



Infrastructure

Telecom

Communication

Transformation

Trust and Business

Connectivity

IT



TRANSFORMING COMMUNICATIONS

RPG CABLES





Group Revenues: USD3.5 billion
Over 20,000 employees
Footprint in over 100 countries

INFRASTRUCTURE



INFORMATION TECHNOLOGY



TYRES



SPECIALITY





An Indian multinational
infrastructure EPC major

Over 7 decades of experience

Leadership in Power Transmission EPC

Project footprint in over 100 countries

7 manufacturing facilities in India,
Brazil and Mexico

Revenue: USD1.4 billion

Over 5400 employees



Cables



Power – T&D



Railways



Renewables
(Solar)



Civil

MYSORE FACILITY

KEC is one of the leading manufacturers of Power & Telecom cables in India. Its state-of-art Telecom manufacturing facility located in Mysore (Karnataka) is accredited with ISO 9001, ISO 14001 and OHSAS 18001 certifications. It has a diverse clientele across industries including Telecom, Processing Industries, Engineering etc. The company is also amongst the leading Indian exporters of cables. The company is well equipped with testing facilities as per various national and international specifications.



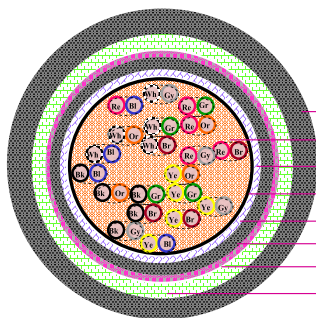
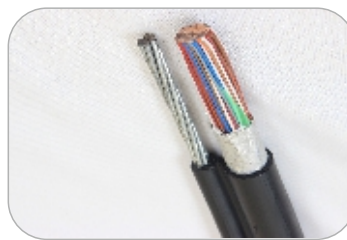


COPPER TELECOM CABLES

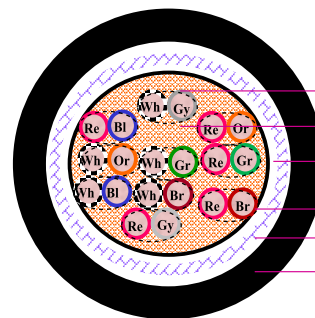
With its state-of-the-art manufacturing facility, KEC cables are set to give you the best quality copper telecom cables. The plant is equipped with world class machineries for manufacturing and testing of telecoms cables.

The manufacturing range includes

- Jelly filled and Unfilled twisted pair telephone cables
- From 2 pairs to 2400 pairs per cable
- Conductor dia: 0.4 mm; 0.5 mm; 0.63 mm; 0.65 mm, 0.8 mm, 0.9 mm etc
- Foam skin / Solid PE insulated cables
- Armoured (Direct Burial), Unarmoured (Duct) and Self supporting Aerial cables construction
- Railway Signalling and Telecommunication cables



0.5 Mm Armoured Pijf Cable



0.5 Mm Unarmoured PIJF Cable

Typical Technical Data Sheet of Copper Telecom Cable

Parameters				
Nominal Conductor Size (mm)	0.4	0.5	0.63	09
Conductor Resistance (per km in ohms.) Individual	135 ±8	86 ±6	58 ±4	28 ±2
Conductor Resistance Unbalance (Oh)				
Individual	3	2.5	2	2
Average	1.5	1	1	1
Conductor Elongation (minimum %)	15	15	18	18
Attenuation at 150 kHz (db/km)				
shall not exceed	12	8.25	6.3	4.4
Insulation	Solid (MDPE/HDPE) / Foam Skin			
Spark Test	3 KV RMS AC or 4.5 KV DC, 1 spark per 5 k.m of the insulated conductor			
Retraction of Insulation (shall not exceed)	2.5 mm after 1 min			
Resistance to Compression	200 N, 12 V DC			
Insulation Resistance at 500V DC for 1 minute	5000 Mega Ohm - Km or Higher as per customer requirement			
Construction	5/10/20/25 pair units & 25/50/100 super units of sizes 2 pair to 2400 pair			
Filling Compound	Water Resistant Compound (Petro Jelly)			
Core wrap	Polyester tape			
Moisture Barrier/Screen	Poly - Aluminium Tape			
Sheath / Jacket	LDPE			
Armouring	Galvanised Steel Tape / Corrugated Steel Tape / Steel Wire Armoured			
Armouring Bedding	PE Tape			
Mutual Capacitance (nF/KM) at 800 1000 Hz				
Individual	52 ±4.5			
Average	52 ±3			
Equal Level Far End Cross Talk (dB/Km) at 150 Khz	Better than 67.8 RMS, Indvl. 55			
Near End Cross talk (dB/Km) at 150 KHz	Better than 55 (individual value)			
Pairs	From 2 pair to 2400 pair			
Pair-pair capacitance unbalance (pF/Km) at 800-1000 Hz				
Avg	50			
Max Ind	200			
Pair-ground capacitance unbalance (pF/Km) at 800-1 000Hz				
Avg	750			
Max Ind	3000			
Dielectric Strength of insulation between conductors for 3 secs (in kV)	2.4	2.4	3.5	3.5
Dielectric Strength of insulation between shield and conductors for 3 secs (in kV)	5	5	10	10

KEC International Ltd works for continual improvement in quality for better and efficient products, specifications may change without prior notice.

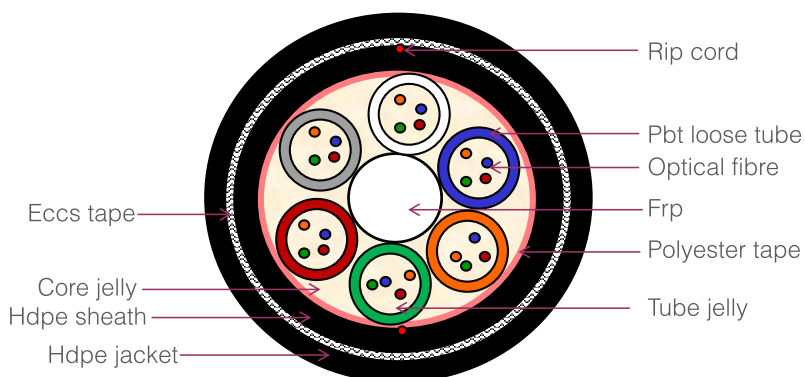
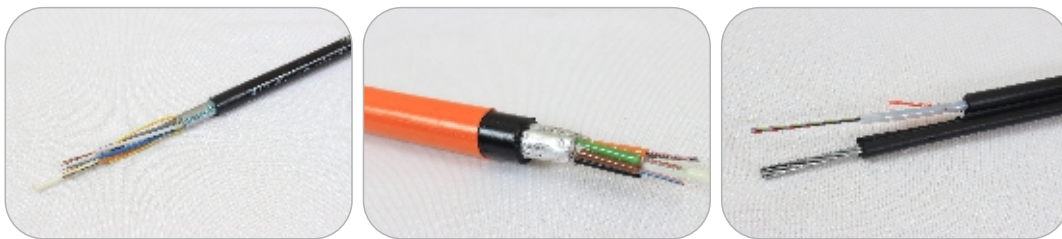
OPTICAL FIBER CABLES

RPG cables have one of the finest Optic fiber cable plant in the country manufacturing and supplying a wide range of cables, servicing the telecom industry in India and abroad.

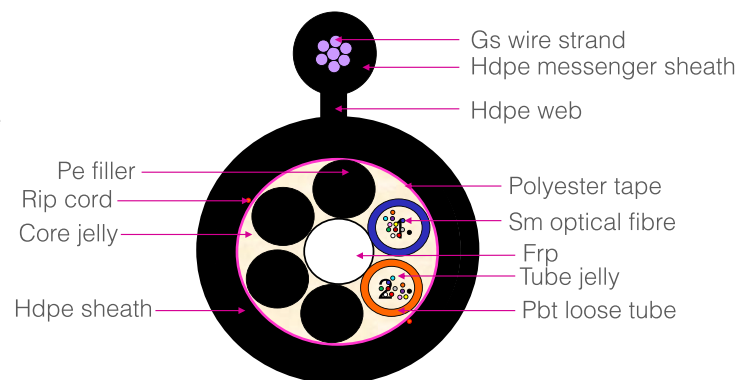
The manufacturing range includes

- Single mode / Multi mode
- Duct (unarmoured) Cables with Nylon & PE sheath
- Armoured (direct burial) Cables (Single Sheath & Double Sheath)
- Self-supporting Cables both ADSS (All Dielectric Self Supporting) and Fig 8 construction
- Uni-tube and multi-loose tube construction
- 2 fibers to 288 fibers cables
- Custom made cables as per customer specifications

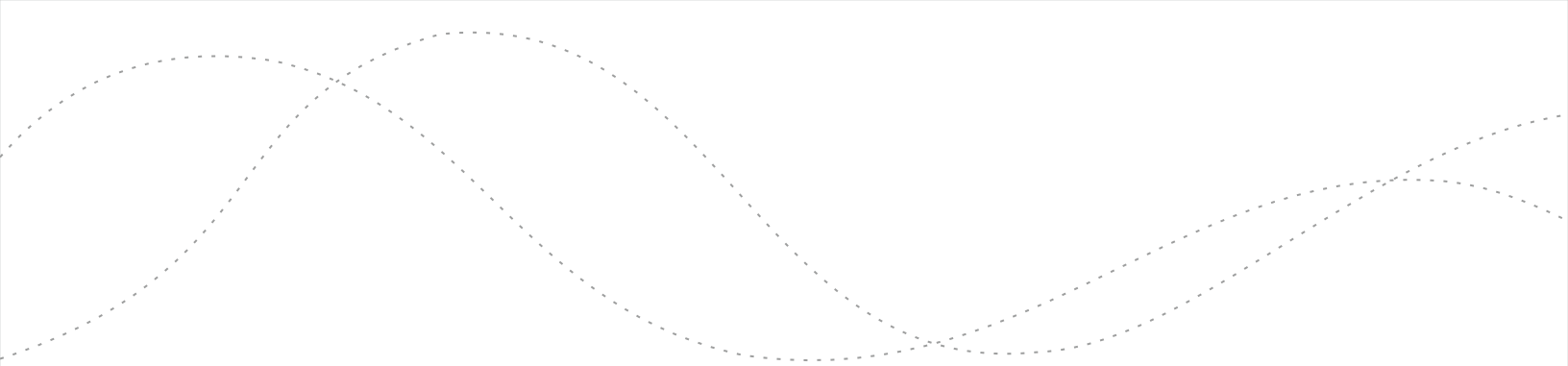
KEC Uses premium fibers imported from world renowned manufacturers for making the cable. The plant is equipped with the best machineries for manufacturing and testing of cables.



24f Sm Mt Armoured Optical Fibre Cable



24f Sm Fig-8 Aerial Optical Fibre Cable



TYPICAL OPTICAL FIBER CHARACTERISTICS

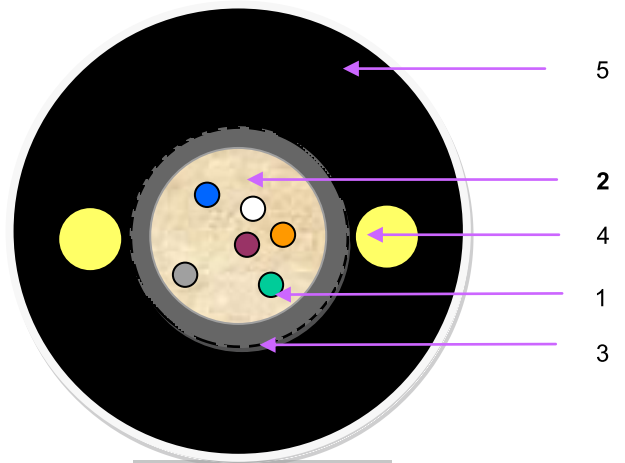
Parameters	
Maximum Individual Fiber Attenuation 1310 / 1550 nm	0.35 / 0.22 dB/km
Point Discontinuities at 1310 / 1550 nm	0.10 dB
Water Peak Attenuation at 1383 nm	Less than at 1310 nm
Attenuation Change vs. Wavelength 1285 to 1310 nm	0.10 dB/km
Attenuation Change vs. Wavelength 1525 to 1575 nm	0.05 dB/km
Attenuation Change vs. Bending 100 wraps / 75 mm	0.10 dB
Attenuation Change vs. Bending 1 wrap / 32 mm	0.50 dB
Zero Dispersion Wavelength	1300 – 1324 nm
Maximum Dispersion at 1310 / 1550	3.2/18.0 ps/nm x km
Zero Dispersion Slope	0.092 ps/nm ² x km
Nominal Mode Field Diameter 1310 nm	9.0 – 9.3 µm
Nominal Mode Field Diameter 1550 nm	Typically 10.5 µm
Mode Field Diameter Tolerance	± 0.5 µm
Cabled Fiber Cutoff Wavelength (lcc)	< 1260 nm
Group Index of Refraction 1310 nm	1.466
Group Index of Refraction 1550 nm	1.467
Polarization Mode Dispersion	< 0.5 ps/Ökm

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Unarmoured Aerial Uni Tube Optic Fibre Cable (2F to 12F)

Applications: High-speed voice, video and Data transmission
Local Area Network
Fibre Channel (CATV, Multimedia, etc.)

1. Optic Fibres are housed in Loose Tube
2. Thixotropic jelly injected in loose tube with fibre
3. One Central Poly Butylene Terephthalate (PBT) Loose Tube
4. 2 FRP rods embedded within HDPE sheath
5. HDPE sheath.



6F Cable Cross Section

Technical Specifications From 2 F to 12 F Cable

Description	Typical Values											
Single Mode Optical Fibre	Complying to ITU-T :G-652D											
Fibre Colour Code	Bl	Or	Gr	Br	Sl	Wh	Rd	Blk	Yel	Vio	Ro	Nat
Optical Performance	Max. Attenuation at 1310nm [dB/Km]				0.38		Max. Attenuation at 1550nm [dB/Km]				0.25	
Mechanical Performance	Max. Tensile Strength		Min. Bend Radius			Length between Poles			Compression			
	4 00 N		20D			50 Metre (Max.)			1 000 N /100mm			
Environmental Performance	Temperature		Operating				Installation			Storage/Shipping g		
	Specification		- 20 ^o C to + 70 ^o C				- 10 ^o C to + 45 ^o C			- 30 ^o C to + 70 ^o C		
Physical	Description Cable		2 fibre		4 fibre		6 fibre		8 fibre		12 fibre	
	Elements / Fibre count		1 / 2		1 / 4		1 / 6		1 / 8		1 / 12	
	Nom.Cable dia.		6.0 ± 0.1 mm									
	Nom.Cable Wt.		32 ± 5 Kg/Km									
	Std. Length		2/ 3/ 4km ±10%									

WORLDWIDE NETWORK

Telecom Customers across the globe

Oman		Bulgaria		UAE		Bangladesh		Afghanistan
Zimbabwe		Srilanka		Gambia		Philippines		Maldives
Swaziland		South africa		Nigeria		Tanzania		Kenya
Jordan		Bulgaria		Georgia		Taiwan		Uganda

PRESTIGIOUS CUSTOMERS IN INDIA

TATA Communication | BSNL | ABB | Tecnimont | MTNL
L&T Technology Services | TATA Power Solar | ONGC



RPG CABLES



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