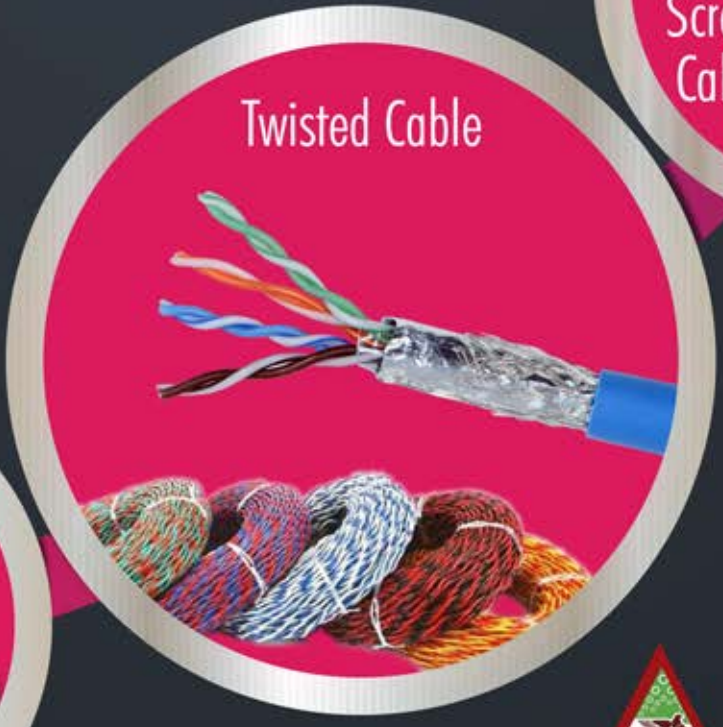
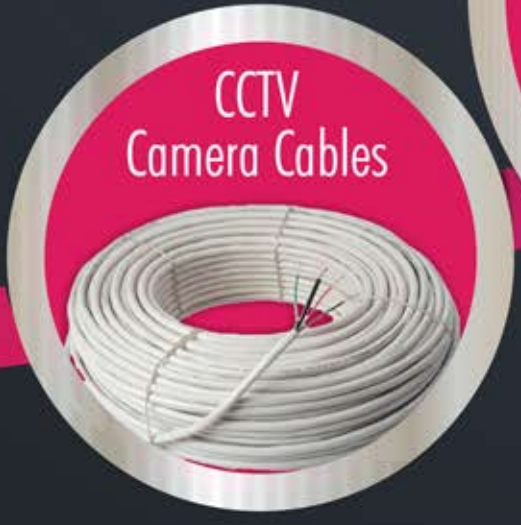
MESHVA
Cables Industries

Manufacturer of CCTV Camera Cables, LAN Cables, Co-Axial Cables
Screen Cables and any other, Special Wires & Cables







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Quality Assessors

An ISO 9001:2015 Certified Company

"MESHVACAB" BRAND CCTV Cable

"MESHVACAB" CCTV Cables used are of hybrid type with combination of communication and electrical wires.
The communication cables are used for recording the images by the camera and to communicate with the data centre.
The 3 or 4 number of electric wires in this cables are used for powering the cameras.
Coaxial cables are designed to transmit the complete video frequency range with minimum distortion or attenuation, making them an excellent choice for CCTV. The Coaxial cable consists of solid annealed bare copper conductor of electrolytic grade which is insulated with foamed dielectric, aluminium foil taped, braided with Alu. Alloy / Tin Copper and then jacketed with UV PVC. Co axial cables which offer low weight and helps loss free signal transmission.
The conductor for this cable is of solid bare copper type which offers low conductor resistance and lower attenuation. This result in better picture quality.

The electric wires in this cable come with annealed bare flexible type copper conductor, insulated with PVC.
These insulated cores are laid up along with co – axial cable and further PVC jacketed with white colour.
These cables are most suitable for outside application as the PVC jacket offers UV protection

CONSTRUCTION	MATERIAL/UNIT	MESHVACAB		MESHVACAB	
Cable Size		CCTV Cable 3C+1		CCTV Cable 4C + 1	
		POWER CABLE			
Conductor					
Material	Annealed bare Copper				
No. of Strand / Dia. (Nom)	Nos. / MM	14 / 0.130 ± 0.0020		14 / 0.130 ± 0.0020	
Insulation	PVC (Type A)				
Thickness (Nom.)	MM	0.30		0.30	
Colour		Red,Yellow, Blue		Red,Yellow, Blue, Brown	
		CO-AXIAL CABLE			
Conductor					
Material	Solid Bare Copper				
No. of Strand / Dia. (Nom)	Nos. / MM	1 / 0.55 ± 0.020		1 / 0.55 ± 0.020	
Insulation	PE / HDPE				
Thickness (Nom.)	MM	0.60		0.60	
Shield					
1st Shield	Bonded Aluminium Foil	100 %	With Drain Wire	100 %	With Drain Wire
2nd Shield	Aluminium Alloy Braid				
a.Wire Dia. b.Nominal Coverage	MM %	0.120 70%	N.A	0.120 70%	N.A
Co-AXIAL Outer Sheath	PVC ST3				
Colour		Black		Black	
Thickness (Nominal)	MM	0.40		0.40	
Over All Outer Sheath	PVC ST3				
Colour		White		White	
Thickness (Nominal)	MM	0.60		0.60	

Electrical Specification		Frequency	Max. Attenuation (dB/100 m) At 20°C
Capacitance (Nom)	53.0 pF/m	55 MHz	6.73
Structural Return Loss	Min.15dB@1-1000MHZ	187 MHz	11.81
Nom. Velocity Ratio	85%	300 MHz	14.60
Min.Bending Radius	10 X Outer Dia.	550 MHz	19.52
Characteristic impendence	75±3 ohm	750 MHz	22.87
		1000 MHz	26.64

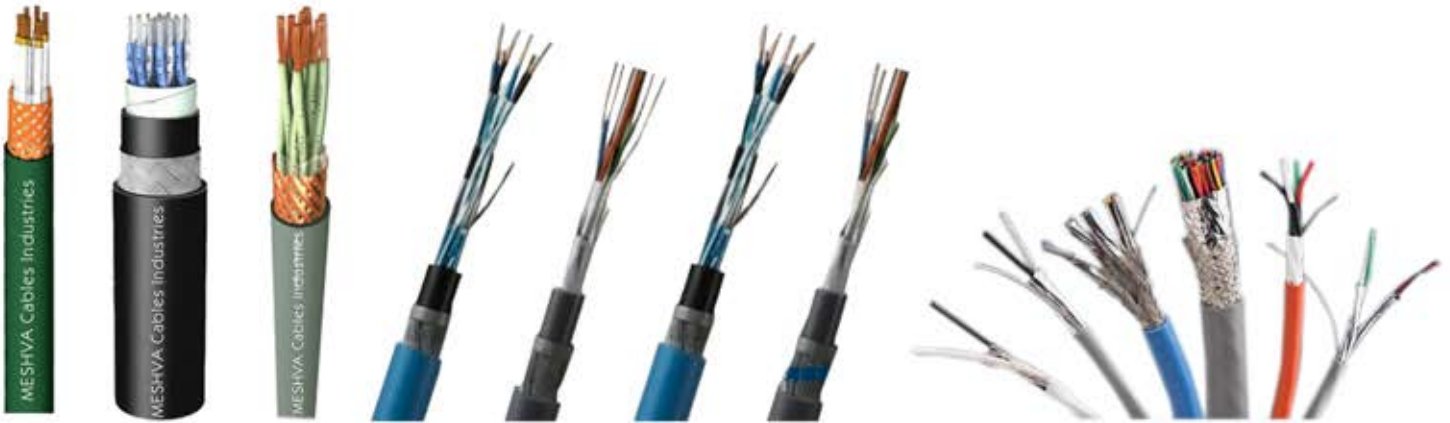
"MESHVACAB" BRAND Screen Cable / Signal Transmission Cable

Application :

Special purpose application in low voltage electric control , measuring or regulation in control equipment for assembly and production lines, conveyors and for computers units , public addressing & networking system , pipe channel music, Inter connection of ground, sea and airborne instruments and equipments, Signal & data transmission used in measurement & Control Technology such as in control room at industrial plants, power station, Refineries, Petrochemicals. Suitable for fixed installations or for flexible use when temporarily moved, and in conditions of medium mechanical stress.
These cable with copper screening are ideally suitable for interference free data and signal transmission in measuring and control technology.

As "MESHVACAB" shielded cables are provided with dual screening i.e. an Aluminium foil having 100 % coverage in conjunction with tinned copper braid shield, it is more effective to eliminate the interference because it is provided with tinned copper braid shielding of 90 % coverage. "MESHVACAB" Shielded cables are insulated with high grade of PVC & it is having very good outstanding electrical properties. It is flexible and easy to handle also. In this cables a tinned copper is installed to provide continuous contact with the shield and to allow connection to ground
the terminals. Tinning the drain reduces Galvanic corrosion between drain and shield

No. Of Cores & Cross Sectional Area mm^2	Nominal Thickness Of Insulation mm	Shield Braiding Coverage %	Nominal Thickness Of Outer Sheath mm	Conductor Resistance At 20^0 C. Max. Ohm/km.
2 Core				
0.50	0.60	80-85	0.80	39.0
0.75	0.60	80-85	0.80	26.0
1.0	0.60	80-85	0.90	19.50
1.50	0.60	80-85	0.90	13.30
2.50	0.70	80-85	1.00	7.98
4.0	0.90	80-85	1.00	4.95
6.0	1.00	80-85	1.10	3.30
3 Core				
0.50	0.60	80-85	0.80	39.0
0.75	0.60	80-85	0.80	26.0
1.0	0.60	80-85	0.90	19.50
1.50	0.60	80-85	0.90	13.30
2.50	0.70	80-85	1.00	7.98
4.0	0.90	80-85	1.10	4.95
6.0	1.00	80-85	1.10	3.30
4 Core				
0.50	0.60	80-85	0.80	39.0
0.75	0.60	80-85	0.80	26.0
1.0	0.60	80-85	0.90	19.50
1.50	0.60	80-85	0.90	13.30
2.50	0.70	80-85	1.00	7.98
4.0	0.90	80-85	1.10	4.95
6.0	1.00	80-85	1.20	3.30



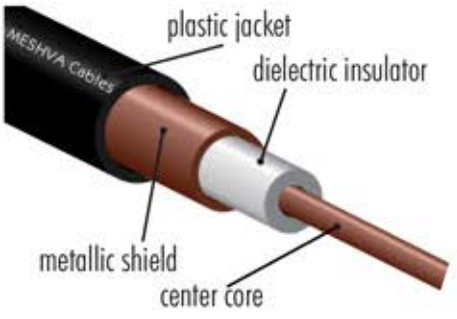
"MESHVACAB" BRAND CO-Axial Cables

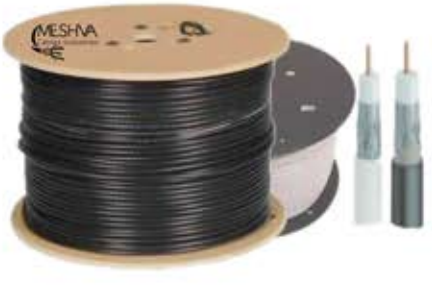
"MESHVACAB" Co-axial cables used for CABLE TV networks are designed for optimum performance and value for money.
The cables offer higher bandwidth, so your customers can receive the maximum number of channels with a high level of picture and sound quality.
The central conductor is made of solid electrolytic grade high conductivity, bright annealed 99.97 pure copper to ensure better signal transmission.
The conductor is insulated with Dielectric (PE). The double screen of special composite type bonded aluminium foil and
special grade aluminium alloy braiding of 70 % coverage ensure low loss in signal quality, additional mechanical strength and resistance to
oxide formation in tropical whether conditions. The PVC compound used in the jacketing is UV and abrasion resistant.
Cable is sequentially marked along the length at every metre.
Each length of the cable is 100% tested before dispatch.

get real picture and
sound quality
with co-axial cable

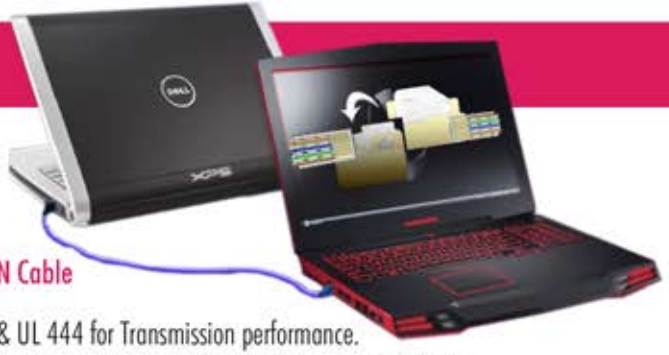
Range : RG 59 F, RG 6 F, RG 11 F, RG 6 CCS, RG 11 F CCS Unarmoured

Construction Parameters	RG 11 F	RG 6 F	RG 59 F
Center Conductor	Solid Bare Copper	Solid Bare Copper	Solid Bare Copper
Nom Dia. (mm)	1.63 ± 0.01	1.02 ± 0.01	0.80 ± 0.01
Dielectric	PE	PE	PE
Nom. Thickness	2.75 ± 0.02	1.77 ± 0.02	1.38 ± 0.02
Nom Dia. (mm)	7.13 ± 0.02	4.55 ± 0.02	3.56 ± 0.02
Shield			
1st Shield	Al.Foil Bonded	Al.Foil Bonded	Al.Foil Bonded
2nd Shield	Al.Alloy Braiding	Al.Alloy Braiding	Al.Alloy Braiding
Min. Coverage	70%	70%	70%
Flooding Compound	Jelly	Jelly	Jelly
Jacket	PVC Black	PVC Black	PVC Black
Nom Dia. (mm)	10.35	7.30	6.25
Bending Radius (mm)	70	60	60
Electrical Parameters			
Center Conductor (Max.Resistance @ 20° C)	0.85 ohm/100mtr	2.14 ohm/100mtr	3.55 ohm/100mtr
Nom. Capacitance (Pf/Mtr.)	53+3	53+3	53+3
Characteristics impedance (ohms)	75+3	75+3	75+3
Nom. Velocity Ratio(%)	85	85	85
Attenuation @200 C. (db/100Mtr.)at			
5 MHz	1.25	1.95	2.82
55 MHz	3.15	5.20	6.73
250 MHz	6.72	10.50	13.45
300 MHz	7.38	11.50	14.60
350 MHz	7.94	12.45	15.75
400 MHz	8.53	13.30	16.73
450 MHz	9.02	14.35	17.72
550 MHz	9.97	15.70	19.52
600 MHz	10.43	16.45	20.34
750 MHz	11.97	18.35	22.87
865 MHz	13.05	19.95	24.67
1000 MHz	14.27	21.45	26.64





"MESHVACAB" BRAND LAN Cables



Range : CAT5, CAT5 E, CAT6, CAT6 E ect..

Description : 4 Pair Unshielded Twisted Pair (UTP) Category 5 / 5 E (5 Enhanced) LAN Cable

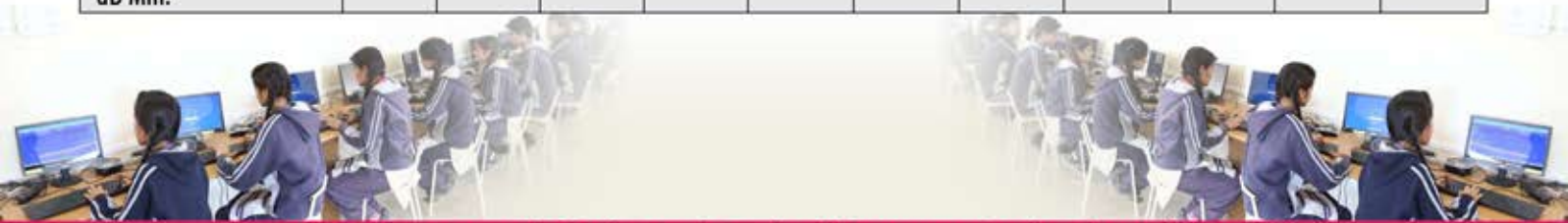
The Cables are verified to the performance category - 5 / 5E requirements of TIA/EIA 568 - A & UL 444 for Transmission performance.
This Category 5 / 5 E, four pair cable is a high speed, high performance, 100 ohm impedance cable capable of carrying high bit-rate signalling for extended distances in horizontal cabling. Signal amplifiers are not required for a length of 328 feet (100 M). Applications can include Voice, ISDN, ATM 155 Mbps, ATM 622 Mbps 100 Mbps TPDDI, Fast and Giga Ethernet, 100 Mbps TP-PMD, 1000 BASE-T.

TECHNICAL DATA-PHYSICAL		
●	Conductor	Solid Annealed bare Copper
●	Nom.Dia. Of Conductor	24 AWG (0.50mm)
●	Insulation	High Density Polyethylene
●	Colour Code	
	• 1 Pair	White,Blue
	• 2 Pair	White,Orange
	• 3 Pair	White,Green
	• 4 Pair	White,Brown
●	Outer Jacketing	FR PVC
●	Nom. Outer Dia.	5.50 mm
●	Jacket Colour	Grey/Blue

PARAMETRIC CHARACTERISTICS	
Impedance	100 ± 15 ohm
DC Resistance @ 20° C.	9.38 ohm/100 Mtrs. (Max)
Mutual Capacitance	5.60 nF/100 Mtrs. (Max)
Velocity of propagation	65% Min.
Delay Skew	45 ns/100Mtrs.@ 20° C. (Max.)
Propagation Delay	538 ns/100Mtrs.@ 200 MHz. @ 20° C. (Max.)
Capacitance Unbalance Pair To Ground	330 pF/100 Mtrs. (Max.)

TECHNICAL DATA – ELECTRICAL

Frequency (MHz)		0.772	1.00	4.00	8.00	10.00	16.00	20.00	25.00	31.25	62.50	100.00
Attenuation Max. dB/ 100 Mtr. @ 20° C		1.80	2.00	4.10	5.80	6.50	8.20	9.30	10.40	11.70	17.00	22.00
Next Worst Pair dB	CAT 5	64	62	53	48	47	44	42	41	39	35	32
	CAT 5E	64	62.3	53.3	48.8	47.3	44.3	42.8	41.3	39.9	35.5	32.3
Structural Return Loss dB Min.		N.A	23	23	23	23	23	23	22	21	18	16



Description : 4 Pair Unshielded Twisted Pair (UTP) Category 6 / 6E (6 Enhanced) LAN Cable

The Cables are verified to the performance category - 6 / 6E requirements of TIA/EIA 568 - A & UL 444 for Transmission performance.
This Category 6 / 6 E, four pair cable is a high speed, high performance, 100 ohm impedance cable capable of carrying high bit-rate signalling for extended distances in horizontal cabling. Signal amplifiers are not required for a length of 328 feet (100 M). Applications can include Voice, ISDN, ATM 155 Mbps, ATM 622 Mbps 100 Mbps TPDDI, Fast and Giga Ethernet, 100 Mbps TP-PMD, 1000 BASE-T.

TECHNICAL DATA-PHYSICAL		
●	Conductor	Solid Annealed bare Copper
●	Nom.Dia. Of Conductor	23 AWG (0.58mm)
●	Insulation	High Density Polyethylene
●	Colour Code	
	• 1 Pair	White,Blue
	• 2 Pair	White,Orange
	• 3 Pair	White,Green
	• 4 Pair	White,Brown
●	Outer Jacketing	FR PVC
●	Nom. Outer Dia.	6.50 mm
●	Jacket Colour	Grey/Blue

PARAMETRIC CHARACTERISTICS	
Impedance	100 ± 15 ohm
DC Resistance @ 20° C.	9.38 ohm/100 Mtrs. (Max)
Mutual Capacitance	5.60 nF/100 Mtrs. (Max)
Velocity of propagation	62.10% Min.
Delay Skew	45 ns/100Mtrs.@ 20° C. (Max.) @200 C. For 1 MHZ - 250 MHz
Propagation Delay	536 ns/100Mtrs.@ 250 Max. @ 20° C. (Max.)
Capacitance Unbalance Pair To Ground	330 pF/100 Mtrs. (Max.)

Frequency (MHz)	Attenuation Max. dB/100 Mtr.@20° C		Next Worst Pair dB			
			CAT 6		CAT 6E	
	Spec.	Typical	Spec.	Typical	Spec.	Typical
1	2.03	1.98	74.30	76.80	74.30	80.05
4	3.78	3.70	65.27	67.75	65.27	71.00
8	5.32	5.20	60.75	63.25	60.75	66.50
10	5.95	5.80	59.30	61.80	59.30	65.05
16	7.55	7.35	56.24	56.72	56.24	62.01
20	8.47	8.25	54.78	57.48	54.78	60.55
25	9.51	9.26	53.33	55.83	53.33	59.10
31.25	10.67	10.42	52.88	54.38	57.88	57.65
62.5	15.38	15.00	47.36	49.86	47.36	53.14
100	19.80	19.35	44.30	46.79	44.30	50.05
110	20.85	20.42	43.68	46.15	43.68	49.44
120	21.86	21.41	43.11	45.60	43.11	48.85
140	23.80	23.27	42.11	44.60	42.11	47.88
155	25.16	24.60	42.45	43.94	41.45	47.20
175	26.91	26.32	40.65	43.15	40.65	46.42
200	28.98	28.37	39.78	42.28	39.78	45.55
210	29.78	29.15	39.47	41.95	39.47	45.22
220	30.97	29.90	39.16	41.65	39.16	44.74
230	31.34	30.65	38.87	41.37	38.87	44.63
240	32.10	31.42	38.60	41.09	38.60	44.37
250	32.85	32.15	38.33	40.81	38.33	44.09
300	36.43	35.68	37.14	39.64	37.14	42.90

Spec : CAT6 / 6E Specification

Typical : CAT6 / 6E Cable Performance

"MESHVACAB" INTRODUCTION

"MESHVA CABLES INDUSTRIES"

Established Since 2017 is a leading manufacturers of All types of CCTV cables, Coaxial, RG6, RG11 etc.., CAT5, CAT6 ect.., Screen Cables, Twisted Cables and Any other special instrumentation and communication cables in "MESHVACAB" brand

Conductor :

The conductor is made of electrolytic grade high conductivity, bright annealed bunched & Solid copper

Shield :

Special composite type bonded Aluminium Foil, Special grade of Aluminium Alloy Wire and electrolytic grade high conductivity, bright annealed Tin Copper

Outer Sheath :

In cables the outer sheath is of suitable grade of PVC compound (ST1, ST2, ST3, HR, FR, FRLS) , PE and XLPE applied by extrusion method on the laid up cores. The colour of the outer sheath is generally White, Black And Gray.
Any other colours provided on customer demand.

"MESHVA CABLES INDUSTRIES"

Situated at Near Bhoomi Gas Godown, Samarkha - Ajarpura Road, Ajarpura - 388310, Dist. Anand (Guj.) Ta. & Dist. Anand, Gujarat. It is well equipped with latest machinery & Equipment with in house modern laboratory to test the wires and cables as per Indian & International Specification.

Insulation :

The insulation is suitably PVC Compound (FR, FRLS, ZHFR, Type A, Type C, HR PVC) Polyethylene / XLPE is applied over conductors by the extrusion process.

Laying – Up :

All multi core cables are laid up as per colour scheme.

Marking :

We provided sequential marking with brand by Inkjet printer.

MESHVA Cables Industries

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