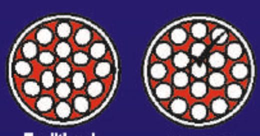
SAMFLEX

Innovate your Connection

WIRE & CABLES

MULTI-STAGE INTELI-TECH BUNCHING



IS : 694

CE

AN ISO 45001, 14001 & 9001

RoHS

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ABOUT THE COMPANY

EMMflex WIRE & CABLES ABOUT THE COMPANY MK Cable Industries Pvt. Ltd. An ISO 14001 & 9001 Certified Companyis one of the leading manufacturer of Wires and Cables in India EMMFLEX was established in the year 1990 to manufacture wires and cables for domestic and industrial use. Over the years, our approach to developing products involves understanding the practical application of the product. Our personal touch with the end consumer has allowedus understand the problems and needs at the ground level. This has motivated us to develop consumer-centric products for varied purposes. We give due attention to minute details that go into production. Ourstandard operating procedures ensure optimum quality and increase efficiency at the production level. We take pride in our quality control measures.

We have an in-house certified laboratory equipped with state-of-the- art instruments. Each lot of Raw Material is checked upon arrival at the factory premises. Technical properties are measured and compared with the standards. Material that fails to meet the specifications is removed from the manufacturing process and further process of quality checks and complaints to the vendor are initiated

SAMFLEX

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Don't compromise on
your family's safety.
Make the smart choice.
Switch to SAMFLEX
range of Wires and Cables.

SAMFLEX

Innovate your Connection

H R - F R

PVC Insulated Multistrand House Cable

SAMFLEX

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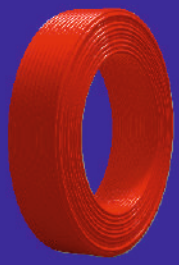
FR-LSH

PVC Insulated Multistrand House Cable

Cables that keep all the smart gadgets in your home safe and running at full load.

HR

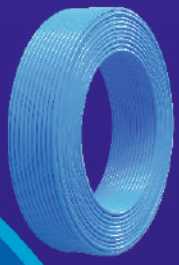


HR - HEAT RESISTANT

FR

FR - FLAME RETARDANT

LF



LF - LEAD FREE

TRIPLE LAYERED PVC INSULATION

ANTI TERMITE ANTI RODANT

20* Years Warranty

SUITABLE FOR ALL CLIMATES

CAT 6e UTP CABLE (FR)

SAMFLEX
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SAMFLEX CAT-6e UTP FR Cable enhances performance for transmission of high-speed data, digital and analogue voice and video (RGB). Exceptional construction and cable design eliminates distortion. High quality raw material used increases data transfer speed.

Backward compatibility with Cat 5 and Cat 5e. Supports gigabit ethernet and operates at a bandwidth up to 250 MHz

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CIRCUIT CAMERA TELEVISION CABLE (FR)

SAMFLEX cable for CCTV are specially designed to transmit video frequency with minimum distortion for security and surveillance.

* Versatile-Data Security and Integrity-Adaptable.

When you install best CCTV for your home safety then why settle for less for its installation wire? Elmeck CCTV cable provides high-definition audio and video transmission that compliments and enhances your CCTV.

SAMFLEX

Innovate your Connection

CO-AXIAL CABLES

Co-axial cable are used for
transmitting high frequency
electrical signals with lower losses.

* Supports clear voice
* High-Definition visuals
* Supports all type of DTH networks

TELEPHONE & SWITCHBOARD CABLES (FR)

SAMFLEX

Innovate your Connection

We know that they are
out-dated but their application
is wide and versatile.
Samflex telephone cable reduces
noise and increases sound quality.

Designed and manufactured for
underground and underwater use

* Abrasion resistance PVC compound
* High mechanical and electrical properties
* Eliminates the problem of cable overheating

SAMFLEX

Innovate your Connection

THREE CORE FLAT SUBMERSIBLE CABLES

SUITABLE FOR ALL CLIMATES

HR - HEAT RESISTANT

FR - FLAME RETARDANT

SAMFLEX

Innovate your Connection

MULTICORE FLEXIBLE ROUND CABLES

HR - HEAT RESISTANT

Designed and developed for industrial and domestic use, with properties of flexibility. Tender but high mechanical strength.

SAMFLEX

Innovate your Connection

FLEXIBLE, TWIN FLAT, PARALLEL & SPEAKER WIRE

The chemical composition of the PVC with stands all kinds of weather. The PVC is unbreakable and oil will never come on the surface.

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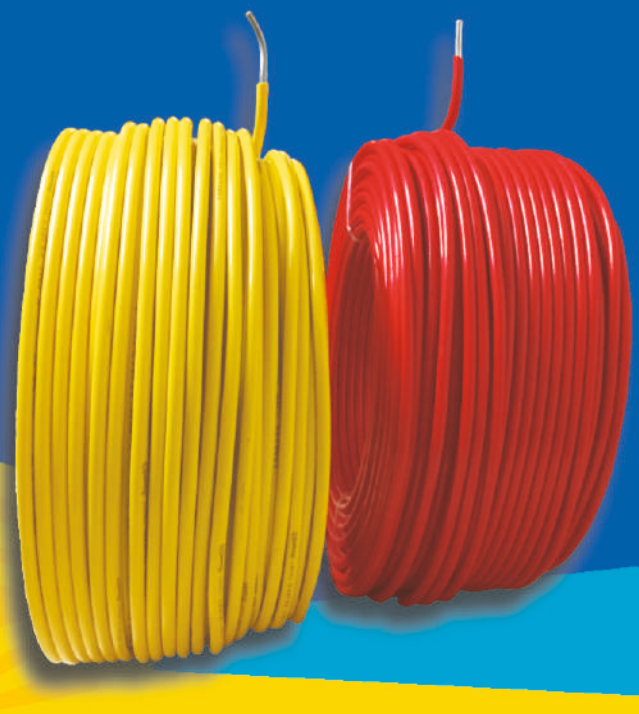
SOLID & STRANDED ALUMINIUM CABLE (SINGLE CORE)



RoHS

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ALUMINIUM TWIN FLAT CABLE

ALUMINIUM ROUND CABLE

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AUGUST

2025

TECHNICAL DATA

SINGLE CORE HRFR-LF PVC INSULATED INDUSTRIAL/HOUSE GRADE COPPER CONDUCTOR (UNSHEATHED) FLEXIBLE CABLES, 1100 VOLTS

SAMFLEX
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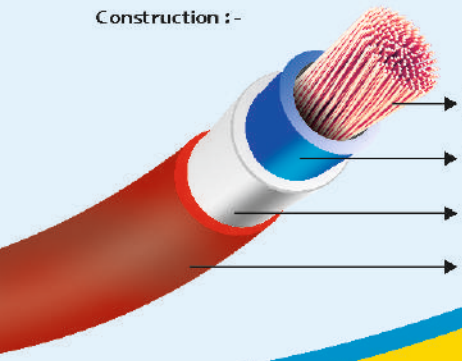
Nominal Cross Sectional area of conductor	Number/Nom. Dia of cond. strands	Thickness of Insulation (Nom)	Approx. Overall Diameter	Current Carrying Capacity of Cables Single Phase		Max. Conductor Resistance perKMat20°C
				Conduit/ Trunking	Unenclosed clipped directly to a surface or on cable trays	
SQ. MM	MM	MM	MM	AMPS	AMPS	OHMS
0.75**	24/0.2	0.6	2.5	7	9	26.0
1.0**	14/0.3	0.7	2.8	11	12	18.10
1.5**	22/0.3	0.7	3.0	13	16	12.10
2.5**	36/0.3	0.8	3.7	18	22	7.41
4.0*	56/0.3	0.8	4.4	24	29	4.95
6.0	84/0.3	0.8	4.8	31	37	3.30
10.0	80/0.4	1.0	6.4	42	51	1.91
16.0	126/0.4	1.0	7.4	57	68	1.21
25.0	196/0.4	1.2	9.2	71	86	0.78

Note: Available in 90 meters.

**Also available in 45 meters

*The number and diameter of conductor strands are for reference only. Conductor resistance as per IS:8130-2013 is the governing criteria.

Construction :-



Properties of conductor and insulated PVC used by Elmeck:

- The conductors are drawn from bright electrolytic grade copper, annealed and bunched together
- The copper used is more than 99.95% pure and therefore encourages superior conductivity which increases energy efficiency and saves electricity.
- The malleability of the copper makes the wire unbreakable and allows it to be easily twisted around the corners.
- The copper is lab tested and NABL Approved.
- In house formulated PVC's Flame Retardant properties ensures safety in case of fire.
- High thermal stability because of HR properties enables the cable to withstand overloads.
- High mechanical strength is achieved owing to higher percentage of elongation combined with good tensile strength.
- SAMFLEX LF properties eliminates toxic fumes that are dispersed in case of fire
- Comfortable and easy conduit through pipes when installing SAMFLEX wires.

THREE CORE FLAT HRFR PVC INSULATED INDUSTRIAL GRADE CABLE FOR SUBMERSIBLE USE, 1100 VOLTS

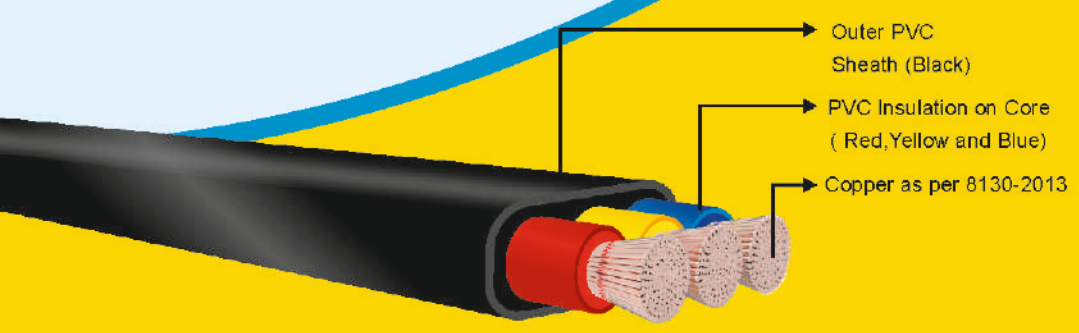
SAMFLEX
Innovate your Connection

A submersible pump cable is a specialized product to be used for submersible pumps in a deep well.
The area of installations is physically restrictive, and the environment is very hostile.
Elmeck's three core submersible flat cable are manufactured and designed for use in underground, under-water or on wet surface.

FEATURES OF SAMFLEX 3 CORE FLAT SUBMERSIBLE CABLE

* Outer sheath consists of highly abrasion resistant PVC compound impervious to grease, oil and water etc.
* Good insulation properties even when submerged in water.
* High mechanical & electrical properties that ensures easy installation and long life.
* Progressive sequential length marking on every meter

Nominal area of conductor	Number/ Size of wire for each core	Thickness of Insulation (Nom)	Thickness of Sheath. (Nom)	SHEATH Approx Overall Dimension		Max. Conductor Resistance at 20°C (Max)	Current Carrying Capacity at 40°C
				Width(W)	Height(H)		
SQ. MM	MM	MM	MM	(MAX.) MM	(MAX.) MM	OHMS / KM	AMPS
1.50	22/0.30	0.6	0.9	12.0	5.6	12.1	13
2.50	36/0.30	0.7	1.0	13.0	6.2	7.41	18
4.00	56/0.30	0.8	1.0	15.3	7.1	4.95	24
6.00	84/0.30	0.8	1.1	19.2	8.4	3.30	31
10.00	80/0.40	1.0	1.4	24.2	10.4	1.91	42
16.00	126/0.40	1.0	1.4	29.2	12.4	1.21	57
25.00	196/0.40	1.2	2.0	36.5	15.7	0.78	72



IMPORTANCE OF SUBMERSIBLE CABLE

It is imperative to protect electrical appliances. Protecting these electrical appliances be come se ven more important when you are using them with water.

Elmeck has manufactured flat submersible cables suitable for underground and under water use.
These cables have been designed to meet the needs of submersible pumps and motors. Submerged in water, these submersible power cables posses excellent insulation properties due to their physical restrictions.

MULTICORE ROUND HRFR PVC INSULATED INDUSTRIAL GRADE COPPER CONDUCTOR (SHEATHED) FLEXIBLE CABLES, 1100 VOLTS

SAMFLEX
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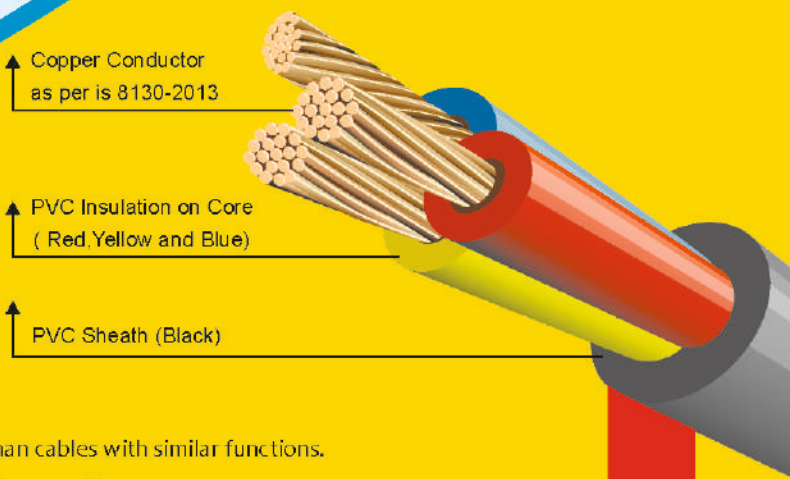
SAMFLEX manufactures and supply premium quality multi core flexible cables with copper conductor for various industrial and domestic applications for electrically operated Machines & Equipment's (ex. Air-Conditioners/ Refrigerators/ motors etc.)

Special formulated Polyvinyl Chloride (PVC) used for insulation and sheath tends to increase flexibility of cables. The sheathing material provides resistance to oil, and moisture and superior mechanical strength without losing its flexibility.

Nominal Cross Sectional area of conductor	Number Nom. Dia of cond. strands	Thickness of Insulation (Nom)	Nominal Thickness of Sheath			Max Overall Dia			Current Rating AC		Max. Conductor Resistance at 20°C (Max)
			2 Core	3 Core	4 Core	2 Core	3 Core	4 Core	Single Phase DC	Three Phase	
SQ. MM	MM	MM	MM	MM	MM	MM	MM	MM	AMPS	AMPS	OHMS
0.5	16/0.20	0.6	0.9	0.9	0.9	6.2	6.5	7.0	4	4	39.0
0.75	24/0.20	0.6	0.9	0.9	0.9	6.6	6.9	7.5	7	7	26.0
1.0	14/0.30	0.6	1.2	1.2	1.2	8.2	8.8	9.9	11	9	18.1
1.5	22/0.30	0.7	1.2	1.2	1.3	9.4	10.2	11.5	13	11	12.1
2.5	36/0.30	0.8	1.3	1.3	1.3	10.9	11.8	13.3	18	16	7.41
4.0	56/0.3	0.8	1.3	1.3	1.4	12.0	13.0	14.6	24	20	4.95
6.0	84/0.30	0.8	1.4	1.4	1.4	13.7	14.8	16.7	31	25	3.30
10.0	80/0.40	1.0	1.5	1.5	1.6	16.5	17.8	20.0	42	35	1.91
16.0	126/0.40	1.0	1.5	1.6	1.6	18.9	20.4	22.9	57	48	1.21
25.0	196/0.40	1.2	1.6	1.7	1.8	22.1	23.8	26.8	71	60	0.78



BENEFITS AND APPLICATIONS OF MULTICORE CABLES

SPACE-SAVING: A multicore cable takes almost 40% less space than cables with similar functions. By combining multiple conductors with different functionalities in one cable, we end up saving space and the confusion that can ensue because of multiple cables pooling around.

INDUSTRIAL MACHINERY: Plant engineering and installation

INSTALLATION IN ALL ELECTRICALLY OPERATED MACHINES: These wires are flexible and provide optimal protection for machines and equipment that use electricity, including air conditioners, refrigerators, motors and more.

CONTROL PANELS: These wires/cables are used for wiring in control panels, machines and various electrical installations in dry and damp interiors especially under typical industrial environmental conditions.

CATEGORY 6 UNSHIELDED TWISTED PAIR (UTP) FR LAN CABLE

SAMFLEX
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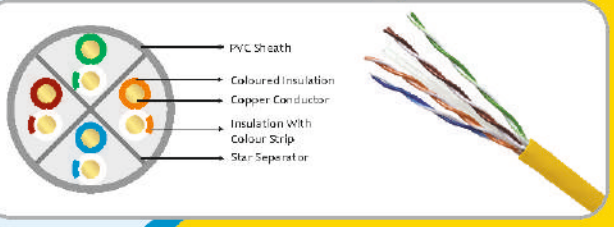
Category 6 cable (Cat 6) is a standardized twisted pair cable for Ethernet that is backward compatible with the Category 5/5e and Category 3 cable standards. Cat 6 meets more stringent specifications for crosstalk and system noise than Cat 5 and Cat 5e. The cable standard specifies performance of up to 250 MHz, compared to 100 MHz for Cat 5 and Cat 5e

TECHNICAL PROPERTIES

Core Specifications	
Conductors	23 AWG Annealed bare solid copper
Insulation	Low Density Polyethylene
Insulation Thickness	0.20mm
Pairs	4 Pair Insulated Cond.
Core Colour	Pair 1: White/Blue – Bue Pair 2 : White/Orange – Orange Pair 3 : White/Green – Green Pair 4 : White/Brown - Brown
SHEATH	
Sheath Material	Flame Retardant PVC
Star Separator	Low Density Polyethylene
Sheath Colour	Grey
Sheath Thickness	0.60mm
Overall Outer Dia.	6.10mm

ELECTRICAL PERFORMANCE

Impedance	100 +- 15 Ohms
Velocity of Propagation	62%
Conductor Resistance	<9.38 Ohm/100m
Insulation Resistance	100MOhm
Star Separator	Low Density Polyethylen
Sheath Colour	Grey
Temperature Rating	75 deg. C



APPLICATION : Enhanced performance for transmission of high-speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard.

This cable will exceed the requirements of ANSI/EIA – 568.C.2 Category 6 ISO 11801 Class E.

COMPATIBILITY : Compatible with all common systems according to TIA/EIA 568.C.2 and ISO/IEC 11801 Class E.

FEATURES : Exceptional material properties and cable design. Cable supports frequency of up to 250 MHZ. Cable supports data transfer of upto 1000Mbps – Gigabit. Maximum noise immunity. High speed data access. Backward compatibility with Cat 5 and Cat 5e.

Frequency (Mhz)	Max Attenuation		Min NEXT (dB)		Min. PS NEXT (dB)		Min. ACR Next(dB)		Min. ACR PS NEXT (dB)		Min. ACR PS NEXT (dB)		Min. PS EL PSACR-F (dB)		Min. Return Loss (dB)	
	Spe C.	Typic AL	Spe C.	Typic AL	Spe C.	Typic AL	Spe C.	Typic AL	Spe C.	Typic AL	Spe C.	Typic AL	Spe C.	Typic AL	Spe C.	Typic AL
1.00	2.00	1.98	74.30	76.81	72.30	75.54	72.30	74.79	70.30	73.56	67.80	70.75	64.80	67.75	20.00	42.27
4.00	3.80	3.70	65.30	67.78	63.30	66.51	61.50	64.00	59.50	62.81	55.80	58.71	52.80	55.71	23.00	38.05
8.00	5.30	5.20	60.80	63.27	58.80	62.00	55.40	57.95	53.40	56.80	49.70	52.69	46.70	49.69	24.50	35.95
10.00	6.00	5.82	59.30	61.81	57.30	60.54	53.40	55.86	51.40	54.73	47.80	50.75	44.80	47.75	25.00	35.27
16.00	7.60	7.38	56.20	58.75	54.20	57.48	48.70	51.20	46.70	50.10	43.70	46.67	40.70	43.67	25.00	33.84
20.00	8.50	8.28	54.80	57.30	52.80	56.03	46.30	48.83	44.30	47.75	41.80	44.73	38.80	41.73	25.00	33.16
25.00	9.50	9.29	53.30	55.85	51.30	54.58	43.80	46.34	41.80	45.28	39.80	42.79	36.80	39.79	24.30	32.28
31.25	10.70	10.43	51.90	54.39	49.90	53.12	41.20	43.72	39.20	42.69	37.90	40.86	34.90	37.86	23.60	31.80
62.50	15.40	15.04	47.40	49.88	45.40	48.61	32.00	34.49	30.00	33.56	31.90	34.83	28.90	31.83	21.50	29.70
100.00	19.80	19.37	44.30	46.81	42.30	45.54	24.50	27.01	22.50	26.17	27.80	30.75	24.80	27.75	20.10	28.27
200.00	29.00	28.38	39.80	42.30	37.80	41.03	10.80	13.32	8.80	12.65	21.80	24.73	18.80	21.73	18.00	26.16
250 .00	32.90	32.17	38.30	40.85	36.30	39.58	9.70	12.20	7.70	11.55	19.80	24.31	16.80	21.31	17.30	20.01

RG-6 CO-AXIAL CABLE

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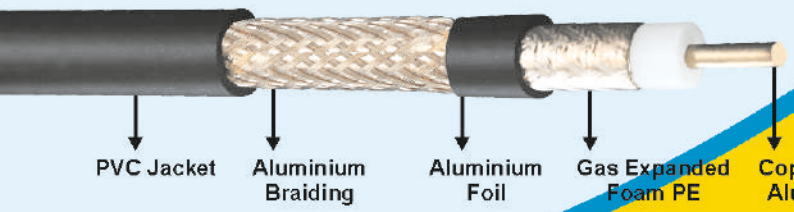
Co-axial cables are used for transmitting high-frequency electrical signals with low losses. Cable is used in a variety of applications, including telephone trunk lines, high-speed computer data buses, cable television signals, and radio transmitters and receivers connected to antennas.
Elmeck's RG-6 comes with center conductor of copper clad aluminium (CCA) and copper, shielded with gas injected physical foam, dielectric Poly-laminated aluminium tape is applied with sufficient overlap longitudinally over the foam dielectric. The second shield is of aluminium braiding with high tensile strength. Finally, outer sheathing is done of FR PVC.

TECHNICAL PROPERTIES	
Core Specifications	
Conductor Type	CCA / Copper
Nominal Conductor Diameter	18 AWG (CCA) / 19 AWG (Copper)
Dielectric Type	Dielectric Gas expanded foam PE
1st Shield	Shielding Aluminium tape bonded to dielectric
2nd Shield	Almunium braid wire
No of Braid Wire	64 (CCA) &128 (COPPER)
Dia. of Braid Wire	0.10mm (+- 0.02mm)

ELECTRICAL PARAMETERS	
Core Specifications	
Impedance	75 +- 3 Ohm
Typical Attenuation at 20deg C	
55 Mhz	5.24
211 Mhz	9.41
300 Mhz	11.25
400 Mhz	13.12
550 Mhz	15.45
750 Mhz	18.34
1000 Mhz	21.45

*Available in CCA/Copper
*Packing of 8 reels of 90m coil and 2 reels of 305m coil



HOW DO CO-AXIAL CABLE WORKS?
Co-axial cables are mainly built up of these four different layers:
1. A centre conductor which is usually a copper wire, through which data and video travels through
2. Surrounding the copper wire is a dielectric plastic insulator.
3. A braided mesh made from copper/alloy then helps to shield the cable from electromagnetic interference (EMI).
4. The external layer is a plastic coating which protects the internal layers from damage.
Co-axial cable works by carrying data in the centre conductor, while the surrounding layers of shielding stop any signal loss (also called attenuation loss) and help reduce EMI.

TELEPHONE PAIR CABLE

The primary purpose of telephone cables is to connect telephone equipment both internally and externally. In addition to interconnecting other communication and control equipment, these cables may be used for low- levelsignaling.

ELECTRICAL PARAMETERS	
Conductors Resistance (max) ohms/km at 20oC	143.00
Mutual Capacitance (max.) nf/km	50
Insulation Resistance in Air (min.) M-ohms/km	10,000
Capacitance Unbalance Pair to Pair (max.) pF/km	250

TECHNICAL PROPERTIES			
Conductors	Solid Bare Copper Conductor		
Nominal Conductor Diameter	0.41mm		
Insulation	Low Density Pe		
Thickness	0.40 mm		
Dia. Of Insulated Conductor	1.10 mm		
SIZE	**1 PAIR**	**2 PAIR**	**4 PAIR**
Colour Combination	Red / Black	White/Black and White Orange	White/Black, White/Orange, White/Green and White/Brown
Outer Jacket Thickness	0.50mm	0.55mm	0.55mm
Approximate Overall Dia.	3.10mm	3.40mm	4.00mm

CCTV CABLE

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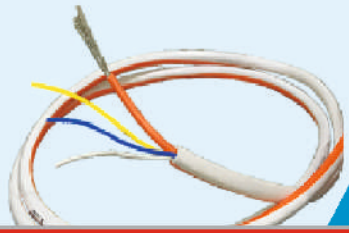
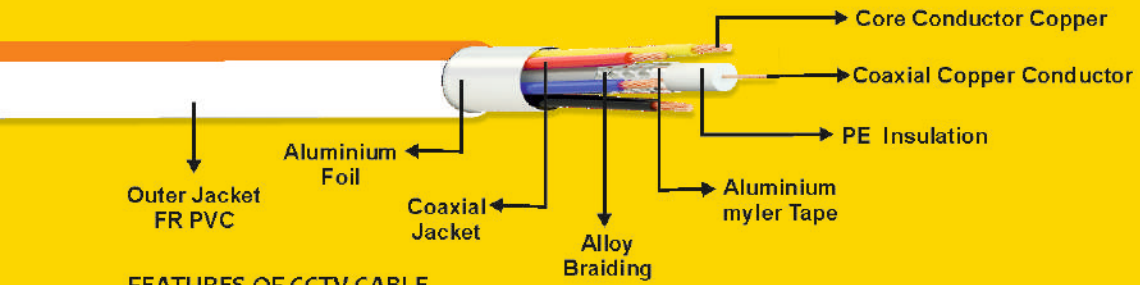
These cables are specifically designed to transmit complete video frequency with minimum distortion or attenuation for security and surveillance. Elmeck's CCTV cables are offered in two types i.e., 4+1 CCTV cables and 3+1 CCTV cable. These are designed to provide high quality streaming of data.



TECHNICAL PROPERTIES		
Color and Material of Outer Shield	FR PVC	FR PVC
Size	**3+1**	**4+1**
Cable Diameter (OD)	5.90 +- 0.3 mm	6.40 +- 0.3 mm
Jacket Thickness	0.90 +- 0.20 mm	1.10 +- 0.20mm
COAXIAL CABLE SPECIFICATIONS		
Inner Conductor	Copper	
No of Conductor	1	
Conductor Size	0.5 mm	
Dielectric	Solid PE	
Color	Natural	
Diameter	1.34 +- 0.20 mm	
Thickness	0.40 +- 0.2 mm	
1st Shield	Aluminium myler tape	
2nd Shield	Alloy braiding	
Dia. Of Braid	0.120 +- 0.02 mm	
WireNo. of Braiding Wires	48	
Colour	Orange	
Insulated Cores	Low Density PE	
CORE SPECIFICATIONS		
No. of Strands	14	
Strand Diameter	12 mm +- 0.01 mm	
Insulation	Low Density PE	
Diameter	1.12 +- 0.2mm	
Size	**3+1**	**4+1**
Core Colour	Yellow, Black and Blue	Yellow, Blue, Black and White



FEATURES OF CCTV CABLE

ERSATILE: CCTV Cable provides transmission of both data and power at the same time to security cameras. The co-axial cable in CCTV cable is used to transmit high-definition audio and video signals while the cores provide the power to the security camera.

DATA SECURITY AND INTEGRITY: The design of the cable ensures no interference between power transmission and data transmission. This ensures that the data is not distorted which enhances the security and surveillance.

ADAPTABLE: With a single cable, both power and data are transmitted, which makes the installation of security cameras straightforward and flexible. Elmeck's CCTV cable provides high-definition audio and video transmission with no data loss at affordable prices.

SAMFLEX

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ALUMINIUM SOLID UNSHEATHED SINGLE CORE CABLE

Nominal Cross Sectional area of conductor	Number/ Nom. Dia of cond. strands	Thickness of Insulation (Nom)	Max. Overall Diameter	Conduit / Trunking	Max. Conductor Resistance per KM at 20°C
SQ. MM	MM	MM	MM	AMPS	OHMS
1.5	1/1.40	0.7	3.20	11	18.10
2.5	1/1.78	0.8	3.90	13	12.1
4.0	1/2.24	0.8	4.40	18	7.41
6.0	1/2.76	0.8	5.00	24	4.61
10.0	1/3.57	1.0	6.40	31	3.08

ALUMINIUM SOLID SHEATHED SINGLE CORE CABLE

Nominal Cross Sectional area of conductor	Number/ Nom. Dia of cond. strands	Thickness of Insulation (Nom)	Thickness of Sheath (Nom)	Max. Overall Diameter	Conduit / Trunking	Max. Conductor Resistance per KM at 20°C
SQ. MM	MM	MM	MM	MM	AMPS	OHMS
1.5	1/1.40	0.7	1.10	5.90	11	18.10
2.5	1/1.78	0.8	1.10	6.70	13	12.1
4.0	1/2.24	0.8	1.20	7.20	18	7.41
6.0	1/2.76	0.8	1.20	8.10	24	4.61
10.0	1/3.57	1.0	1.20	9.50	31	3.08

ALUMINIUM STRANDED UNSHEATHED SINGLE CORE CABLE

Nominal Cross Sectional area of conductor	Number/ Nom. Dia of cond. strands	Thickness of Insulation (Nom)	Max. Overall Diameter	Conduit / Trunking	Max. Conductor Resistance per KM at 20°C
SQ. MM	MM	MM	MM	AMPS	OHMS
2.5	3/1.06	0.8	4.00	13	12.1
2.5	7/0.71	0.8	4.00	13	12.1
4.0	7/0.86	0.8	4.60	18	7.41
6.0	7/1.02	0.8	5.20	24	4.61
10.0	7/1.35	1.0	6.70	31	3.08
16.0	7/1.70	1.0	7.80	41	1.91
25.0	7/2.14	1.2	9.70	57	1.20
35	7/2.50	1.2	10.90	71	0.86
50	19/1.78	1.4	12.80	89	0.64
70	19/2.14	1.4	14.60	110	0.44
95	19/2.50	1.6	17.10	185	0.32
120	37/2.03	1.6	18.80	210	0.25
150	37/2.26	1.8	20.90	240	0.20

ALUMINIUM STRANDED SHEATHED SINGLE CORE CABLE

Nominal Cross Sectional area of conductor	Number/ Nom. Dia of cond. strands	Thickness of Insulation (Nom)	Thickness of Sheath (Nom)	Max. Overall Diameter	Conduit / Trunking	Max. Conductor Resistance per KM at 20°C
SQ. MM	MM	MM	MM	MM	AMPS	OHMS
2.5	3/1.06	0.8	1.10	6.70	13	12.1
2.5	7/0.71	0.8	1.10	6.70	13	12.1
4.0	7/0.86	0.8	1.20	7.20	18	7.41
6.0	7/1.02	0.8	1.20	8.10	24	4.61
10.0	7/1.35	1.0	1.20	9.50	31	3.08
16.0	7/1.70	1.0	1.30	10.60	42	1.91

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ALUMINIUM STRANDED TWIN FLAT CABLE

Nominal area of conductor	*Number/ Size of Wire for each Core	Thickness of Insulation (Nom)	Thickness of Sheath (Nom)	Sheath Approx Overall Dimension		Max. Conductor Resistance per KM at 20°C	Current Carrying Capacity at 40°C
				Width (W)	Height (H)		
SQ. MM	MM	MM	MM	(MAX)MM	(MAX)MM	OHMS/KM	AMPS
1.50	3/0.81	0.6	0.9	8.60	5.60	18.10	11
2.50	7/0.71	0.7	1.0	10.5	6.60	12.1	13
4.00	7/0.92	0.8	1.0	12.0	7.40	7.41	18
6.00	7/1.06	0.8	1.1	13.0	8.00	4.61	24
10.0	7/1.35	1.0	1.4	16.0	9.60	3.08	31
16.0	7/1.70	1.0	1.4	18.50	11.00	1.91	42

ALUMINIUM SOLID TWIN FLAT CABLE

Nominal area of conductor	*Number/ Size of Wire for each Core	Thickness of Insulation (Nom)	Thickness of Sheath (Nom)	Sheath Approx Overall Dimension		Max. Conductor Resistance per KM at 20°C	Current Carrying Capacity at 40°C
				Width (W)	Height (H)		
SQ. MM	MM	MM	MM	(MAX)MM	(MAX)MM	OHMS/KM	AMPS
1.50	1/1.40	0.6	0.9	8.60	5.60	18.10	11
2.50	1/1.78	0.7	1.0	10.5	6.60	12.1	13
4.00	1/2.24	0.8	1.0	12.0	7.40	7.41	18
6.00	1/2.76	0.8	1.1	13.0	8.00	4.61	24
10.0	1/3.57	1.0	1.4	16.0	9.60	3.08	31

ALUMINIUM MULTICORE STRANDED ROUND CABLES

Nominal Cross Sectional area of conductor	Number Nom. Dia of cond. strands	Thickness of Insulation (Nom)	Nominal Thickness of Sheath			Max Overall Dia			Current Rating AC		Max. Conductor Resistance at 20°C (Max)
			2 Core	3 Core	4 Core	2 Core	3 Core	4 Core	Single Phase DC	Three Phase	
SQ. MM	MM	MM	MM	MM	MM	MM	MM	MM	AMPS	AMPS	OHMS
1.5	3/0.81	0.7	1.2	1.2	1.3	9.4	10.2	11.5	12	11	18.10
2.5	7/0.71	0.8	1.3	1.3	1.3	10.9	11.8	13.3	17	15	12.10
4.0	7/0.92	0.8	1.3	1.3	1.4	12.0	13.0	14.6	23	19	7.41
6.0	7/1.06	0.8	1.4	1.4	1.4	13.7	14.8	16.7	29	24	4.61
10.0	7/1.35	1.0	1.5	1.5	1.6	16.5	17.8	20.0	40	33	3.08
16.0	7/1.70	1.0	1.5	1.6	1.6	18.9	20.4	22.9	54	46	1.91
25.0	7/2.14	1.2	1.6	1.7	1.8	22.1	23.8	26.8	69	58	1.20

ALUMINIUM MULTICORE SOLID ROUND CABLES

Nominal Cross Sectional area of conductor	Number Nom. Dia of cond. strands	Thickness of Insulation (Nom)	Nominal Thickness of Sheath			Max Overall Dia			Current Rating AC		Max. Conductor Resistance at 20°C (Max)
			2 Core	3 Core	4 Core	2 Core	3 Core	4 Core	Single Phase DC	Three Phase	
SQ. MM	MM	MM	MM	MM	MM	MM	MM	MM	AMPS	AMPS	OHMS
1.5	1/1.40	0.7	1.2	1.2	1.3	9.4	10.2	11.5	12	11	18.10
2.5	1/1.78	0.8	1.3	1.3	1.3	10.9	11.8	13.3	17	15	12.10
4.0	1/2.24	0.8	1.3	1.3	1.4	12.0	13.0	14.6	23	19	7.41
6.0	1/2.76	0.8	1.4	1.4	1.4	13.7	14.8	16.7	29	24	4.61
10.0	1/3.57	1.0	1.5	1.5	1.6	16.5	17.8	20.0	40	33	3.08

*The conductor is made from electrolytic grade aluminium conforming to IS 8130-2013.
The insulation is of type A or type C as per IS 5831-2013, as per specifications.
Elmeck's range of aluminium has full gauge.
PVC is unbreakable and remains intact when used on loads as per IS 3961(Pt-V)-1968 specifications.

RoHS

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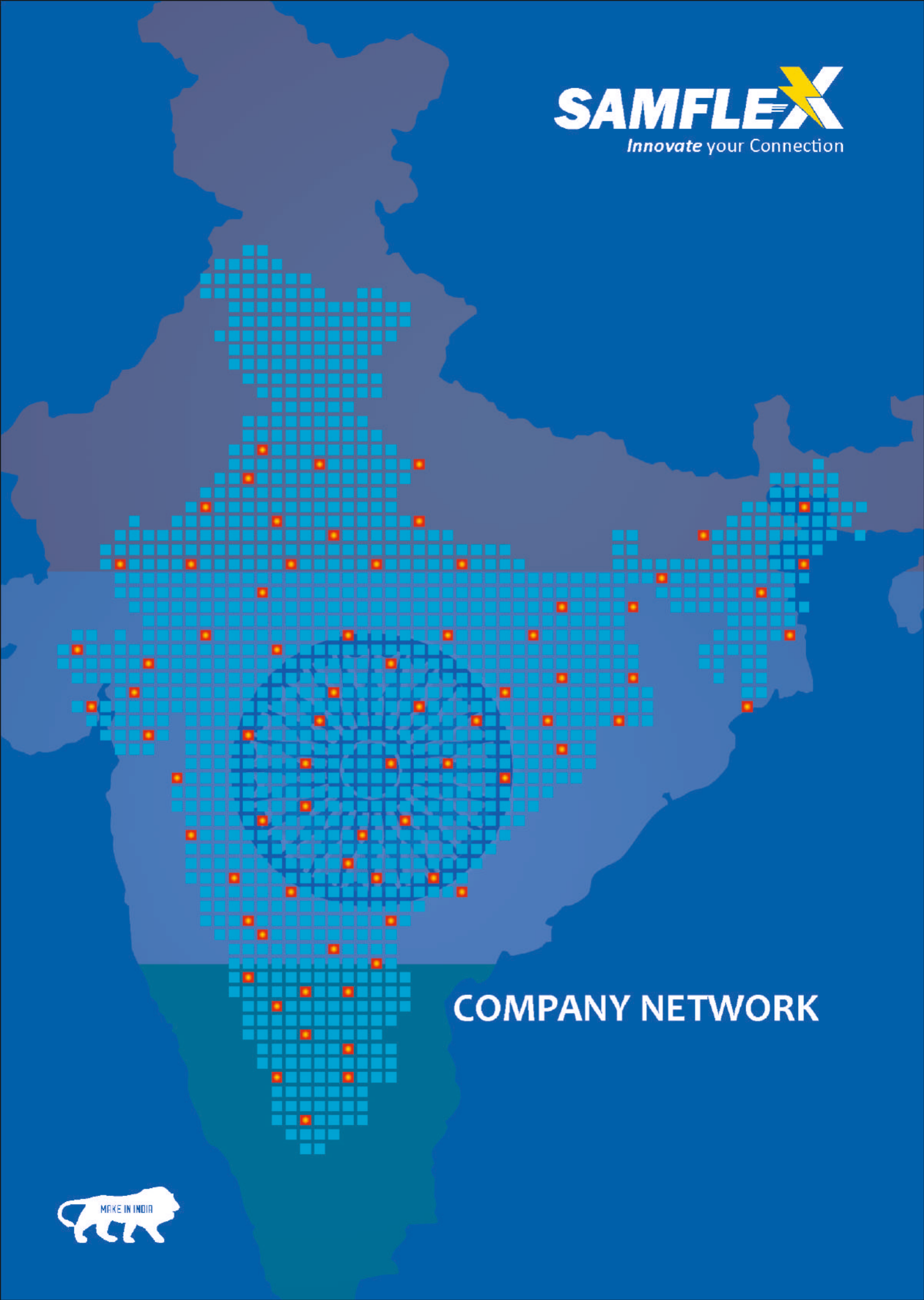

COMPANY NETWORK

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