

BRIDGING THE GAP ACROSS 60 DIFFERENT COUNTRIES

THE POWER BEHIND THE POWER



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KEI Industries Limited

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CCTV Cables

Telephone Cables







CAT 6 UTP Cables



Co-Axial Cables



COMMUNICATION CABLES

ENABLING SUPERFAST COMMUNICATIONS



CMD'S MESSAGE

KEI Industries, an Indian MNC founded in 1968, is a global leader in wire and cable solutions having an extensive range of world-class products an d services. With multiple robust & cutting edge manufacturing facilities and a vast network of more than 30,000 channel partners, KEI serves clients in 65+ countries, establishing itself as a one-stop-shop for comprehensive wire and cable solutions. The company achieved a turnover of INR 8000+ crore in the fiscal year 2023-24.

As the world faces the pressing challenges of global warming and climate change, KEI Industries is dedicated to leading the way towards a sustainable and a carbon-neutral future. Our

dedication involves using clean gas and solar energy, alongside advanced air and water treatment systems, to eliminate hazardous chemicals and ensure a safe, sustainable environment. Our diverse array of products also reflects our strong commitment towards building an eco-friendly efficient surrounding. With an ongoing focus on innovation, KEI is positioned to lead in sustainability while meeting the demands of global consumers through using cutting-edge technologies, driving progress and setting new standards for environmental responsibility.

Empowering the next-gen of superfast communication



STATE OF THE ART MANUFACTURING 5 UNITS









BHIWAD RAJASTHAN

CHOPANKI RAJASTHAN

PATHREDI RAJASTHAN

RAKHOL DADRA AND NAGAR HAVFI I

CHINCHPADA DADRA AND NAGAR HAVELI

BUILDING THE NATION...! PRESTIGIOUS PROJECTS WIRED BY KEI



WORLD'S TALLEST STATUE OF UNITY



PARLIAMENT OF INDIA





















Co-Axial Cables

KEI's co-axial cables, RG59, RG6 & RG11 used in the transmission of RF signals and power for voice, data and video applications. The double-shield coaxial cable protects signals from external electromagnetic interference & solid electrolytic grade 99.97% pure copper conductor offers superior electrical performance meeting all requirements of CATV, DTH, Broadband, Digital & Analog signal applications.

Our co-axial cables are Special International Digital Designed for transmission of high frequency signals with minimum loss for DTH, Institute and Digital Headend etc. The various configurations of our cables are solid copper center conductor and also available in Copper Clad Steel (CCS), Polyethylene Foam PE, Aluminium laminated tape to provide 100% coverage, Aluminium alloy wire braids to give additional mechanical strength, Flooding Compound jelly to provide internal corrosion & water resistance properties and PVC cover to give environmentally secured safe seal to the construction. Cables tested on 3.0 Ghz spectrum analyzer.

1	a) Cable Size & Type b) Construction Details	RG5 Electroly insulatio braid, Jel	tic grade so n, with lamin ly flooded an	lid bare co ated alumi d PVC Jacke	RG6 opper cond nium tape ting in Blac	ductor, foai and Alumir k colour.	RG11 m polyethylene nium Alloy Wire
2	CONDUCTOR a) Cross Sectional Area b) Diameter (Approx)	Solid An conducto 0.81	nealed Bare l or. Also availa mm	Electrolytic ble in Copp 1	Grade Tou, per Clad Ste .02mm	gh Pitch (ET eel - <mark>RG 6 CCS 8</mark>	P) Copper (CU) RG 11 CCS 1.63mm
3	DIELECTRIC a) Material b) Core Diameter (Approx)	3.60	mm	Physic 4	cal foam PE . 60mm		7.10mm
4	SHIELD CONSTRUCTIONS a) 1st Shield b) 2nd Shield	A	luminium allo	Bond by wire braid	ed Al tape d with Mini	mum 60% c	overage.
5	FLOODING COMPOUNDS a) Material				Jelly		
6	OUTER SHEATH (JACKET) a) Material b) Colour c) Nominal O.D of cable	6.10	mm	Extru 6	uded PVC Black .93mm		10.16mm
	0THER DATA a) Bending radius, Minimum b) Packing Length	40m 100/305 N	im /ltr Coil	7 100 mtr Co	/0mm il/305 Mtr Sp	bool 100 r	80mm ntr Coil/305 Mtr Spool
A	DACTEDICTICS		DCI	-	D	6.6	DC44

CHARACTERISTICS						
Махі	Maximum DC Resistance at 20ºC (Ohm/1					
Impe	edance (Ohm)					
Velo	city of Propagation (Vp)%					
Nom	inal Capacitance (pf/mtr)					
	Frequency(MHz)					
	5					
	55					
U	211					
20°	250					
6	270					
tior	300					
nat	330					
ten	350					
l At	400					
m	450					
xim	500					
Ma	550					
	600					
	750					
	870					
	1000					

Cable Construction

Electrical Properties

	RG59	RG6	RG11
n)	3.55	2.13	0.85
	75 ± 3	75 ± 3	75 ± 3
	Min. 82	Min. 82	Min. 82
	53	53	53
	(dB/100m)	(dB/100m)	(dB/100m)
	2.82	1.9	1.25
	6.73	5.25	3.15
	12.47	10	6.23
	13.45	10.82	6.72
	13.85	11.04	7
	14.60	11.64	7.38
	15.29	12.26	7.71
	15.75	12.63	7.94
	16.73	13.61	8.53
	17.72	14.43	9.02
	18.70	15.29	9.51
	19.52	16.08	9.97
	20.34	16.73	10.43
	22.87	18.54	11.97
	24.85	20.04	13.31
	26.64	21.49	14.27







Telephone (switch board) Cables

KEI Telephone cables are recommended for use in internal telephone wiring in high-rise buildings, offices, factories, hotels, residential complexes, etc.

KEI twisted pair cables are best suited for telephone cabling applications. The conductor is made of solid annealed, electrolytic grade high conductivity bare copper. The conductor is insulated with special grade high - density polyethylene with colour coding. The insulated cores are twisted with uniform lay to form pairs and are bunched together in such a manner so as to minimize cross talk. The cable is jacketed with a grey colour specially formulated Fire Retardant (FR) PVC with high oxygen and temperature index.

Reference Standard: ITD specifications S/WS 113C & KEI specifications



Electrical Parameters

Conductor Resistance (max.) 0hm/km at 20°C
Mutual Capacitance (max.) nf/km
Insulation Resistance in Air (min.) M-ohm/km
Capacitance Unbalance Pair to Pair (max.) Pf/km

Construction parameters	1 pair	2 pair	3 pair	4 pair	5 pair	10 pair		
Conductor (Solid Annealed Bare Copper)		0.4 mm diameter (nom.) / 0.5 mm diameter (nom.)						
Insulation Material		Extrud	ed High-Density	y Polyethylene				
Insulation Thickness (Avg.)	0.1	7 mm (for 0.4m	m Cables) / 0.2	0 mm (for 0.5m	m Cables)			
Diameter of Insulated Conductor (Maximum)	0.7	0.74 mm (for 0.4mm Cables) / 0.92 mm (for 0.5mm Cables)						
Rip Cord	Nylon cord placed under Jacket for easy Jacket Stripping							
PVC Jacket		Extruded FR PVC Compound (Grey Colour)						
Approx. Outer Diameter in mm (0.4 mm cables)	2.30	2.90	3.40	3.80	4.20	6.20		
Approx. Outer Diameter in mm (0.5 mm cables)	2.60	3.30	3.80	4.50	4.90	8.20		
Packing Length (mtrs.) 0.4mm & 0.5mm cables.	100	100	100	100	100	100		

	1 pair	2 pair	3 pair	4 pair	5 pair	10 pair
	White - Blue	White - Blue	White - Blue	White - Blue	White - Blue	White - Blue
	-	White - Orange				
NS	-	-	White - Green	White - Green	White - Green	White - Green
COMBINATIO	-	-	-	White - Brown	White - Brown	White - Brown
	-	-	-	-	White - Grey	White - Grey
	-	-	-	-	-	Red - Blue
DUR (-	-	-	-	-	Red - Orange
COLC	-	-	-	-	-	Red - Green
Ŭ	-	-	-	-	-	Red - Brown
	-	-	-	-	-	Red - Grey

0.4 mm Dia.	0.5 mm Dia.
143.0	92.20
50	50
10,000	10,000
250	250







CAT 6 UTP Cables

Applications

KEI CAT 6 UTP cables meet the requirements of ANSI/TIA-568-C.2 having enhanced performance for transmission of high speed data signals on LANs. It also supports Gigabit Ethernet (1000 baseT) standard.

Features & Benefits

- Improve Crosstalk Performance: Central spline separates pairs and maintains stable pair position.
- Optimized Cable Balance: Improved balance of transmission performance for simultaneous parallel transmission protocols.

Jacket Separator Insulation Conductor Rip Cord

Cable Component	Component Material				
Conductor	Solid bare electrolytic grade copper	conductor 23AWG			
Insulation	High Density Poly Ethylene				
Packing	Available in 305 mtr spool.				
Rip Cord	Nylon Cord				
Jacket	PVC outer jacket(Dark Grey, Yellow, Blue Colour) Customized colour options as per customer requirement available.				
Cable OD	Approx. 6.0 mm				
Separator	Made of PE material				
	Wire 1	Wire 2			
Pair 1	White - Orange Stripe	Orange			
Pair 2	White - Blue Stripe	Blue			
Pair 3	White - Green Stripe	Green			
Pair 4	White - Brown Stripe	Brown			

Electrical Properties - CAT-6 4 P X23 AWG UNSHIELDED CABLES

CHARACTERISTICS	
DC Resistance (20deg)	
DC Resistance Unbalanced	
Mutual Capacitance	
Capacitance Unbalance (Pr – Gr)	
Insulation Resistance	
Dielectric Strength	
Impedance - Zo (1~250MHz)	
NVP	

Construction

Colour Code

Insulation Resistance										
Dielectric Strength		1/1 DC kV/min								
Impedance - Zo (1~250MH	100 +/- 15 Ω									
NVP			69%							
	Freq (MHz)	RL(min.)	ATT (max)	NEXT (min.)	PSNEXT (min.)	ELFEXT(min.)	PSELFEXT (min.)	TCL (min.)	ELTCTL (min.)	
RL - Return Loss	1	20	2.03	74.3	72.3	67.8	64.8	40	35	
	4	23	3.78	65.3	63.3	55.8	52.8	40	23	
Att - Attenuation	8	24.5	5.32	60.8	58.8	49.7	46.7	40	16.9	
NEXT – Pair To Pair Near End Cross Talk	10	25	5.95	59.3	57.3	47.8	44.8	40	15	
PSNEXT – Power Sum Near	16	25	7.55	56.2	54.2	43.7	40.7	38	10.9	
End Cross Talk	20	25	8.47	54.8	52.8	41.8	38.8	37	9	
ELFEXT – Pair To Pair Equal	25	24.3	9.51	53.3	41.3	39.8	36.8	36	7	
Level Far End Cross Talk	30	-	-	-	-	-	-	-	5.5	
PSELFEXT – Power Sum Equal Level Far End Cross Talk	31.25	23.6	10.67	51.9	49.9	37.9	34.9	35.1	n/s	
	62.5	21.5	15.38	47.4	45.4	31.9	28.9	32	n/s	
TCL-Transverse conversion loss	100	20.1	19.8	44.3	42.3	27.8	24.8	30	n/s	
ELTCTL-Equal level transverse	200	18	28.98	39.8	37.8	21.8	18.8	27	n/s	
conversion transfer loss	250	17.3	32.8	38.3	36.3	19.8	16.8	26	n/s	
Propagation Dolay (Max)	1 MHz	570 ns/100m								
FTOpagation Delay (wax)	250 MHz	536 ns/100m								
	1 MHz				45 ns	/100m				
Propagation Delay Skew (Max)	10 MHz				45 ns	/100m				
between pairs from values	100 MHz				45 ns	/100m				
	250 MHz				45 ns	/100m				

Max 9.38 Ohm/100m Max 5.0 % Max 5.6 nF/100m Max 330 pF/100m





CCTV Cables

This CCTV 3+1, 4+1 construction cable is of hybrid type with combination of Communication and Electrical conductors. The 4 power cores enable powering of the CCTV camera. This cable used for combination of communication and electrical supply to CCTV Cameras & due to its composite component nature it allows CCTV installations tidy & provides lossless out . The communication cable (RG 59 Co-Axial Cable) is used for recording the images by the camera and to communicate with the data center. Co-axial cables are designed to transmit the complete video frequency range with minimum distortion or attenuation, making them an excellent choice for CCTV. The 4 number of wires in this CCTV cables are used for powering the cameras.



INNER CONDUCTOR	
Material	
Diameter	
DIELECTRIC	
Material	
Diameter	
SHIELD	
1st Shield	
2nd Shield	
Coverage	
JACKET	
Material	
Diameter	
Bending Radius	

Inner Conductor dc Resistance Capacitance (Nom.) Characteristic Impedance Structural Return Loss Nominal Velocity Ratio

FREQUENCY	Max. Attenuation (db/100 m) at 20ºC
55 MHz	6.73
211 MHz	12.47
300 MHz	14.60
550 MHz	19.52
750 MHz	22.87
870 MHz	24.85
1000 MHz	26.64

	INSULATED POWER CORES										
No. of Cores	Conductor Diameter (Nom.) Solid or Flexible Bare Annealed Copper	Insulation Material	Core Diameter	Colour Codes	Overall Jacket (PVC) White	Overall Diameter					
3	1/0.5mm OR 1/0.188	High Density Polythene	0.9 mm	Red, Yellow, Blue	PVC ST1 Conforming to IS 5831	8.0mm max.					
4	1/0.5mm OR 1/0.188	High Density Polythene	0.9 mm	Red, Yellow, Blue, Black	PVC ST1 Conforming to IS 5831	8.0mm max.					

Solid Bare Copper 0.81 mm (approx.)

Physical Foam Polyethylene 3.60 mm (approx.)

Bonded Aluminium Tape Aluminium Alloy Braid Min. 60%

> PVC (Black) 6.10 mm (approx.) 40 mm (approx.)

ELECTRIC DATA

Max. 3.55 Ω/Km at 20°C 53.0 pF/m 75 ± 3 ohm Min. 15 dB @ 1 – 1000 MHz Min. 82%

PERFORMANCE