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SAFEGUARDING DREAMS, securing lives.



NOVEMBER 2022

Secure a million
memories in your beautiful spaces.



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SINCE
1970

प्रचलित जीवन का सार

"कलर्स" में, गुणवत्ता पर हमारा बेजोड़ फोकस, निष्पादन में सूक्ष्मता और विविध श्रेणी ने हमें उद्योग में सबसे आगे स्थापित करने में मदद की है। आज हम अंतर्राष्ट्रीय गुणवत्ता वाले उत्पादों के निर्माता होने में गर्व महसूस करते हैं, जिनकी कल्पना, डिज़ाईन एवं निर्मितता भारत में ही की गई है।

यह बात १९७० की है जब "कलर्स" ने एक छोटी सी व्यापारिक कंपनी को स्थापित किया, जो कि इलेक्ट्रीकल वायरींग एक्सेसरीज़ में व्यापार करती थी। अपनी कार्यप्रणाली के दौरान इस समूह ने धीरे-धीरे घरों, कार्यलयों, कारखानों, हवाई अड्डो और होटलों के लिए इलेक्ट्रीकल स्विचीस और एक्सेसरीज़ उत्पादन के क्षेत्र में अपने कदम रखे। आज, "कलर्स" ने हर बाजार खंड के लिए सभी प्रकार के स्विच, सॉकेट, एक्सेसरीज़, एमसीबी, एलईडी लाईटींग, प्लग टॉप, वायर, लैम्प होल्डर, डोर बेल, माउंटिंग बॉक्स और घर स्वचालन उत्पाद के निर्माण से उद्योग जगत में अपना एक स्थान बनाया है।

५ अत्याधुनिक उत्पादन प्लांट्स, १२ डिपो, ५००० से अधिक चैनल पार्टनर्स, १५०० से ज्यादा कर्मठ कर्मचारियों और ५००० से ज्यादा प्रोडक्ट्स के साथ "कलर्स" पूरे भारत में मौजूद है और अनगिनत लोगों को विश्वस्तरीय उत्पाद प्रदान कर रहा है।

गुणवत्ता, परिष्कार और शैली का अनुसरण हमें उद्योग के शीर्ष की ओर ले जाता है। हमारे उत्पादों की विस्तृत श्रृंखला कुछ ऐसा प्रदान करती है जो जीवन की हर शैली के अनुरुप हो। हमारी नई खोज, अग्रणी दृष्टिकोण और प्रवीणता ने हमें विश्व स्तरीय गुणवत्ता वाले उत्पाद प्रदान करने में मदद की हैं, जो भव्य जीवनशैली और विशेष श्रेणी को दर्शाती है। हमारे प्रयासों का नतीजा वास्तव में पुरस्कृत हुआ है जैसे – भारत डिजाइन मार्क से दो बार सम्मानित होना।

The essence of **stylish living**

At Kolors, our unmatched focus on quality, finesse in execution and varied range has helped us establish ourselves at the forefront of the industry. Today, we hold great pride in being the creators of international quality products that are conceived, designed and manufactured in India.

It was in the year 1970 when Kolors was established as a small trading company that traded electrical wiring accessories in India. During its course, the company gradually laid its foot in the arena of manufacturing electrical switches and fixtures for homes, offices, factories, airports and hotels. Today, Kolors has made a mark in the industry by manufacturing all types of switches, sockets, accessories, MCBs, LED Lighting products, plug tops, wires & cables, lamp holders, doorbells, distribution boxes, home automation and mounting boxes for every imaginable market segment.

With 5 state-of-the-art manufacturing plants, 12 Depots, 5000 plus Channel Partners, more than 1500 plus strong workforce and more than 5000 products, Kolors has achieved a pan-India presence making international standard products accessible to a sizeable audience.

The pursuit of quality, sophistication and style drives us in our journey towards the peak of the industry. With a wide range of products, we offer something that would suit every style of living. Our innovation-led approach and proficiency have helped us provide world-class quality products that reflect grandeur living and sheer class. The outcome of our endeavour has been truly rewarding – being honoured with the India Design Mark twice.

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*AWARDED BY INDIA DESIGN COUNCIL -
AN AUTONOMOUS BODY
UNDER MINISTRY OF COMMERCE AND INDUSTRY,
GOVERNMENT OF INDIA

GOOD DESIGN INDIA DESIGN MARK awarded in 2017

GOOD DESIGN INDIA DESIGN MARK awarded in 2019

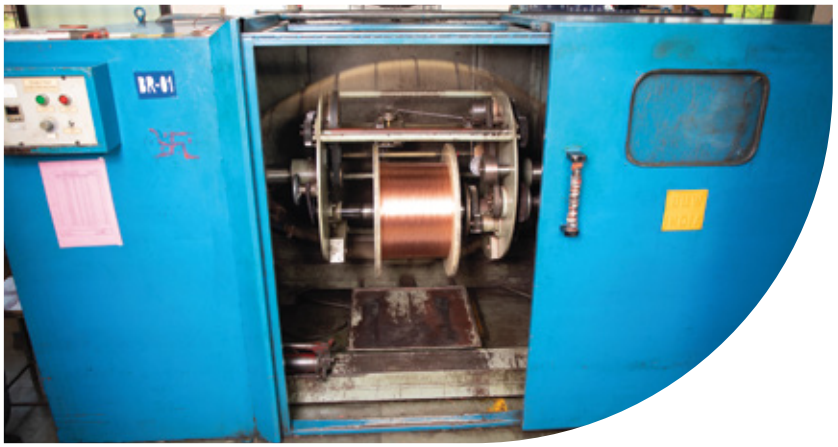












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The company has a state-of-the-art manufacturing plant at Kala Amb (H.P.) which started operations in 2010. The plant employs the latest technology and manufacturing facilities such as:

- Rod Break Down Machine.
- Fine Wire Drawing Machine.
- High Speed Dual Head Extrusion Line.
- Automatic Online Critical Diameter Controller.
- Double Twist High Speed Bunching.
- Automatic High Speed Coiling.

This is supported by a full-in house product development division which continuously innovates and improves various products, processes and their safety features. Copper used in Kolors Wires & Cables is high grade electrolytic copper.

Introducing
KOLORS
enwire

HR-FR-LSH-LEAD FREE PVC INSULATED SINGLE CORE MULTI-STRAND COPPER UNSHEATHED CABLE

A revolution in cabling intended to protect the environment and your spaces. Electric cables that guarantee power efficiency, higher protection, and environmental friendliness are more important than ever in today's world. For all of these issues, Kolors enwire is the ideal solution. Made from lead-free, non-carcinogenic raw material that complies with RoHS and REACH regulations and releases fewer harmful gases in the event of a major fire. Applications include power delivery to all electrical equipment (lights, fans, appliances, etc.) and energy cable for internal electrification.

Nominal Conductor Area	No. & Nominal Diameter of Wire	Nominal Thickness of Insulation	Max. Overall Diameter	Current Carrying Capacity 2 Cables, Single Phase		Max. Resistance At 20°C As Per IS : 8130
				In Conduit/Trunking	Unenclosed-Clipped Directly to Surface or on Cable Tray	
(mm2)	(Wire No./mm)	(mm)	(mm)	(A)	(A)	(Ohms / km)
0.50	16 / 0.2**	0.60	2.15	3	4	39.0
0.75	24 / 0.2**	0.60	2.30	8	9	26.0
1.0	14 / 0.3*	0.70	2.70	13	14	18.10
1.50	22 / 0.3*	0.70	3.00	16	18	12.10
2.50	36 / 0.3*	0.80	3.70	20	24	7.41
4.0	56 / 0.3**	0.80	4.10	26	30	4.95
6.0	84 / 0.3**	0.80	4.60	33	38	3.30

*As per conductor class-2 of IS 8130
**As per conductor class -5 of IS 8130

Standard Colours: Red, Yellow, Blue, Green, Black, Grey & White
PACKING: 90 meter in box & 200 meter in polybag

HR-FR-LSH-LF

Heat Resistance | Flame Retardant | Low Smoke | Lead-free

Temperature Rating 85°C

RoHS Compliant | REACH Compliant | CPR Compliant | Anti-Rodent Anti-Termite | Higher Insulation Resistance

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Protecting a greener world.



FLAME RETARDANT LOW SMOKE WITH REDUCED HALOGEN PVC INSULATED SINGLE CORE MULTI-STRAND COPPER UNSHEATHED CABLE (FR-LSH)

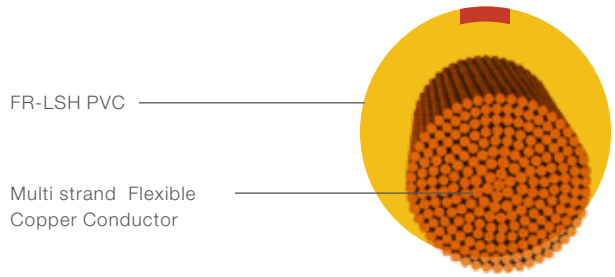
PRODUCT FEATURES

- Conductor: Electrolytic grade bright annealed copper.
- Insulation: FR-LSH grade PVC.
- Oxygen Index: Minimum 29%.
- Temperature Index: Minimum 250^{0}C at 21% Oxygen Index.
- Smoke Density: Less than 60%.
- Halogen acid gas evolution: Less than 20%.
- Insulation Colour: Red, Yellow, Blue, Green, Black
- From 0.50mm^2 upto 240mm^2 .



APPLICATION RANGE

- Suitable for installation on wall surface or in concealed conduits.
- For lighting & power application in buildings-residential, commercial, hotels, hospitals & IT parks.





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FR-LSH PVC INSULATED SINGLE CORE MULTI-STRAND COPPER UNSHEATHED CABLE

Product Code	Nominal Cross Sectional Area of Conductor (mm2)	Numbers/Nominal diameter of strands (mm)	Nominal Thickness of Insulation (mm)	Approximate Overall Diameter of Cable (mm)	Maximum Resistance at 20°C (Ohm/km)
6410180	1.0	14/0.3*	0.70	2.70	18.10
6415180	1.50	22/0.3*	0.70	3.00	12.10
6425180	2.50	36/0.3*	0.80	3.70	7.41
6440180	4.0	56/0.3**	0.80	4.10	4.95
6460180	6.0	84/0.3**	0.80	4.60	3.30
64100180	10.0	80/0.4**	1.00	6.00	1.91
64160180	16.0	126/0.4**	1.00	7.00	1.21
64250180	25.0	196/0.4**	1.20	9.00	0.780

*As per conductor class-2 of IS 8130
**As per conductor class -5 of IS 8130

PACKING: 180 meter in polybag.
*Bigger lengths and special colours are available on demand.



FLAME RETARDANT PVC INSULATED SINGLE CORE MULTI-STRAND COPPER UNSHEATHED CABLE (FR)

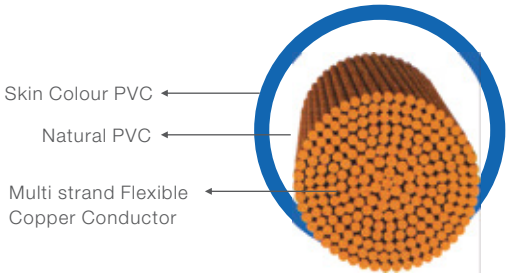
PRODUCT FEATURES

- Conductor: Electrolytic grade bright annealed copper.
- Insulation: FR grade PVC (RoHS).
- Oxygen Index: Minimum 29%.
- Temperature Index: Minimum 250^{0}C at 21% Oxygen Index.
- Insulation Colours: Red, Yellow, Blue, Green, Black, Grey, White.
- Size: From 0.50 mm^2 upto 240 mm^2.



APPLICATION RANGE

- Suitable for installation on wall surface or in concealed conduits.
- For lighting & power application in buildings-residential, commercial, hotels, hospitals & IT parks.





FR PVC INSULATED SINGLE CORE MULTI-STRAND COPPER UNSHEATHED CABLE

Product Code	Nominal Cross Sectional Area of Conductor (mm^2)	Number/Nominal diameter of strands (mm)	Nominal Thickness of Insulation (mm)	Approximate Overall Diameter of Cable (mm)	Maximum Resistance at 20°C (Ohm/km)
240590 2405180	0.50	16/0.2**	0.60	2.15	39.0
2407590 24075180	0.75	24/0.2**	0.60	2.30	26.0
241090 2410180	1.0	14/0.3*	0.70	2.70	18.10
241590 2415180	1.50	22/0.3*	0.70	3.00	12.10
242590 2425180	2.50	36/0.3*	0.80	3.70	7.41
244090 2440180	4.0	56/0.3**	0.80	4.10	4.95
246090 2460180	6.0	84/0.3**	0.80	4.60	3.30
2410090 24100180	10.0	80/0.4**	1.00	6.00	1.91
2416090 24160180	16	126/0.4**	1.00	7.00	1.21
2425090 24250180	25	196/0.4**	1.20	9.00	0.780

*As per conductor class-2 of IS 8130
**As per conductor class -5 of IS 8130

PACKING: 90 meter in box,180 meter in polybag.
*Bigger lengths and special colours are available on demand.



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KOMET

FLAME RETARDANT PVC INSULATED SINGLE CORE MULTI-STRAND COPPER UNSHEATHED CABLE (FR)

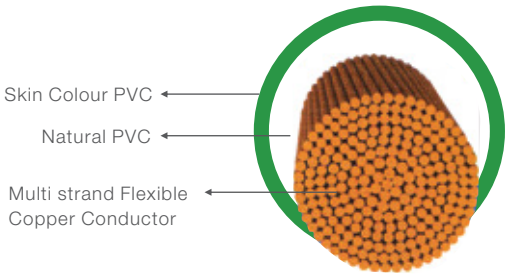
PRODUCT FEATURES

- Conductor: Electrolytic grade bright annealed copper.
- Insulation: FR grade PVC (RoHS).
- Oxygen Index: Minimum 29%.
- Temperature Index: Minimum 250^{0}C at 21% Oxygen Index.
- Insulation Colours: Red, Yellow, Blue, Green, Black, Grey, White.
- Size: From 0.50 mm^2 upto 240 mm^2



APPLICATION RANGE

- Suitable for installation in concealed conduits or on wall surface.
- Suitable for power and lighting application in buildings like commercial, residential, IT parks, hotels & hospitals.



Product Code	Nominal Cross Sectional Area of Conductor (mm^2)	Number/Nominal diameter of strands (mm)	Nominal Thickness of Insulation(mm)	Approximate Overall Diameter of Cable (mm)	Maximum Resistance at 20°C
340590/3405200	0.50	16/0.2**	0.60	2.15	39.0
3407590/34075200	0.75	24/0.2**	0.60	2.30	26.0
341090/3410200	1.00	32/0.2**	0.70	2.70	18.10
341590/3415200	1.50	30/0.25**	0.70	3.00	12.10
342590/3425200	2.50	50/0.25**	0.80	3.70	7.41
244090/2440180	4.00	56/0.3**	0.80	4.10	4.95
246090/2460180	6.00	84/0.3**	0.80	4.60	3.30
2410090/24100180	10.00	80/0.4**	1.00	6.00	1.91
2416090/24160180	16.00	126/0.4**	1.00	7.00	1.21
2425090/24250180	25.00	196/0.4**	1.20	9.00	0.780

*As per conductor Class - V of IS - 8130

THREE CORE FLAT SUBMERSIBLE CABLE

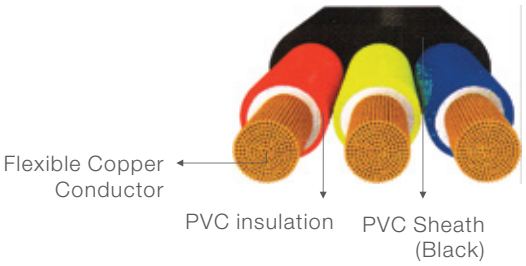
PRODUCT FEATURES

- Conductor: Electrolytic grade bright annealed copper conductor. These cables have low conductor resistance.
- Insulation: The inner cores are insulated with a special grade PVC formulated compound.
- Sheath: The tough robust outer PVC Jacket protects it from the oils, greases and various chemicals, thereby giving long life and electrical safety.
- Sheath & Insulation Colour: Black, Grey, (any other colour on demand) and core insulation is available in Red, Yellow & Blue Colours.
- Size: Range 1.50mm^2 to 10.0 mm^2



APPLICATION RANGE

- Used for supplying electrical connection to the submersible pump motors.



Product Code	13F3C15	13F3C25	13F3C40	13F3C60	13F3C100
Nominal area of copper conductor	1.50 mm^2	2.50 mm^2	4.0 mm^2	6.0 mm^2	10.0 mm^2

PACKING: 1.50, 2.50, 4.0, 6.0 mm^2 in 100 meter coil, 10 mm^2 and above in wooden drum.

*Bigger lengths and special colours are available on demand.





MULTI CORE ROUND CABLES

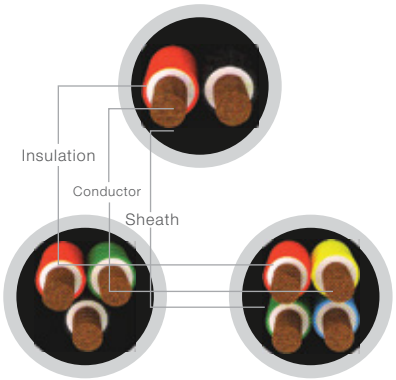
PRODUCT FEATURES

- Conductor: Electrolytic grade bright annealed copper.
- Sheath & Insulation: Flame retardant PVC Jacket with individual single core insulation.
- Sheath & Insulation Colour: Black, Grey, (any colour on demand) and core insulation is available in Red, Yellow/Green, Blue and Black as per BIS Norms.
- Size: upto 19 core with a maximum size limit of 240 mm^2.



APPLICATION RANGE

- Suitable for use in multiphase application, industrial use and for commercial uses.



No of Core	2 Core	3 Core	4 Core
Nominal area of copper conductor (mm^2)	Product Code	Product Code	Product Code
0.50 mm^2	432C050	433C050	434C050
0.75 mm^2	432C075	433C075	434C075
1.0 mm^2	432C10	433C10	434C10
1.50 mm^2	432C15	433C15	434C15
2.50 mm^2	432C25	433C25	434C25
4.0 mm^2	432C40	433C40	434C40
6.0 mm^2	432C60	433C60	434C60
10.0 mm^2	432C100	433C100	434C100

*Bigger lengths and special colours are available on demand.

PACKING: 0.50 to 6.0 mm^2 in 100 meter coil.
10.0 mm2 and above in wooden drum.



Delivering the
promise of a protected tomorrow.



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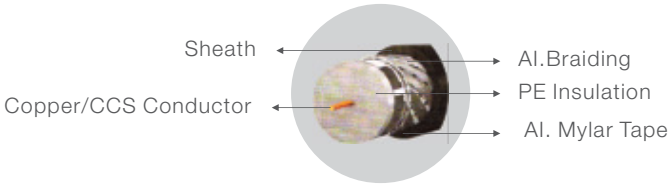
TV CO-AXIAL CABLE

- Conductor: Copper / Copper cladded steel.
- Insulation: Gas injected foam polyethylene with outer Black PVC Jacket.
- Minimum Loss in Signal Quality- Better Reception.
- Higher bandwidth- Larger Network Expansion.
- Low Attenuation Value- Less Electromagnetic Interference.
- Minimum Structural Return Loss.
- Moisture proof - Ideal for typical conditions.



APPLICATION RANGE

- Ideal for cable TV application.





TV CO-AXIAL CABLE

CONSTRUCTION PARAMETERS		CO-AXIAL CABLE TYPE		
		33CCS100, 33CCS305 33CU100, 33CU305	31CCS100, 31CCS305 31CU100, 31CU305	32CCS100, 32CCS305, 32CU100, 32CU305
		RG 59	RG 6	RG 11
Inner Conductor		ABC/CCS	ABC/CCS	ABC/CCS
Conductor Nominal Diameter (mm)		0.80mm	1.02mm	1.63mm
Dielectric		Foam - PE	Foam - PE	Foam - PE
Dielectric Nominal Diameter (mm)		3.55mm	4.57mm	7.11mm
Outer Conductor	First	Bonded Aluminum Tape	Bonded Aluminum Tape	Bonded Aluminum Tape
	Second	Alloy Braiding	Alloy Braiding	Alloy Braiding
Braiding coverage Nominal - % age.		60%	60%	60%
Flooding Compound		Jelly	Jelly	Jelly
Outer Sheath or Jacket		PVC- Black	PVC- Black	PVC- Black
Jacket Nominal Diameter (mm)		5.70 mm	6.50 mm	10.0 mm

PACKING: 90 meter coil and 305 meter in wooden drum.
*Bigger lengths and special colours are available on demand.





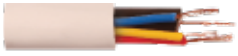
CCTV CABLE

PRODUCT FEATURES

- RG59 cable used which has the low attenuation.
- Impedance of co-axial cable is 75 ohm which matches CCTV equipment.

APPLICATION RANGE

- To be applied in close circuit camera applications in home, offices, public areas of commercial buildings and residential buildings, recommended for the use up to 750 to 1000 feet.



ELECTRICAL SPECIFICATION FOR CCTV CABLES

Inner Conductor DC Resistance	**Max 6.05 ohm/km at 20°C**
Capacitance (Nominal)	**53.0 pF/m**
Characteristics Impedance	**75 ± 3 ohm**
Structural Return Loss	**Min 15 dB @ 1-1000 MHz**
Nominal Velocity Ratio	**85 %**

PERFORMANCE DATA FOR CCTV CABLE

FREQUENCY (MHz)	Maximum Attenuation (dB/100 m) at 20°C
55 MHz	6.73
187 Mhz	11.81
300 Mhz	14.60
550 Mhz	19.52
750 Mhz	22.87
865 Mhz	24.67
1000 Mhz	26.64

CCTV CABLE

CABLE TYPE - 3+1 / 4+1 CCTV CABLE			
PRODUCT CODE		**501531 / 501541**	**502531 / 502541**
CONSTRUCTION	**MATERIAL UNIT**	**3+1 CCTV CABLE**	**4+1 CCTV CABLE**
A. POWER CABLE - Carrier for Power.			
1.Cable Size	No. of core x Area or Dia	3 Core x 0.15 mm2	4 Core x 0.15 mm2
2.Conductor	ABC / ATC	ABC	ABC
a.No. of Strand	Nos	14	14
b.Nom. Strand Diameter	mm	0.100	0.100
3.Insulation	HDPE / PVC - Insulation	PVC - Insulation	PVC - Insulation
a.Nom. Insulation Thickness	mm	0.50	0.50
b.Insulation Overall Dia. (Nom.)	mm	1.40	1.40
c.Colour Code	Colour	Red, Yellow & Blue	Red, Yellow, Blue & Brown
B. CO-AXIAL CABLE - Carrier for Video Signal.			
1. Inner Conductor		Solid Bare Copper - ABC	
a.Nom. Conductor Diameter		0.60 mm	
2. Dielectric		Gas Injected Physical Foamed Polyethylene	
a. Nom. Diameter		2.50 mm	
b. Nom. Thickness		0.50 mm	
3. Outer Conductor - First		Bonded Aluminium Tape	
a. Nom. Thickness / Nom. width		0.050 mm / 15 mm	
4. Outer Conductor - Second		Aluminium Alloy Braiding	
a. Braiding Wire Dia. (Nom.)		0.115 mm	
b. Braiding Coverage (Nom.)		60 %	
5. Flooding Compound		Jelly	
6. Co-Axial Outer Sheath or Jacket		PVC - Sheath	
a. Sheath Colour		Black	
b. Overall Diameter		Approx. 3.00 mm	
7. Overall Outer Sheath		PVC - Sheath	
a. Sheath Colour		White/Orange	
b. Nom. Sheath Thickness		0.70 mm	

PACKING: 90 meter coil.
*Bigger lengths and special colours are available on demand.

KO KONNECT
NETWORKING CABLE



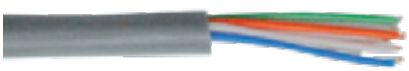
TELEPHONE CABLES

PRODUCT FEATURES

- Conductor: Electrolytic grade, bright annealed copper conductor.
- Insulation: HDPE/PVC insulation with High Dielectric constant
- Jacket: Jacketed with a specially formulated PVC compound having FR properties.
  A nylon rip cord provides an effective means of slitting the Jacket without damaging the insulation.
- Low attenuation and low cross talk.

APPLICATION RANGE

- Best suited for all telephone switch board applications in high rise buildings, offices, factories, hotels, hospitals, residential complexes etc.



TELEPHONE CABLES

KO KONNECT NETWORKING CABLE

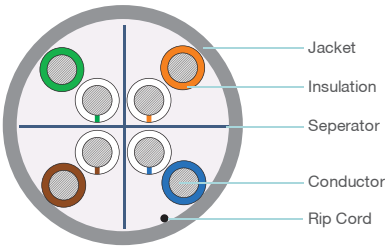
TYPE OF CABLE								
PRODUCT CODE		23041 Pair 23051 Pair	23042 Pair 23052 Pair	23043 Pair 23053 Pair	23044 Pair 23054 Pair	23045 Pair 23055 Pair	23046 Pair 23056 Pair	230410 Pair 230510 Pair
PARAMETERS		1 Pair	2 Pair	3 Pair	4 Pair	5 Pair	6 Pair	10 Pair
Conductor		Solid Annealed High Conductivity Bare Copper Conductor with Nominal Diameter of 0.50 mm & 0.40 mm.						
Insulation Material		High Density Polyethylene/PVC compound for both 0.40 mm & 0.50 mm Conductor.						
Insulation Thickness - Average		For, 0.40 mm Conductor - Avg. 0.17 mm & for, 0.50 mm Conductor - Avg. 0.20 mm.						
Dia. of insulated Conductor		For, 0.40 mm Conductor - Avg. 0.74 mm & for, 0.50 mm Conductor - Avg. 0.92 mm.						
Rip Cord		For both 0.40 & 0.50 mm Conductor, a Triple Layer Nylon Ripcord is used.						
No. of Pairs		1 Pair	2 Pair	3 Pair	4 Pair	5 Pair	6 Pair	10 Pair
Approx. Overall Outer Dia. (mm)	For 0.40 mm Dia.	**2.40**	**3.10**	**3.50**	**3.90**	**4.30**	**4.70**	**6.20**
	For 0.50 mm Dia.	**3.10**	**3.90**	**4.20**	**5.10**	**5.60**	**5.90**	**8.20**
Conductor Resistance (Max.) at 20°C - Ohms/Km		For, 0.40 mm Conductor - 143 Ω/km.			For, 0.50 mm Conductor - 92.20 Ω/km.			

COLOUR COMBINATION FOR DIFFERENT PAIRS							
No. of Pairs	1 Pair	2 Pair	3 Pair	4 Pair	5 Pair	6 Pair	10 Pair
1st	White-Blue	White-Blue	White-Blue	White-Blue	White-Blue	White-Blue	White-Blue
2nd	----	White-Orange	White-Orange	White-Orange	White-Orange	hite-Orange	hite-Orange
3rd	----	----	White-Green	White-Green	White-Green	White-Green	White-Green
4th	----	----	----	White-Brown	White-Brown	White-Brown	White-Brown
5th	----	----	----	----	White-Grey	White-Grey	White-Grey
6th	----	----	----	----	----	Red-Blue	Red-Blue
7th	----	----	----	----	----	----	Red-Orange
8th	----	----	----	----	----	----	Red-Green
9th	----	----	----	----	----	----	Red-Brown
10th	----	----	----	----	----	----	Red-Grey
No. of	1 x 1P	1 x 2P	1 x 3P	1 x 4P	1 x 5P	1 x 6P	1 x 10P
Colour of Unit Identification Binder - Applicable Only for multiple units to distinguish them from each other.							

PACKING: 90 meter coil.
*Bigger lengths and special colours are available on demand.

KO KONNECT
NETWORKING CABLE

LAN CABLE CAT 6



CAT 6 UTP LAN CABLE

CONSTRUCTION

Conductor	Solid Bare Electrolytic Grade Copper
Nominal Conductor Diameter	0.510mm
Insulation	Polyethylene (HDPE)
Pairing	Twisted into Two core
No. of Pair	4, Each Pair Twisted
Color Code: Pair #1 Pair #2 Pair #3 Pair #4	 Orange-White with Orange Brown-White with Brown Blue-White with Blue Green-White with Green
Outer Sheath material	PVC
Colour of Sheath	Grey
Approximate OD	5.7±0.30mm
Rip Cord	Yes
Sequential Marking	At Every Meter
Cross Filler	HDPE
Temperature Rating	-20 to +70°C

PHYSICAL CHARACTERISTICS

Installation Temperature	0 to +50°C
Storage Temperature	-20 to +75°C
Operating Temperature	-20 to +70°C

ELECTRICAL PARAMETER

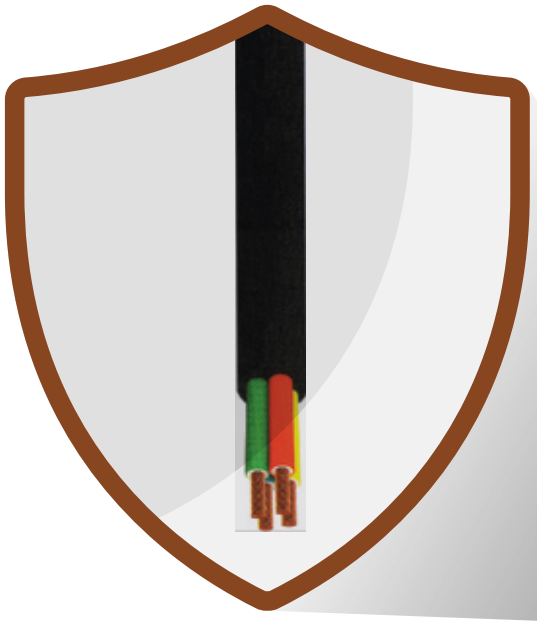
Conductor Resistance (DC)	93.8Ω/1000 mtr @20°C Max
Resistance Unbalance	5% Max
Mutual Capacitance	5.6 nf/100 mtr Max
Nvp	69%
Impedance	100±15%Ω
Worst Cable Skew	45ns/100 mtr.

HIGH FREQUENCY ELECTRICAL PARAMETER

PRODUCT CODE		5524AWG (100) 5524AWG (305)				
FREQ (MHz)	ATT (dB/100m)	NEXT (dB)	PS.NEXT (dB)	ACRF (dB@100m)	PS.ACRF (dB@100m)	Return Loss (dB/100m)
	max	min	min	min	min	
1	2.1	65.0	62.0	63.3	60.3	19.0
4	4.0	63.0	60.5	51.2	48.2	19.0
8	5.7	58.2	55.6	45.2	42.2	19.0
10	6.3	56.6	54.0	43.3	40.3	19.0
16	8.0	53.2	50.6	39.2	36.2	18.0
20	9.0	51.6	49.0	37.2	34.2	17.5
25	10.1	50.0	47.3	35.3	32.3	17.0
31.25	11.4	48.4	45.7	33.4	30.4	16.5
62.5	16.5	43.4	40.6	27.3	24.3	14.0
100	21.3	39.9	37.1	23.3	20.3	12.0
200	31.5	34.8	31.9	17.2	14.2	9.0
250	35.9	33.1	30.2	15.3	12.3	8.0

PACKING: 100 meter & 305 meter.
*Bigger lengths are available on demand.

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Adding style
to safety and reliability.

Some Important Test carried on each Lot/Batch of Cable:

1) Flammability Test: In certain locations it may be important to use a cable which retards flame in case of a fire and is self –extinguishing when the source of fire is removed. This test is therefore carried out on finished cables to verify this property. Cables undergo this test in which flame is applied for approximately 60 seconds. There should be no propagation of flame and the period of burning of cable should not exceed 60 seconds after the removal of flame.

2) High Voltage (AC) Test: The fundamental requirement of the insulation in an electric cable is that it withstands the voltage imposed on it in service; High Voltage Test (AC) helps in evaluation of the Quality of the Insulation. In this test, specimen of cable conductor is connected to high voltage source and insulation to earth, then 3 KV AC voltage is applied through Cable for 5 minutes to check Quality of Insulation.

3) Conductor Resistance Test: Accurate control of resistance is necessary to meet system design parameters. It is expressed in ohms (Ω) per kilometre. It is measured using an instrument called Wheatstone Bridge/Mili Ohm Meter.

4) Tensile Strength Test: During the process of installation, cables are subjected to mechanical stresses. This test is carried out to ensure the cables have requisite Tensile Strength. In this test sample is subjected to pull forces from both the end through automatic machine till breakage /cracks are observed in the cable.

Apart from the above mentioned, tests like Copper Purity, Insulation Resistance, Colour Fastening of Insulation Colours, Thermal Stability, Oxygen & Temperature Index Test to name a few, are part of our Quality Control System.

हमारी केबल के प्रत्येक लॉट/बैच पर होने वाले नियमित परीक्षण :

१) ज्वलन शीलता परीक्षण: कई स्थानों पर यह महत्वपूर्ण मापदंड होता है कि केबल आग की लौ को अवरुद्ध करे और जब आग का स्रोत निकाल दिया जाये तो लौ अपने आप बुझ जानी चाहिए। यह परीक्षण इस मापदंड को सत्यापित करने के लिए किया जाता है। परिक्षण के समय केबल पर लौ को लगभग ६० सेकंड तक उपयोग करने पर यह देखा जाता है कि लौ आगे बढती है या नहीं और ६० सेकंड में बुझ जाती है या नहीं।

२) उच्च वोल्टेज (ए सी) परीक्षण: बिजली के केबल में इन्सुलेशन की मौलिक आवश्यकता है कि वह उपयोग के दौरान वोल्टेज के उतार चढाव को सहन करने की क्षमता रखता हो। इस परिक्षण में केबल के कंडक्टर को उच्च वोल्टेज के स्रोत से और इन्सुलेशन को अर्थ पॉईन्ट से जोड़ा जाता है। एक ३के वी ए सी वोल्टेज का ५ मिनट तक केबल पर प्रयोग किया जाता है और कंडक्टर-इन्सुलेशन के बीच की लीकेज करंट को नापा जाता है। यह परीक्षण केबल इन्सुलेशन की गुणवत्ता की जांच में बहुत उपयोगी होता है।

३) कंडक्टर प्रतिरोध परीक्षण: प्रतिरोध का सटीक नियंत्रण, प्रणाली के डिजाईन मानकों को पूरा करने के लिए आवश्यक है। यह ओहम (Ω) प्रति किलोमीटर में व्यक्त किया जाता है। इसे नापने के लिए व्हीटस्टोन ब्रीज /मिली ओहम मीटर का प्रयोग किया जाता है।

४) लचीलेपन की शक्ति का परीक्षण: स्थापना की प्रक्रिया के दौरान केबल तनाव के अधीन रहता है। इस परीक्षण द्वारा केबल के अपेक्षित तन्यता, ताकत एवं लचीलेपन को सुनिश्चित किया जाता है । इस परीक्षण में नमुने को स्वचालित मशीन द्वारा दोनों छोर पर बल देकर खींचा जाता है जब तक दरारें नजर न आएं।

ऊपर लिखे परीक्षणों के साथ, कॉपर शुद्धता, इन्सुलेशन प्रतिरोध, इन्सुलेशन रंगों के रंग बंधन, थर्मल स्थिरता, ऑक्सीजन और तापमान सूचकांक . जैसे परीक्षण हमारे गुणवत्ता नियंत्रण प्रणाली का हिस्सा है।

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