



NARAYAN TRADING CO.

Manufacturer of -



Company Profile

To match up with the latest demands of the market, we also regularly bring up gradations in our import range with the help of our market research unit. Moreover, our industry experience also enables us to import and stock cost effective & high performance oriented alloys for our customers.

Well designed and manufactured our LT & HT XLPE Cables, are highly robust and can withstand a lot of wear and tear. This product displays distinct properties, which make it superior to use. These are used for both in indoor and outdoor shielded and unshielded foiled in various colors and diameters as per the requirement of the application. Our quality department ensures that this product is of the highest quality. We use our state-of-the-art infrastructure to give you this product.

In keeping with the company's commitment to technological advancement, elastomeric materials such as Polychloroprene (PCP), Chloro-Sulphonated Polythelene (CSP), Nitrile Rubber/PVC blends, Ethylene Propylene, Rubber (EPR), Ethylene Vinyl Acetate (EVA) and Silicon have been specially compounded to meet numerous heat oil and fire resisting requirements. In the recent years we have also developed special Elastomeric Fire Survival Cables for power and control cables.

We are :

Auth. Channel Partner of :

- CENTURION CABLES
- DELTON CABLES LTD.
- FINOLEX CABLES LTD.

Stockists Of:

- LAPP KABEL
- BELDEN CABLES
- HAVELLS, POLYCAB
- KEI, UNIVERSAL
- CRYSTAL, MESKAB
- GLOSTER, EKDK
- NICCO, CCI
- RPG, RR KABEL etc.

Specialist In :

- Rubber cables
- VIR / TRS, ERP / PCP / CSP cables
- Crane Magnet cables
- Silicon cable OF 1.1 KV TO 11 KV GRADE
- H R Compensating cables (J,K,T,R,S type) upto 800*
- Heat Resistance cables
- FIBRE GLASS SINGLE & MULTICORE CABLES
- Telephone cables, SWITCH BOARD CABLES
- PVC / JELLY FILLED ARMORED / UNARMORED CABLES
- Instrumentation cables
- SCREENED ARMORED & UNARMORED CABLES
- HT / LT Power & control cables
- PTFE / Teflon Wires & cables
- PVC single & Multicore cables
- Co-Axial cables
- Optic Fibre / LAN cables Etc.



NARAYAN TRADING CO.

Manufacturer of -



Lights & Luminaires & Fittings :

- PHILIPS
- BAJAJ
- GE
- OSRAM
- CROMPTON GREAVES etc.

- OFC ARMORED / UNARMORED CABLES

Also Deals In :

- HT / LT Switchgear (L&T, Siemens, Havells, Schnider/BCH, GE, Standard, C4, TC etc.).
- Crimping Tools, Sockets.,
- Panel Board Acce.,
- HT / LT Insulator & Fittings,
- Earthing Materials etc.
- Anything and Everything in Electricals as per customer specs.

Approvals

- NTPC
- BHEL
- DCPL
- PGCIL
- Railway
- DVC
- BSNL
- EIL
- SAIL
- Avant - Garde
- TOYO Engineering India Ltd.
- Nuclear Power Corporation Ltd.
- Dept. of Atomic Energy
- IOCL / HPCL / BPCL / CPCL
- TCE
- PGCIL
- PDIL

Major Customers



NARAYAN TRADING CO.

Manufacturer of -



OPTICAL FIBER CABLE

These cables are manufactured in size range from 6 to 144 Fibre. 2 Fibre and 4 Economy design cables are also being manufactured for cable TV applications.

The product range includes :

- Single Tube, multi loose tube, ribbon construction.
- Single and multimode fibre.
- Duct, Direct Burial, Aerial design



To meet customer's total project requirement, we can also supply cable accessories like joint closures, termination boxes, fiber distribution frames, optical jumpers and tools for cable handling outsourced from reputed manufacturers in fully assembled condition.

The salient features of Single Mode Optic Fibre Cable is given below :

Parameters	Value
Type of the cable	Duct, Direct Burial, Aerial.
Number of fiber	2-144 fiber count.
Fiber Type	ITU-T G 652, G 655.
Loose Tube Material	PBTP, Nylon.
Water Resistance	Thixotropic Jelly.
Strength Member	FRP, Aramid Yarn, Glass Reinforcement fiber Yarn, Steel Wire.
Moisture Barrier	Water Swellable tape, Flooding Jelly.
Armouring Material	Copolymer Coated S. S. Tape, Copolymer Coated Chrome Plated MS



NARAYAN TRADING CO.

Manufacturer of -



	Tape.
Sheath / Jacket Compound	HDPE (anti-termite or Normal), Polyamide-12
Attenuation at 1310 nm (dB/km)	< 0.36 for G 652 fiber
Attenuation at 1550 nm (dB/km)	< 0.25 for G 652 fiber
Temperature of Operation (°c)	- 20 to +70
Tensile Strength (Newton)	1.3 W/ 2.0*W/ 2.5 *W or as per requirement.
Crush Resistance (Newton)	2000, 4000 or as per requirement.
Impact Resistance (Newton*Meter)	25
Torsion Test	360°; 10 cycles
Minimum Bending Radius (mm)	20*D
Repeated Bending	20 * D, 30 Cycles
Static bending (mm)	10* D
Water Penetration Test	No seepage
Drip test	No drainage at 70 °C
Kink Resistance (mm)	No kink at minimum bending radius

COMMUNICATION CABLES

Indoor Switch Board Telephone Cables.

- Used for indoor installation for the interconnection of telephones, telegraph and electronic equipments.



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- Solid annealed plain/tinned copper conductor.
- PVC insulation
- 1 pair to 200 pair.
- Available in 0.4, U.S. 0.6, 0.71, 0.8 & OS mm
- Armoured and Unarmoured.
- Confirming to Indian A International standards

Jelly Filled Telephone Cables (PE Insulated)

- Used for Indoor/ outdoor installation for the inter connection telephones and electronic equipment.
- Jelly is moisture and water repellent and prevents water seepage.
- Range : 2 pairs to 800 pairs.
- Conforming to Indian and International standards.
- Unarmoured / Armoured
- Sizes available are 0.4mm, 0.5mm, 0.63mm, & 0.9 mm

TV/RF Co-axial Cables

- Used for high frequency system for transmission and reception.
- Foam / Solid Polyethylene insulation.
- Plain / Tinned/ silver plated copper braided wire
- Available in 50,75,95,125 and 150 ohms
- Generally conforming to BS, MIL, IS and IEC standards.

LAN Cables (UTP & STP)

- Used widely for structured cabling.
- Fast Networking speed.
- CAT 5 E and CAT 6 versions available.
- Conforming to TIA / EIA 568 A
- High bit rates over extended distances.
- Insulation : Low ATT.PE





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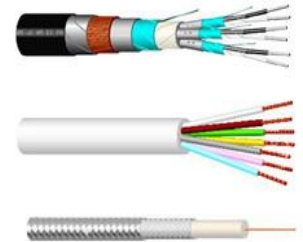
Manufacturer of -

Amex
wires and cables

WIRES & CABLES

Instrumentation Cable

- Suitable for fixed installation in dry and humid locations.
- Instrumentation cables provide vital communication link between sensing device and read out equipment for Analog and Digital signals.
- Conforming to standard specifications like IS 5608, I. II. /II, BS 5308 Pt-I & VDE 0815, 0816 and as per customer's requirement.
- Can be provided with or without EMI protection with copper screening or aluminum foiling.
- Sizes available 0.25 to 1.5 eq. mm



Thermocouple / Compensating Extension Cables

- Used in temperature measuring applications to convey information from a thermocouple element to the measuring device.
- The conductors are made of different metal compositions to provide positive and negative cores to match the components of those in the thermocouple elements.
- The cables are in various types e.g. K, T, R, S, '3' Luggers to ANSI/MC 964., IFC SR41, IS - 87R4 whether Armoured or Unarmoured, Screened or Unscreened & Braided.



P.T.F.E. INSULATED SILVER PLATED COPPER WIRE

P.T.F.E. insulated equipment/ hookup wires are high temperature electrical wires generally used for internal wiring of various electronic and electrical equipments and other electrical purposes and are available in wide range of sizes and colours. They are most suitable to use for wiring of equipments involving high frequency signals. Uniform thickness of insulation around the conductor and very low dielectric constant of P.T.F.E. enables the transmission of high frequency signals with minimum signal losses. It results in high quality signal transmission as compared to ordinary wires. P.T.F.E. wires are manufactured in conformance with JSS, mil-W and BSS specifications as desired. P.T.F.E. equipment wires are available in various working voltages :

- Type ET for 250 Volts,
- Type E for 600 Volts,
- Type EE for 1000 V.

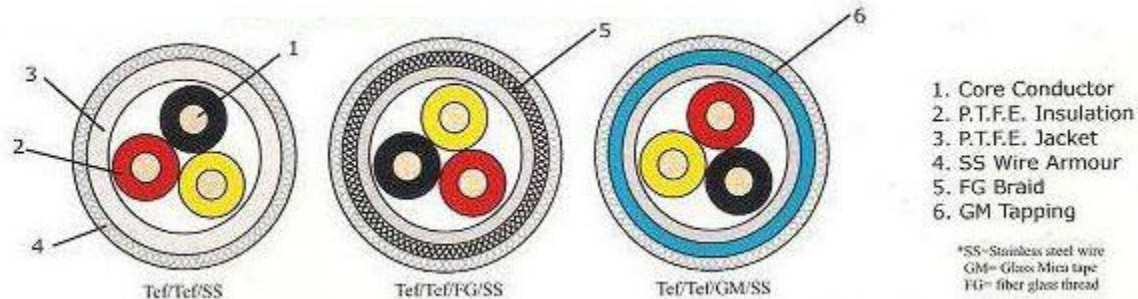


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Manufacturer of -



HEAT RESISTANT (HR) HIGH TEMPERATURE P.T.F.E. CABLE



Heat resistant high temperature (HR) cables are used as power cables in plants where there is high temperature environment and ordinary PVC cables can not be used such as near rotary kilns, furnaces, boilers etc. Due to the high temperature around the furnace, the electrical wiring of motors, control panels etc. near the furnace gets damaged frequently, which compels the replacement of cables at short intervals leading to precious loss of productivity. This problem is greatly reduced by using High temperature P.T. F.E. (Teflon) insulated H.R. cables.

H.R. Cables made by Tefkot Cable Company are made by using P.T.F.E. (Teflon) insulation which is a High Temperature Insulating material having excellent electrical properties and is inert to almost all chemicals and it also does not age. These properties make it suitable to be used as power cable in industries such as steel, cement, fertilizer, chemical etc.

These cables can be designed to work at temperatures as high as 800°C. Apart from P.T.F.E. insulation. High temperature materials like glass fiber and glass mica are used effectively to increase the working temperature of the cable where required. A Stainless steel braid armoring is provided to increase the durability and mechanical strength of the cable.



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S.No	Cable Size (Sq.MM)	CONDUCTOR			CORE OD(MM)	No. of Cores	OD over P.T.F.E. Jacket	TEF/SS(A)	TEF/FG/SS (B)		TEF/GM/SS (C)	
		Strand Dia(MM)	No Of Strand	Cond. Dia.(MM)				CABLE OD(MM)	OD over fiber glass braid (MM)	CABLE OD(MM)	OD over glass mica (MM)	CABLE OD.(MM)
1	2.5	0.20	80	2.40	3.00	3	6.94	7.74	7.34	8.14	7.44	8.24
2	4.0	0.20	128	3.00	3.60	3	8.20	9.00	8.60	9.40	8.70	9.50
3	6.0	0.32	77	3.80	4.40	3	9.88	10.68	10.28	11.08	10.38	11.18
4	8.0	0.40	63	4.30	5.05	3	11.35	12.15	11.75	12.55	11.85	12.65
5	10.0	0.40	80	4.80	5.65	3	12.65	13.45	13.05	13.85	13.15	13.95
6	16.0	0.40	128	6.00	7.10	3	15.77	16.55	16.17	16.97	16.27	17.07
7	25.0	0.40	196	8.00	9.10	3	20.10	20.90	20.40	21.20	20.60	21.40
8	2.5	0.20	80	2.40	3.00	4	7.85	8.65	8.25	9.05	8.35	8.15
9	4.0	0.20	128	3.00	3.60	4	9.30	10.10	9.70	10.50	9.80	10.60
10	6.0	0.32	77	3.80	4.40	4	11.35	12.15	11.75	12.55	11.85	12.65
11	8.0	0.40	63	4.30	5.05	4	12.87	13.67	13.27	14.07	13.37	14.17
12	10.0	0.40	80	4.80	5.65	4	14.35	15.15	14.75	15.55	14.85	15.65
13	16.0	0.40	128	6.00	7.10	4	17.91	18.71	18.31	19.11	18.41	18.21
14	25.0	0.40	196	8.00	9.10	4	22.20	23.00	22.60	23.40	22.70	23.50
15	25.0	0.40	196	8.00	9.10	1	--	9.90	9.50	10.30	9.60	10.40
16	50.0	0.51	247	11.20	13.20	1	--	13.20	12.80	13.60	12.90	13.70
17	70.0	0.51	361	12.50	14.80	1	--	14.80	14.40	15.20	14.50	15.30
18	120.0	0.51	608	16.75	19.30	1	--	19.30	18.90	19.70	19.00	19.80
19	150.0	0.51	740	18.30	21.10	1	-	21.10	20.70	21.50	20.80	21.60

All the values given are nominal values. Construction Parameters can be altered at any time for Design Improvement.

WE CAN DESIGN & MANUFACTURE ANY TYPE OF CABLE HAVING P.T.E.F. INSULATION AS PER CUSTOMER'S SPECIFICATIONS

P.T.F.E. INSULATED RTD CABLES

RTD cables manufactured by Tefkot Cable Company are used as connecting lead wire between RTD sensor and temperature indicator device. RTD Cables are made in 2 core, 3 core, 4 core and 6 core configurations, 3 cores being the most commonly used configuration.

CONSTRUCTION : RTD Cables are made in three common constructions for making them suitable for different situations. These are
 Tef/Tef = This is the most common construction. The cores are insulated with Teflon and then cores are twisted and Jacketed with Teflon.

Tef/Fg = In this construction cores are of Teflon and jacket is of Fiber glass braid. This is used when RTD cable has to be installed in high temperature environment.

Tef/SPC/Tef = In this construction a SPC wire braid shield is provided between twisted cores and outer Jacket. This type of Cable is used where higher accuracy is required. The current and voltage signals in RTD Cables are of very small magnitude and can get affected by external electromagnetic noises produced by external devices such as motors, electronic equipments etc near the cable. The SPC Shield is grounded from one end and this protects the signals in the cable



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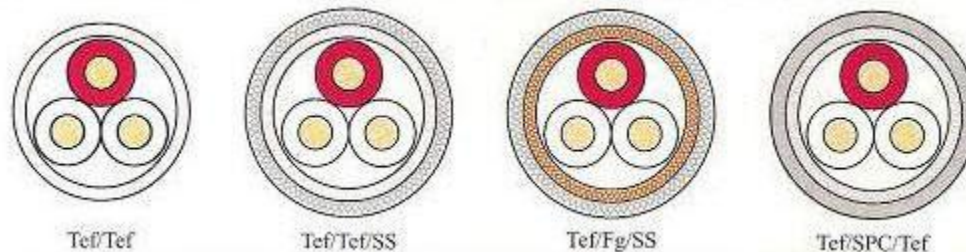
from these external noises.

In all these configurations, an additional SS wire braid Armoring can be provided to increase the mechanical toughness of the cable.

S.No.	SIZE (AWG)	Conductor Dia (mm)	Conductor Resistance (OHM/Km) max at 20degC	NOMINAL DIA OF FINISHED CABLE (mm)											
				Tef/Tef				Tef/Fg				Tef/SPC/Tef			
				2 CORE	3 CORE	4 CORE	6 CORE	2 CORE	3 CORE	4 CORE	6 CORE	2 CORE	3 CORE	4 CORE	6 CORE
1	28/7/36 SPC ET	0.39	210.5	1.69	1.95	2.15	2.5	1.6	1.85	2.10	2.4	2.09	2.35	2.55	2.9
2	26/7/34 SPC ET	0.48	133.7	1.85	2.10	2.35	2.80	1.75	2.00	2.30	2.70	2.25	2.50	2.75	3.20
3	24/7/32 SPC ET	0.60	83.2	2.06	2.35	2.65	3.13	1.96	2.25	2.60	3.03	2.46	2.75	3.05	3.53
4	22/19/34 SPC ET	0.80	49.8	2.42	2.77	3.15	3.71	2.32	2.67	3.10	3.61	2.82	3.17	3.55	4.11

Conductor sizes shown in the table are the generally used common sizes. RTD cables can be made in other sizes also as per requirement. When using long cables, it is necessary to check that the measuring equipment is capable of handling the resistance of the cables. Most equipment can cope with up to 100 ohms per core. For better accuracy in measurement, longer the cable length being used, larger should be the area of the conductor so that the resistance of the lead wire is minimal

COMMON CONSTRUCTIONS OF RTD CABLES.



WE CAN DESIGN & MANUFACTURE ANY TYPE OF CABLE HAVING P.T.E.F. INSULATION AS PER CUSTOMER'S SPECIFICATIONS



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P.T.F.E. INSULATED SILVER PLATED COPPER WIRE

P.T.F.E. insulated equipment/ hookup wires are high temperature electrical wires generally used for internal wiring of various electronic and electrical equipments and other electrical purposes and are available in wide range of sizes and colours. They are most suitable to use for wiring of equipments involving high frequency signals. Uniform thickness of insulation around the conductor and very low dielectric constant of P.T.F.E. enables the transmission of high frequency signals with minimum signal losses. It results in high quality signal transmission as compared to ordinary wires. P.T.F.E. wires are manufactured in conformance with JSS, mil-W and BSS specifications as desired. P.T.F.E. equipment wires are available in various working voltages;

- Type ET for 250 Volts,
- Type E for 600 Volts,
- Type EE for 1000 V.

S.No	Size (AWG)	No. of strands /dia. Of strand(mm)	Parameters of conductor(nominal)			Current Rating (In amps)		Diameter of Finished wire (mm)					
			Dia. (mm)	Cross section (Sq. mm)	Resistance ohm /km at 20° C	30°C	200°C	ET		E		EE	
								Min.	Max.	Min.	Max.	Min.	Max.
1	32/7/40	7/0.08	0.24	0.0350	570.9	2.5	6.0	0.51	0.61	0.66	0.86	0.91	1.12
2	30/1	1/0.25	0.25	0.0490	356.4	2.5	6.0	0.51	0.61	0.67	0.86	0.91	1.12
3	30/7/38	7/0.10	0.30	0.0550	332.3	2.5	6.0	0.56	0.66	0.71	0.91	0.97	1.17
4	28/1	1/0.32	0.32	0.0800	224.4	3.5	8.0	0.58	0.69	0.74	0.94	0.99	1.19
5	28/7/36	7/0.13	0.39	0.0930	210.5	3.5	8.0	0.64	0.74	0.79	0.99	1.04	1.25
6	26/1	1/0.40	0.40	0.1256	140.9	4.0	10.0	0.66	0.76	0.81	1.02	1.07	1.27
7	26/7/34	7/0.16	0.48	0.1407	133.7	4.0	10.0	0.74	0.84	0.89	1.09	1.14	1.35
8	26/19/38	19/0.10	0.50	0.1492	126.7	4.0	10.0	0.74	0.84	0.89	1.09	1.14	1.35
9	24/1	1/0.50	0.50	0.1963	88.4	6.0	15.0	0.76	0.86	0.91	0.12	1.17	1.37
10	24/7/32	7/0.20	0.60	0.2199	83.2	6.0	15.0	0.86	0.97	1.02	1.22	1.27	1.47
11	24/19/36	19/0.13	0.65	0.2522	80.2	6.0	15.0	0.86	0.97	1.02	1.22	1.27	1.47
12	22/1	1/0.65	0.65	0.3318	56.1	7.0	18.0	0.89	1.02	1.04	1.27	1.30	1.52
13	22/7/30	7/0.25	0.75	0.3436	52.5	7.0	18.0	1.02	1.12	1.17	1.37	1.42	1.63
14	22/19/34	19/0.16	0.80	0.3820	49.8	7.0	18.0	1.02	1.12	1.17	1.37	1.42	1.63
15	20/1	1/0.80	0.80	0.5027	34.7	9.0	22.0	1.07	1.17	1.22	1.42	1.47	1.68
16	20/7/28	7/0.32	0.96	0.5630	33.0	9.0	22.0	1.22	1.32	1.37	1.58	1.63	1.83
17	20/19/32	19/0.20	1.00	0.5969	30.3	9.0	22.0	1.25	1.36	1.37	1.58	1.63	1.83
18	18/1	1/1.00	1.00	0.7854	21.8	12.0	30.0	--	--	1.42	1.68	1.68	1.93
19	18/7/26	7/0.40	1.20	0.8796	20.7	15.0	35.0	--	--	1.63	1.88	1.88	2.13
20	18/19/30	19/0.25	1.25	0.9327	19.1	15.0	35.0	--	--	1.63	1.88	1.88	2.13
21	16/19/29	19/0.29	1.45	1.2550	14.9	19.0	45.0	--	--	1.85	2.21	2.11	2.49
22	16/37/32	37/0.20	1.40	1.1624	15.0	19.0	45.0	--	--	1.85	2.21	2.11	2.49
23	15/19/28	19/0.32	1.60	1.5281	12.5	22.0	50.0	--	--	2.04	2.39	2.29	2.70
24	14/19/27	19/0.36	1.80	1.9340	9.5	25.0	60.0	--	--	2.24	2.59	2.49	2.90
25	14/37/30	37/0.25	1.75	1.8162	10.0	25.0	60.0	--	--	2.24	2.59	2.49	2.90
26	13/19/26	19/0.40	2.00	2.3876	7.8	30.0	75.0	--	--	2.49	2.84	2.74	3.15
27	12/19/25	19/0.45	2.25	3.0218	6.0	35.0	90.0	--	--	2.72	3.07	2.97	3.38
28	12/37/28	37/0.32	2.24	2.9757	6.5	35.0	90.0	--	--	2.67	3.02	2.97	3.38
29	11/19/24	19/0.50	2.50	3.7306	5.0	40.0	100.0	--	--	2.93	3.28	3.18	3.58
30	10/37/26	37/0.40	2.80	4.6496	3.9	50.0	125.0	--	--	3.23	3.58	3.48	3.89
31	9/19/22	19/0.65	3.25	6.3048	3.0	65.0	150.0	--	--	3.68	4.03	3.93	4.34
32	8/133/29	133/0.29	4.29	8.7849	2.2	85.0	200.0	--	--	--	--	5.06	5.56
33	6/133/27	133/0.36	5.41	13.5378	1.4	125.0	300.0	--	--	--	--	6.43	6.93



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Manufacturer of -



P.T.F.E. INSULATED WIRES, CABLES & SLEEVES

P.T.F.E. (Polytetrafluoroethylene) is a thermoplastic having outstanding dielectric properties and other such inherent physical and chemical properties, which establishes this insulating material as one of the best amongst available ones. P.T.F.E. (generally known and identified as Teflon) is a thermally most stable fluorocarbon, which besides having excellent electrical insulation properties, has almost total resistance to all commonly used industrial chemicals, and is unaffected by sunlight, moisture, fungus and Mould growth. Due to these properties of P.T.F.E. insulation, the P.T.F.E. wires and cables have many advantages :

- Suitable for use at temperatures ranging from - 65°C to + 200°C for silver plated & - 65°C to + 260°C for nickel plated wires and for very wide frequency range (DC to 10000 MHZ).
- Fire retardant and inert to almost all chemicals even at elevated temperatures.
- Smaller in size, more flexible, lighter in weight and higher reliability.
- Lowest dielectric constant (2.1); dissipation factor (below 0.0003).
- Excellent flex life and totally unaffected by out door exposure to unlimited period.
- Non contaminating, non toxic and bio compatible with good mechanical strength.
- Resistant to fair corona, cold flow, cut through, ultra radiation, fungus and mould growth.

Tefkot Cable Company manufactures various type of wires, cables and sleeves having P.T.F.E. insulation. Conductor used is of electrolytic grade pure copper either bare or with Silver/Nickel Plating, in single (solid) or in strain free true concentric, 7, 19 or 37 strand or in bunched construction as per customer requirement. The insulation is of tape wrapped & "sintered P.T.F.E.

RUBBER CABLES – EPR

With firm commitment to quality, we are able to offered top quality EPR Rubber Cable. These cables are manufactured in compliance with the international quality standards and the current market demands. Supreme grade materials like annealed tinned copper and heat resisting elastomer is used in the manufacturing process to ensure high-grade end products. Our EPR Rubber Cable is widely demanded by our clients as it is compatible with any extreme condition.



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Manufacturer of -

Amex
wires and cables

Features:

- High tensile strength
- Chemical resistant
- Durable
- Fine finish

Conductors: Annealed tinned Copper flexible (Class 5) complying with the requirement of IS 8130-1984

Separator Tape: Suitable material Separator tape may be applied over the conductor

Insulation: Heat Resisting elastomer compound Type IE2 of IS 6380-1984 commonly known as EPR (Ethylene propylene rubber)

Core identification:

- 2 cores: Red & Black
- 3 cores: Red, yellow & Blue
- 4 cores: Red, Yellow, Blue & Green
- 5 cores: Red, Yellow, Blue, Black & Green
- 6 cores and above are numbered

Fillers: Natural or synthetic fibres or elastomer suitable for the operating temperature and compatible with the insulating material.

Braiding: Min. 70 % Cotton Braiding Only With Double Sheath

Sheath:

- Heavy Duty Sheath Type SE3/SE4 of IS 6380-1984.
- CSP (Chlorosulphonated Polyethylene) more commonly as HOFR (Heat & Oil Resistant & Flame Retardant)

Colour: Black

Voltage: 1100 Volts





NARAYAN TRADING CO.

Manufacturer of -



Standards: IS 9968(Pt-1)/1988 & BS6500:

Applications: Reeling unreeling, Trailing, Festooning, Mobile Machines, Cranes, Coal Handling and Conveyors Belts.

Working Temperature of Commonly used Elastomeric Insulating and Sheathing Materials

Material	Max. Cond. Temp. for continuous operation Deg C.	Max. Cond. Temp. for short circuit Deg C.	Min. Working Temp. Deg C.
Natural Rubber (VIR & TRS)	60	200	-55
Ethylene Propylene Rubber (EPR)	90	250	-50
Poly-chloro-prene (PCP)	70	200	-40
Chloro-sulpho-nated Poly-ethy-lene (CSP)	90	200	-35

RUBBER CABLES – TRS

To meet the diverse requirements of our customers, we are able to offer superior quality TRS Rubber Cable. We manufacture these cables using annealed copper and general service elastomer compounds that are approved by IS 8130-1984 and IS 6380-1984 (VIR) respectively. These cables are demanded by various industries for wiring buildings, machines, vehicles and ships. The TRS Rubber Cable which we offer are very strong and durable, therefore widely appreciated by our customers.

Core identification:

- 2 cores: Red & Black
- 3 cores: Red, yellow & Blue
- 4 cores: Red, Yellow, Blue & Green
- 5 cores: Red, Yellow, Blue, Black & Green
- 6 cores and above are numbered





NARAYAN TRADING CO.

Manufacturer of -



Fillers : Natural or synthetic fibres or elastomer suitable for the operating temperature and compatible with the insulating material.

Braiding :Min. 70 % Cotton Braiding Only With Double Sheath

Sheath : General Service sheath Type SE1/SE2 of IS 6380-1984 (TRS)

Colour : Black

Voltage: 1100 Volts

Standards: IS 9968(Pt-1)/1988 & BS6500:

Applications: Reeling unreeling, Trailing, Festooning, Mobile Machines, Cranes, Coal Handling and Conveyors Belts.

Working Temperature of Commonly used Elastomeric Insulating and Sheathing Materials

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RUBBER CABLES – SILICONE

We hold expertise in offering supreme quality Silicone Rubber Cable. These cables are widely demanded by our customers for their excellent conductivity and durability. The cables are demanded by various known companies like, ABB, JSW ISPAT as our Silicone Rubber Cable is approved by the IS : 9968 (Pt-1)/88 ISI standards. Quality silicon rubber is used for insulation to protect the cables from water and ensure high tensile strength.



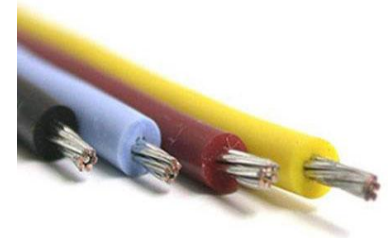
NARAYAN TRADING CO.

Manufacturer of -

Amex
wires and cables

Specifications:

- Heat resisting compound up to 180 0C fiber glass
- Braided and varnished cable
- Available in both single and Multi cores cable
- Equipped with flexible copper conductor up to 6.6 KV
- Conforming to IS : 9968 (Pt-1)/88 ISI MARKED



Applications

- Steel Mills
- EOT Cranes
- Airport Lighting
- Ships
- Nuclear & Thermal Power Stations
- Wind Power Mills
- Electrical Machines
- Textile Machines
- Construction Equipments
- Turbines

POWER CABLES

PVC Power Cables

Power cables are made of copper / aluminium conductor, PVC / XLPE insulated having voltage rating upto 1100 V AC / 1500 V DC armoured / unarmoured with PVC outer jacket made as per IS 1554 Part-1, IS 7098 Part I, BS 5467, IEC 502, any other international standard or customer specification.

Size : 1.5 Sq.mm. to 630 Sq.mm. in 2 to 4 core.
1000 Sq.mm in single core

Conductor - Annealed Bare Electrolytic Grade Copper / Aluminium Conductor conforming to IS:8130:1984. Shaping of Conductor is applied above 10.0 Sq.mm. in Aluminium & 6.0 Sq.mm. in Copper.

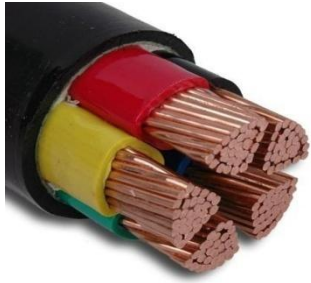


NARAYAN TRADING CO.

Manufacturer of -



Insulation - Type A PVC Compound capable of withstanding conductor temperature upto 70 degrees C for general purpose insulation & 85 degrees C for Heat Resistant insulation conforming to IS:5831:1984 or XLPE insulation for conductor temperature upto 90 degrees C.



Colour Of Cores : Cores are identified with a colour scheme as per IS:1554(Pt-I):1988 as under :

- Cores - Red, Black, Yellow, Blue or Natural (non-pigmented).
- Cores - Red & Black
- Cores - Red, Yellow & Blue.
- Core - Red, Yellow, Blue & Black.(Reduced Neutral Core in case of 3 ½ Core)
- Cores - Red, Yellow, Blue, Black & Grey

In case of cable exceeding five cores, two adjacent (counting and direction cores) in each layer shall be coloured Blue, Yellow and remaining cores grey or cores can be identified by numbers by numbers printed on that of same colour.

Laying Of Cores - Cores are laid up as per the above colour scheme. The final lay direction shall be kept right hand.

Inner Sheath - The Inner Sheath is applied over laid up of cores by extrusion / wrapping of thermoplastic material.

Armoring - It is applied over inner Sheath. It may consist of galvanized Round Steel wires or galvanized Flat Steel Strips conforming to IS:3975. Round Wire armoring is provided , where the calculated diameter under armour is 13.0 mm. Above this, armoring is either round wire/steel strip. In single core cables used in AC systems, armoring I done by non-magnetic hard drawn aluminum wires / strips

Outer Sheath - A final covering of PVC Compound, conforming to IS:5831:1984, is applied over Armoring in case of Armoured Cable or over Inner Sheath in case of Unarmoured Cable, called as "Outer Sheath".

The insulation, inner sheath & outer sheath can be of HR PVC, FRLS PVC, FRHF (Flame Retardant Halogen Free) or ROHS Compound depending upon the application.



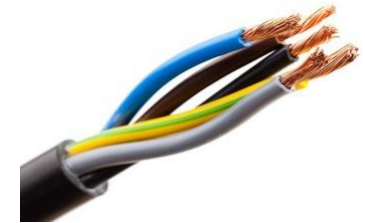
NARAYAN TRADING CO.

Manufacturer of -



Flexible Power Cables

We have developed a special compound for insulation and sheathing and cables are successfully tested to Indian / International Standards and hence Cables attract wide acceptability among the others. We have installed most modern facilities and infrastructure at our plant. Our cable is being used in steel plants, wind mills, port trusts, power generating units, cement plants, sugar industries & many more.



HT XLPE insulated MV grade power cables (up to 33 KV grade):

Narayan Trading Company offers an unique design of **HT power cable** conductor with high degree of compactness (with filling factor of 94%) to achieve better conductivity, low loss. This ensures reduced overall dia of cable, without any compromise in electrical parameters and thereby performance.



Aluminium (H2/H4 grade) of EC grade 61.5% compact circular stranded conductor is used for cables from 3.3 KV grade to 33 KV (E) grade.

As a leading **HT XLPE manufacturer India**, XLPE insulation is processed by Sioplas system, which is the most popular technology in cable manufacturing process throughout the world for MV grade, which offers equal properties in comparison with cable with dry curing process, is manufactured and tested in our most modern equipped test laboratory under stringent quality check. (refer to the WHY SIOPLUS chapter in our website). Conductor and insulation is shielded by extruded semiconducting tape with lapped semiconducting tape (optional).

Being a renowned **HT power cable** manufacturer, GI steel strip or round wire are used as per standard design for Multicore cables and aluminium hard drawn wire armour for single core cables.

Outer sheath with black coloured PVC outer sheath of type ST2 for XLPE cables are offered as per relevant BIS. Outer sheath with different colours are also manufactured on demand.

The **HT power cables** offered by the company are highly appreciated by the clients due to its lightweight design. Being one of the prestigious **HT XLPE manufacturers India**, the company Manufactures and Exports premium XLPE Power Cables that have easier jointing and termination. Narayan Trading Company being the best **HT XLPE manufacturer India** has a smaller bending radius in our **XLPE Power Cable**. **HT Power Cable** is heat resistant and does not soften at higher temperatures. It also has better resistance to stress cracking and good resistance to ageing in hot air. With the change of structure there is no adverse effect on electrical properties.



NARAYAN TRADING CO.

Manufacturer of -



LT XLPE/PVC insulated power cables :

Narayan Trading Company, as a leading **LT Power Cable manufacturer in India**, offers an unique design of conductor with high degree of compactness (with filling factor of 94%) to achieve better conductivity, low loss. This ensures reduced overall dia of cable, without any compromise in electrical parameters and thereby performance. This process is followed for stranded conductor from 16/25 sq.mm onwards.

For unarmoured cables, Narayan Trading Company being one of the renowned **LT Power Cable manufacturers in India** recommends to offer only uni-sheath rather processing inner sheath and outersheath separately. This ensures better bondage of cores and effective strength of cables.

Available with Aluminium conductor (H2/H4 grade), Electrolytic grade of copper (with density of 8.94 per Cm³) up to 1000 sq.mm for single core and 630 sq.mm for Multicore cables. Similarly, control cables are manufactured in 1.5 and 2.5 sq.mm up to 61 cores.

GI steel strip or round wire are used as per standard design for Multicore cables and aluminium hard drawn wire armour for single core cables.

Outer sheath with black coloured PVC outer sheath with type ST1 type for PVC cables and ST2 for XLPE cables are offered as per relevant BIS. Outer sheath with different colours are also manufactured on demand.

Narayan Trading Company Cable is a well known **LT Power Cable manufacturers in India**, and provide the clients a world-class range of LT Power Cable which is fabricated using high quality material. LT Power Cables are suitable for diverse purposes and comes in various colors and diameters, as per the requirement of the application.



Power Cables

Cables are of various types and varieties, with each designed to perform a specific function. The performance and the durability of the cables depend on the quality of its raw materials. Every cable has a distinguished construction, which differentiates it from others. Power cables and Control cables, which are often confused for one another, but do bear certain homogeneity. However, it is this difference that makes them stand unique amidst the crowd of cables.

Control cables as their name suggests, send signals to control the functioning of an equipment. Belonging to the family of instrumentation cables, these cables allow distribution of data or signals that have low voltage. Designed specifically for automation controls, these cables have a copper conductor, which is enveloped in galvanized steel braid. Usually used for regions that require less than one ampere, these cables can carry signals up to 40 volts. These cables



NARAYAN TRADING CO.

Manufacturer of -



usually bear a PVC insulation that protects them from impacts and harsh climatic conditions.

Like Power cables, there are different types of Control cables, which are specifically designed to suit various automation and computer applications. Generally twisted in pairs, the Control cables possess a balanced shielding, that reduces interference. Often enveloped in a white external jacket, these cables have their specifications written in black, which provide excellent visibility.

Power cables are cables, which transfer both high energy and low energy from the source to the equipments. Specifically designed to best suit active and neutral environment, these cables bear a thick outer sheath compared to ordinary Control cables. The external sheath of the Power cables with its immense strength and protection enables the cables to transfer high volume of energy without any tension or strain. Unlike Control cables, Power cables often have a unique colour code system that distinguishes the high voltage carriers from their low voltage counterparts. Control cables offer superior resistance to interference, which makes them ideal for sending low voltage signals and power cables are equipped to transfer energy to those equipments which require a maximum of 4160 V for its functioning.

Below are the names of our some valued customers

- | | |
|-----------------------------------|------------------------------|
| > Steel Authority of India Ltd. | > Indian Rare Earths Ltd. |
| > Hindustan Ship Yard Ltd. | > Jindal Stainless Ltd. |
| > Punjab State Electricity Board. | > WMI Cranes Ltd. |
| > Mazagon Dock Ltd. | > NTPC. |
| > Mumbai Port Trust. | > ONGC. |
| > Jindal Saw Ltd. | > Reliance Energy Ltd. |
| > South Eastern Coalfield Ltd. | > Ferro Scrap Nigam Ltd. |
| > Bajaj Electricals Ltd. | > Northern Coalfield Ltd. |
| > Jawaharlal Nehru Port Trust. | > Northern Railway, N. Delhi |
| > Mormugoa Port Trust. | > Bongaioaon Refinery Ltd. |
| > Birla Corporation Ltd. | > Anupam Industries Ltd. |



NARAYAN TRADING CO.

Manufacturer of -



Our Cables are inspected / Tested by following authorities

- | | |
|--------------------------------|-----------|
| > Indian Register of Shipping. | > C.P.R.I |
| > R.I.T.E.S | > G.S.S |
| > LLOYDS | > Q.S.S |
| > E.R.D.A | > N.T.H |



We are among the reputed names in the industry for manufacturing and supplying our customers with a wide assortment of Wires and Cables. The products are made from high grade materials. They are ISI certified and available in various diameters for meeting with the requirements of the clients. Our range of superior wires is accurately cut and stripped, dyed, printed, and packaged to meet the specific cabling and wiring requirements of the customers. Besides, our range is well appreciated by our clientele owing to features like high conductivity, shock proof and durable nature. Our products are manufactured in compliance with the norms of international standards.

Features:

- Available in various diameters
- Good quality copper and PVC

Types of Products :

1. RUBBER CABLES
2. VIR / TRS. ERP / PCP / CSP CABLES
3. CRANE MAGNET CABLE



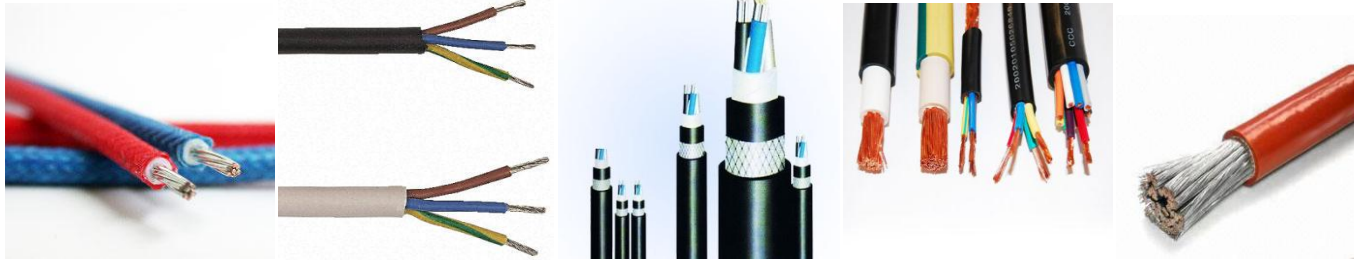


NARAYAN TRADING CO.

Manufacturer of -

Amex
wires and cables

4. SILICON CABLES
5. FIBRE GLASS CABLES
6. HEAT RESISTANCE CABLES
7. TEFLON / PTFE WIRES
8. COMPENSATING CABLES (J.K.R.S. TYPE) UPTO 600"



Shielded Flexible Cable

Product Description

Shielded cables Range: 2 Core to 61 Core, 1 Pair to 24 Pair, Size: 0.5 to 2.5 Sq mm & 2, 3 & 4 Core in Sizes 4 to 6 Sq mm.

We supply different types of Shielded Cables

Shielded with Aluminium Mylar tape & Drain wire which are also called Foiled Shielded Cables.

Shielded with Aluminium Mylar tape & Drain wire along with Tinned copper braiding for 100 % Coverage.

Shielded Cables with Tinned Copper Braiding (ATC).

Types of Shielded Cables to be used depend upon RFI/EMI Interference.



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Manufacturer of -



Application:

These Cables are applied for the signal transmission purpose in industrial application. The use of shielded Cables in security systems provides protection from power frequency and radio frequency interference. Shielded Cables are used basically for indoor application with it's extreme flexibility for electronics control systems of computer, audio/ communication system, electronic circuits, measurement devices, machine design etc. Screening is used to reduce the effects of electromagnetic interference (EMI) or electrical noise which can disrupt the transmission performance in some environments.

Flexible Bare/ Tinned Copper Conductor, PVC Insulated, Cross Laid up/ Paired Overall Aluminium Mylar Tape Shielded along with ATC Drain Wire PVC/ FRLS Outer Sheathed shielded Cables 300/ 500 Volts.

Armoured Version also available in stock.



Steel Reinforced PVC Flexible Conduit

By introducing high tensile spring steel wire for reinforcement which gives very strong crushing resistance, the hoses become ideal for use for conducting electrical wiring, suction, ducting and exhaust of fume gases and for other industrial uses ideally suited for electrical wire conducting, connecting switch boards, bus-bars, switch gears and panels. Excellent flexibility and can be bent on its own axis. Useful for connection of wiring when the hoses are required to be roughly handled. Most ideally suited for making connection in machine tools.

At present the manufacturing range includes hoses type **RT-10** to **RT-200**. Other types in the range will be included progressively at a later date.

High Tensile PVC covered steel wire hose are thin walled and light in weight and are very flexible for industrial purposes. Sizes produced are **10 mm ID** to **200 mm ID**.



NARAYAN TRADING CO.

Manufacturer of -



TECHNICAL INFORMATION

Construction Details

Rolytube hoses have a reinforcement of PVC insulated high carbon grade II spring steel wires from 200 Uts Kg/mm² to 220 UtsKg/mm² (United Tensile Strength). Also available in high grade III for heavy duty pipes.

Super Flexibility

Rolytube is a highly flexible and will flex on its own diameter without deformation or any reduction in its cross section. This special feature reduces installation time in the most unapproachable area of application.

Temperature Resistance

Rolytube normal hoses can withstand a temperature from 150C to 600C and are inherently flame retardant. However hoses can be supplied on special request with heat resistant PVC which can withstand temperatures from -300C to 1050C.

Electrical Resistance

Rolytube hoses have excellent dielectric properties. There is no danger of short circuit taking place due to steel wire, as it is fully insulated with PVC. There are no other harmful effects due to spring steel wire, when used near panels. Infact, it is a kind of an armoring and protects the cable inside.

Self Extinguishing

Rolytube hoses does not propagate fire. It is self-extinguishing. The hose will cease to burn as soon as direct source of flame is removed.

Chemical Resistance

Rolytube hoses resist most chemicals, acids, alkalis, greases, petrol, etc. They are waterproof and suitable for application in damp environments.

Mechanical Resistance

Rolytube hoses have very high crush resistance for development of "kinks" and excellent shockproof properties due to the spring steel wire reinforcement.



NARAYAN TRADING CO.

Manufacturer of -



Characteristics

- It will not "KINK".
- Light in weight.
- Resistant to most Alkalis and Acids.
- Easy to fix.
- No corrosion.
- No paint required.
- Dust proof, Water proof (Low pressure).
- Good mechanical strength.
- Can be bent on its own axis.
- Wide range with fittings.
- Durable.

Applications

- Machinery tool wiring conduits.
- Dust collectors for vacuum cleaners.
- Air ducting for low temperature.
- Gas or fume (Low temperature) removal.
- Low pressure air intakes.
- Electrical conducting for boards and panels.
- Hospital cleaning equipment.
- Shrouds for railway coach wiring.
- Rags collector hoses for industry machinery
- Dust intakes for wood machinery.

Sizes

Sr. No.	Cat No.	Inner Dia of Hose (mm)	Standard Pkgs. (mtrs)	Colour
1	RT 10	10	20 & above	Grey but other colours like Red, Blue, Black can be made on quantity order.
2	RT 15	15	20 & above	
3	RT 20	20	20 & above	
4	RT 25	25	20 & above	



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5	RT 30	30	20 & above
6	RT 40	40	20 & above
7	RT 50	50	20 & above
8	RT 60	60	20 & above
9	RT 75	75	5 & above
10	RT 100	100	5 & above
11	RT125	125	5 & above
12	RT 150	150	5 & above
13	RT 175	175	5 & above
14	RT 200	200	5 & above





NARAYAN TRADING CO.

Manufacturer of -



Contact @

Narayan Trading Co.

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