



ReyanshCab

WIRES AND CABLES

REYANSH CAB

PRODUCT CATALOGUE

2022

ABOUT COMPANY

Reyansh Innational is one of the leading manufacturers of wires, cables, powercord, connector and harness

Serving the best quality in the industry since 1995. Currently having 2 units, 1 in Delhi and 1 in Noida. With over 2100 sq meters. With over 50 employees and an annual turnover of over 50Crores

We have well established lab for all type of testing.



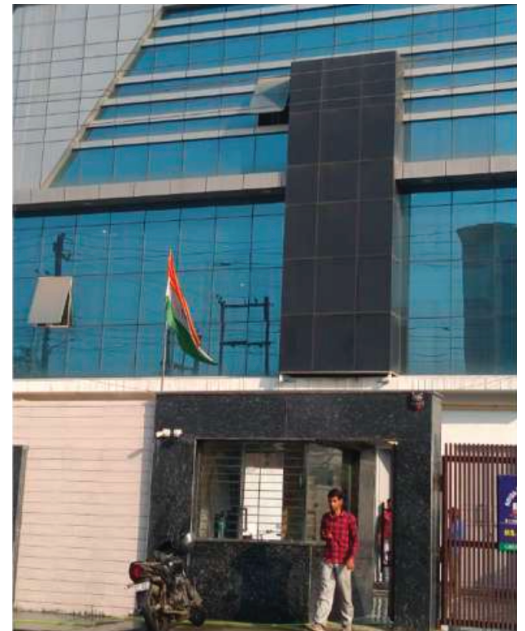
COMPANY MISSION

The Mission of Reyansh International Cables is to achieve world class standard and contribute towards conservation and protection of eco-system through development of Eco-friendly products. Our price-structure is very competitive in the market only because of our minimized overheads and we believe in reasonable profit. Our services are always available to assist in the selection of right kind of Product to meet specific requirements



COMPANY VISION

- Bring further economics in designs
- Ensure zero rejection at the manufacturing stage
- To utilize utilize technologies to meet the production goals



We show that we value our customers by serving them well, putting their needs interests at the center of everything we do.

Application

Suitable for wiring in all types of residential and commercial infrastructure, where fire and electrical safety is utmost important.

Technical Data

Approvals - IS 694 marked

Voltage Grade - Up to and including 1100 V

Conductor - Thin strands of electrolytic copper are multi-drawn for uniformity of resistance, dimension and flexibility. The strands are twisted with high precision to impart circularity for the conductor.

Insulation - Specially formulated heat resistant & flame retardant PVC insulation is used. The HR FR property retards the propagation of flame without compromising safety.

Insulation Conformity - IS 5831, Type C-HR 85°C + FR

Colours - Red, yellow, blue, black, green, grey & white

Packing - 90 mtr. coil is packed in protective cartons. Project packing of 180 mtr. also available.

Cabel Design Parameters

Nomin cross section area (sq. mm)	Nominal insulation thickness(mm)	Number nominal dia of strands	Approx overall diameter (mm)	Max DC conductor resistance at 20C (0/km)	Current Rating	
					Casing	Concealed
1	0.7	32/0.2	2.7	18.1	14	13
1.5	0.7	30/0.250	3.0	12.1	18	16
2.5	0.8	50/0.250	3.7	7.41	24	20
4	0.8	56/0.3	4.1	4.95	30	26
6	0.8	84/0.3	4.6	3.30	38	33
10	1.0	140/0.3	7.0	1.91	52	45
16	1.0	126/0.3	8.1	1.21	70	60

Properties

Test	Test Method	Values
Limited Oxygen Index	IS 10810 - 58	>29%
Limited Oxygen Index	IS 10810 - 58	>250 C

Application

Suitable for use in conduct and for fixed, protected installation particularly suitable for wiring in fire and explosion prone areas, chemi factories, densely wired areas, public buildings, schools, hospitals, commercial complexes, theatres, etc.

Technical Data

Approvals - IS 694 marked

Voltage Grade - Up to and including 1100 V

Conductor - Thin strands of electrolytic copper are multi-drawn for uniformity of resistance, dimension and flexibility.

Insulation - Specially formulated flame retardant low smoke low halogen compound to restrict the spread of flames in fire situation. The smoke emitted by the burning cable is considerably low compared to traditional cables. This ensures improved visibility for evacuation of trapped victims and facilitates fire fighting operation.

Insulation Conformity - IS 5831, Type A/D FR-LSH 70°C.

Colours - Entire cable has white base and a double strip of red or yellow or blue or black or green or grey running along the cable length

Packing - 90 mtr. coils packed in protective cartons. Project coils of 180 mtr. also available.

Cabel Design Parameters

Nomin cross section area (sq. mm)	Nominal insulation thickness(mm)	Number nominal dia of strands	Approx overall diameter (mm)	Max DC conductor resistance at 20C (0/km)	Current Rating	
					Casing	Concealed
1	0.7	14/0.3	2.7	18.1	14	13
1.5	0.7	22/0.3	3.0	12.1	18	16
2.5	0.8	36/0.3	3.7	7.41	24	20
4**	0.8	56/0.3	4.1	4.95	30	26

Properties

Test	Test Method	Values
Limited Oxygen Index	IS 10810P - 58	>29%
Limited Temperature Index	IS 10810 P - 64	>250 C
Smoke Density (Light Absorption)	IS 13360 P - 6/Sec 9	>250 C
Acid Gas Generation	IS 10910 P - 59	>250 C

Application

Reyansh Cable is processed using a zero Halogen Flame Retardant compound (ZHFR). The insulation is of superior quality, 100% PVC free and eco-friendly. In case of a fire situation, Banfire does not emit toxic or poisonous fumes, which enables safe evacuation. These wires are best suited for wiring in hospitals, hotels, business establishments and high rise buildings where fire can be determined. So, give yourself the promise of security and supreme quality. Get Reyansh house wires and safeguard your home for life.

Technical Data

Conductor - The conductors, drawn from bright electrolytic grade copper and annealed and bunched together.

Insulation - The bunched conductors are insulated with specially formulated grade of Halogen Free Flame Retardant (HFFR) compound is used. The insulation does not melt or drop in case of fire. The smoke emitted is transparent, non-toxic and minimal. The victims trapped in the fire do not suffocate and evacuation is convenient.

Colours -Red, Yellow, Blue, Black, Green and Grey

Packing - 90 Meters (apprx.100 yards) pack in protective cartons.

Cabel Design Parameters

Nomin cross section area (sq. mm)	Number nominal dia of Wire*(Nom.)	Thickness of insulation(Nom.)	Ovarall Diameter Max	Max DC conductor resistance at 20C (0/km)	Current Rating	
					Casing	Concealed
0.75	24/0.2	0.6	2.8	26.0	7.50	7.00
1.00	32/0.2	0.6	3.0	19.5	12.00	11.00
1.50	30/0.25	0.6	3.4	13.3	16.00	14.00
2.50	50/0.25	0.7	4.1	7.98	22.00	19.00
4.00	56/0.3	0.8	4.8	4.95	29.00	26.00
6.00	84/0.3	0.8	5.3	3.30	37.00	31.00

Properties

Test	Test Method	Values
Critical Oxygen Index	ASTM-D 2863	Minimum 29%
Temperature Index	ASTM-D 2863	Minimum 250 °C
Acid Gas Generation	JEC 60754-1	Maximum 0.5%
Smoke Density Rating	ASTM-D 2843	Maximum 20%

MULTICORE FIXED WIRE (ISo 694)

Application

PVC and FR PVC 70°C cables suitable for wiring in residential and commercial infrastructure. HR PVC 85°C cables are suitable for wiring in residential and commercial infrastructure for a higher ambient temperature. Reyansh cables are suitable for wiring in public places like schools, hospitals, theatres, etc. These are also suitable for fire prone areas and chemical factories.

Technical Data

Approvals - IS 694 marked

Conductor -Electrolytic grade annealed copper Core Colour: Refer colour code table

Core Colours - Refer colour tabel

Sheath Colour- Black, grey and white

Packing - Standard packing of 100 mtr. in coils. Longer length available on request.

Cabel Design Parameters

Number of cores	Nominal Cross section area (sq.mm)	Nominal Insulation thickness (mm)	Nominal thickness of Sheath (mm)	Max overall Dimension(mm)
1	1	0.60	0.8	4.7
2	1	0.60	0.9	8.2
3	1	0.60	0.9	8.6
4	1	0.60	0.9	9.2

Variants Available

Product Type	Specifications
PVC 70°C	IS 694, IS 8130 Class 1 & 2, IS 5831 Type A insulation & ST-1 sheath
HR 85°C	IS 694, IS 8130 Class 1 & 2, IS 5831 Type C insulation & ST-2 sheath
FR 70°C	IS 694, IS 8130 Class 1 & 2, IS 5831 Type A insulation & ST-1 (FR) sheath
HR 85°C+FR	IS 694, IS 8130 Class 1 & 2, IS 5831 Type C insulation & ST-2 (FR) sheath
FR-LSH	IS 694, IS 8130 Class 1 & 2, IS 5831 Type A insulation & ST-1 (FR-LSH) sheath

Application

High quality co-axial for cable TV network for notch free attenuation values over wide range of frequencies. The special jacketing offers increased life even in rugged conditions.

Technical Data

Conductor - The central conductor is made of solid electrolytic grade annealed plain copper conductor, which has distinct advantages over traditional copper conductor

Insulation - The insulation provided over the conductor is of foam PE which acts as a dielectric.

Screen - Aluminium mylar tape is provided over the insulated conductor to shield the conductor and ensure disturbance free transmission of signals.

Braiding - The braiding is generally provided with 60% coverage of ATC (Annealed Tinned Copper)/Al alloy.

Cabel Design Parameters

Construction Details		Cabel Type		
		RG 59 F	RG 06 F*	RG 11 f
Inner Conductor		Copper	Copper	Copper
Nominal Diameter(mm)		0.8	1.02	1.63
Dielectric		Foam PE	Foam PE	Form PE
Nominal Diameter(mm)		3.5	4.5	7.0
Outer Coverage	First	Bonded Al Type	Bonded Al Tape	Bonded Al Tape
	Second	Tinned Cu/Al Braid	Tinned Cu/Al Braid	Tinned Cu/Al Braid
Nominal Coverage (%)		60	60	60
PVC Jacket		Black	Black	Black
Nominal Cabel Diameter(mm)		6.2	7.0	10.0

RD 6 F armoured is also available with CCS conductor and the application part number shall be 01050108791

Construction Details		Cabel Type - Armoured		
		RG 59 F	RG 06 F*	RG 11 f
Part Number		010501050791	010601060791	010501010791
Nominal Cabel Diameter(mm)		10.5	11.4	14.6

RD 6 F armoured is also available with CCS conductor and the application part number shall be 01050108791

REYANSHLAN CAT 5e/6

Application

CAT 6UTP cables are high performance cables used increasingly for modern computer network systems. These cables form the back bone of modern data transmission in industries, residential and commercial infrastructure.

Technical Data

Performance - REYANSHLAN enhanced CAT 6 UTP capable of handling 100+ Mbps data rates. REYANSHLAN CAT 5e UTP is independently Verified to exceed the requirements of EN 50173 ISO/IEC 11801 and TIA/EIA 568-B-1/8-2

Cable Construction

Conductor - Solid bare copper

Insulation - High density polyethylene

Pair - 2 Insulated conductors twisted together

Outer Jacket - FR PVC

Colour Code

1 Pair- White Orange stripe and orange

2 Pair- White Green stripe and Green

3 Pair- White Blue stripe and blue

4 Pair- White Brown stripe and Brown

Packing - Available in easy pull box of 101 mtr. and 305 mtr. for CAT 5e and CAT 6 is available only in 305 mtr. pack

Type	CAT 5e	CAT 6
Part Number	010701014094	010701014194

Mechanical and Environment properties

Applicable International Standards for cable construction

Max. Tensile Load :	10 Kgs per simples cabel(Installation)
Min. Bend Radius :	8 x Outer diameter (Installation) 4 x Outer Diameter (operation)
Temp. - Installation :	0c to 50C
Temp. -Operation :	-10c to +60C

ISO/IEC 11801:2002

ISO/IEC 61156-5

EN 50173-1:2002

EN 50288-3-1

ANSI/TIA/EIA 5688-2:2002

Electrical Parameters at 20C

Electrical Characteristics at 20C	Specification	Typical Performance	
		CAT 5e	CAT 6
Conductor loop resistance	Max. 190/100m	160/100m	140/100m
Conductor resistance unbalance	Max. 2%	0.5%	0.5%
Dielectric strength	1.0 kV DC or 0.7 kV AC for 1 min.	100% in process test	100% in process test
Insulation resistance	>500 MO/Kmat100-500V test voltage	>500 MQ/Km	>500 MQ/Km
Capacitance unbalance to earth	Max. 160 pF/100m	40 pF/100m	40 pF/100m
Velocity of propagation	<534 nsec/100m at 100MHZ	496 nsec/100m at 100 MHz (NVP for hand held testers = 0.69)	490 nsec/100m at 100 MHz (NVP for hand held testers = 0.69)
Skew	Max. 40 nsec/100m at 100MHZ	(NVP for hand held testers = 0.69)	Max. 30nsec/100m at 100 MHz
Mean characteristic impedance	1000±50 at 100 MHZ	1000±50 at 100 MHZ	1000±30 at 100 MHZ
Coupling attenuation up to 1 Ghz	Min. 40 dB	50 Db	56 Db

CCTV CAMERA CABLE

Application

These cables are specifically designed to transmit complete video frequency with minimum distortion or attenuation for security and surveillance. This cable is offered in two variants viz, 4+1 and 3+1 CCTV Camera cable.

Properties

CCTV cables are designed to optimize the quality of video signals. The dense tin coated copper screen ensures complete elimination of EMI/RFI from video signals and also provides reduced DC resistance ground path. The multi stranded construction offers better flexibility and reduced bending radius.

Cable Construction

Screened Core for Video signal

Conductor - The central conductor is made of fine wires tin coated electrolytic grade copper

Insulation - The insulation provided over the conductor is of HDPE with high dielectric strength and low capacitance.

Screen - Annealed tin coated copper 85% coverage approx.

Sheath - Black colored PVC

Power core

Conductor - The central conductor is made of fine wires tin coated electrolytic grade copper.

Insulation - The insulation provided over the conductor is of PVC with high dielectric strength.

Seperator - PETP tape.

Sheath - PVC

Cable Colour - White Black with UV resistance to ASTM G 154

Cabel Design Parameters

Part Number	Cabel Type	Cabel Size (Sq. mm)	Nominal Cabel Diameter(mm)	Power Core Colour
010801010795	CCTV Cabel 4+1	4C + 1C x 0.25	6.8	RD,YK,BK,GN
010801010795	1.CCTV Cabel 3+1	3C + 1C x 0.25	6.8	RD,BK,GN

PVC SUBMERSIBLE FLAT CABLE

Application

The PVC insulated and sheathed 3 core flat cables are mainly used in pump connections. They are also used in many industrial applications, The sheath is specially made out to resist tough and difficult condition of usage, excellent resistant to water, conditionally resistant to water and grease

Technical Data

- Approval** - IS 694 marked FIA/TAC
- Conductor** - Electrolyte grade annealed copper
- Core Colour** - Red, yellow(Center core), blue
- Sheath Colour** - Black
- Packing** - Standard packing of 100 mtr. in coils: Longer length available on request.

Variants Available

Product Type	Specifications
PVC 70C	IS 694, IS 8130 Class 2(1.5 & 2.5 Sq. mm), for other class 5, IS 5831 type A insulation & ST-1 sheath
HR 85C	IS 694, IS 8130 Class 2(1.5 & 2.5 Sq. mm), for other class 5, IS 5831 type C insulation & ST-2 sheath

Cable Design Parameters

Normal cross section area	Number of stands/ Max. stand dia. mm	Nom. Insulation Thickness(mm)	Nominal sheath thickness (mm)	Maximum overall Dimension (W x H) (mm x mm)
0.5	16/0.2	0.6	0.9	9.6 X 4.9
0.75	24/0.2	0.6	0.9	10.5 X 5.2
1	32/0.2	0.6	0.9	11.0 X 5.4
1.5*	22/0.3	0.6	0.9	112.0 X 5.6
2.5*	36/0.3	0.7	1.0	13.0 X 6.2
4	56/0.30	0.8	1.0	15.3 X 7.1
6	84/0.30	0.8	1.1	19.2 X 8.4
10	140/0.30	1.0	1.4	24.2 X 10.4
16	126/0.40	1.0	1.4	29.0 X 12.4
25	196/0.40	1.2	2.0	40.5 X 17.2

Normal cross section area	Number of stands/ Max. stand dia. mm	Nom. Insulation Thickness(mm)	Nominal sheath thickness (mm)	Maximum overall Dimension (W x H) (mm x mm)
35	276/0.40	1.2	2.0	40.5 X 17.2
50	396/0.40	1.4	2.2	46.5 X 19.3
70	360/0.50	1.4	2.2	52.0 X 21.0
95	480/0.50	1.6	2.4	61.0 X 24.5

Current rating & voltage drop for PVC/PVC sheathed multicore cabelas per IS 694

Nominal cross section Area of conductor(mm)	2 Core & 3 core cabel for single phase AC/DC		3 Core & 43 core cabel for three phase AC	
	Max. current capacity(A)	Voltage Drop (mV/A/m)	Max. Current Capacity(A)	Voltage Drop (mV/A/m)
0.5	5	83	4	72
0.75	8	56	7	48
1	13	40	12	35
1.5*	17	27	16	23
2.5*	24	16	22	14
4	30	10	28	8.8
6	38	6.8	36	5.9
10	52	4	48	3.5
16	70	2.6	64	2.2
25	88	1.6	80	1.4
35	112	1.2	100	1.0
50	146	0.97	130	0.84
70	216	0.7	192	0.62
95	262	0.59	230	0.48

Current rating conversion factor for deviating abmient temperature (IS 694)

Ambient Temperature (C)	Derating Factor
30	1.09
40	1.00
45	0.78
50	0.70
55	0.60
60	0.48



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