IS : 694

IS : 1554 (1)

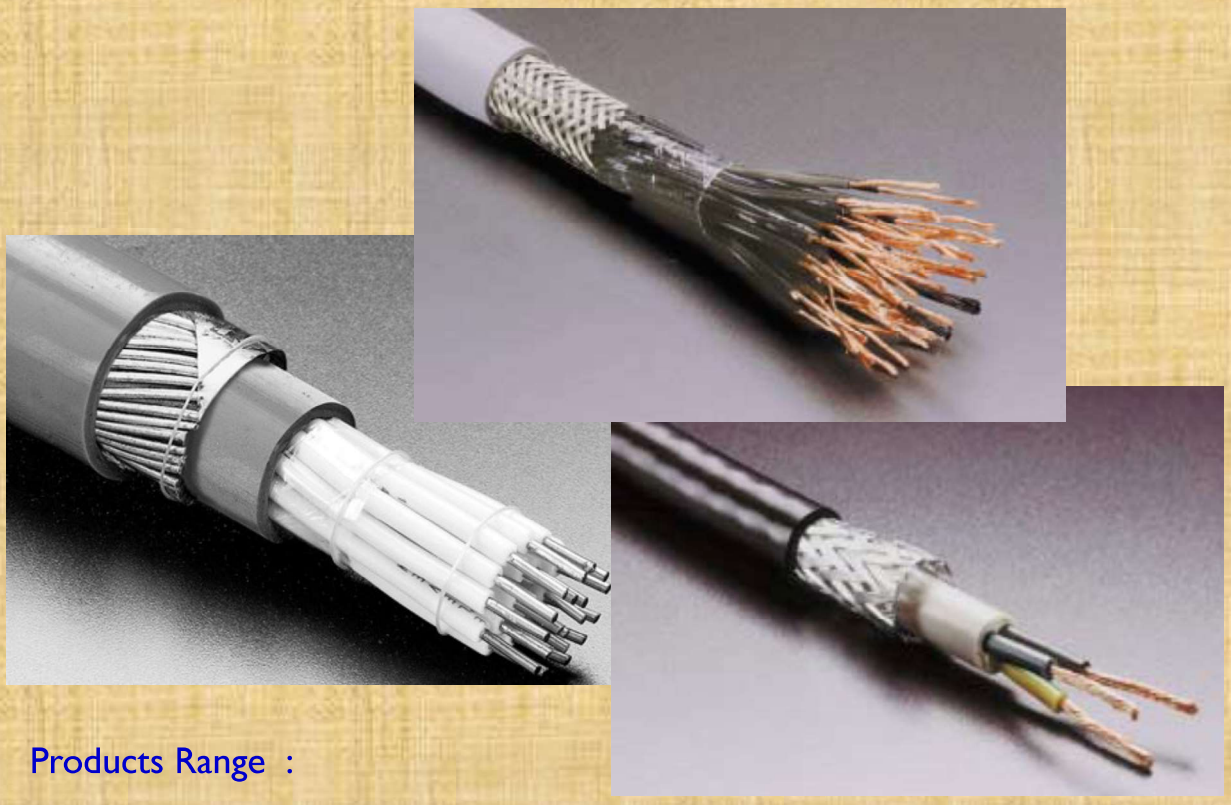
Polytex™

NIMBUS ISO 9001

ASCB(E) Accrediting Certifying Bodies

Polytex™ Cables

AN ISO 9001 : 2000 CERTIFIED COMPANY



Products Range :

- Screen / Shielded Cables
- Instrumentation Cables
- Signal Cables
- Fire alarm security Cables
- PCM Cables
- Compensating Cables
- Coaxial Cables
- Armoured / Unarmoured Cables

CABLE WITH TOTAL QUALITY ASSURANCE

Polytex™ Cables

CERTIFICATE OF REGISTRATION

NIMBUS

Polytex Cables

9, Shukla Compound, W.E. Highway, Opp. Gas Godown,
Near Datta Mandir, Dahisar (E), Mumbai - 400 068, INDIA.

This is to certify that the Quality Management System
of above organisation has been assessed and registered by
Nimbus Certifications Private Limited against the scope of supply and provision of

ISO 9001:2008

Scope : Manufacturing & Supply of PVC Coated Wires and Cables.

Certificate No. :MAH /Q -1006/C1

Re Certificate Date : 21 February 2011

Valid Until : 20 February 2014

EAC Code : 19

IRQAO

ASCB(E)

Managing Director

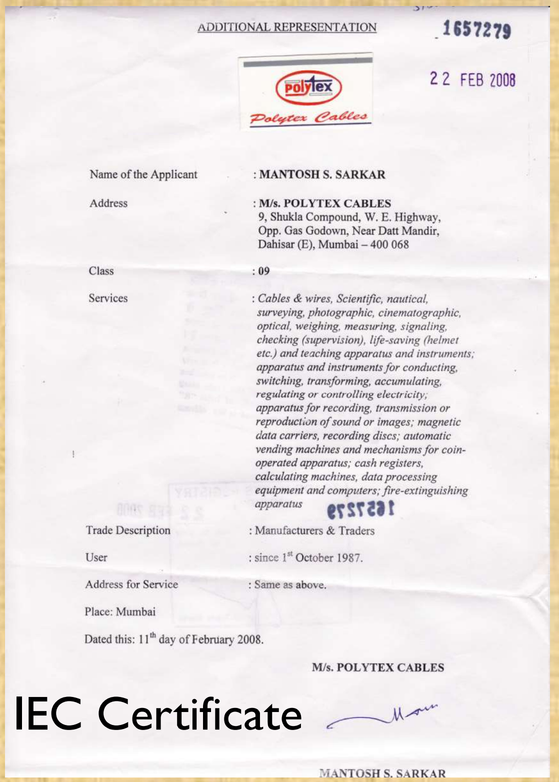
This registration is subject to the company maintaining a management system, to the above standard, which will be monitored by Nimbus Certifications Pvt. Ltd.

This is an accredited certificate authorised for issued by Accreditation Services for Certifying Bodies (Europe) Limited in accordance with ISO 17021 : 2006 "Requirement for Bodies providing Audit and Certification of Management Systems".

... must be returned on request.
... Register Of Quality Assessed Organisations
www.irqao.com. The status of this certificate may be checked at www.nimbuscertifications.com

Nimbus Certification Pvt. Ltd.
#3, New Ashok Nagar B, Vazira, Borivali (W), Mumbai-400091, India.

ISO Certificate



ADDITIONAL REPRESENTATION 1657279

polytex
Polytex Cables

22 FEB 2008

Name of the Applicant	: MANTOSH S. SARKAR
Address	: M/s. POLYTEX CABLES 9, Shukla Compound, W. E. Highway, Opp. Gas Godown, Near Datt Mandir, Dahisar (E), Mumbai – 400 068
Class	: 09
Services	: *Cables & wires, Scientific, nautical, surveying, photographic, cinematographic, optical, weighing, measuring, signaling, checking (supervision), life-saving (helmet etc.) and teaching apparatus and instruments; apparatus and instruments for conducting, switching, transforming, accumulating, regulating or controlling electricity; apparatus for recording, transmission or reproduction of sound or images; magnetic data carriers, recording discs; automatic vending machines and mechanisms for coin-operated apparatus; cash registers, calculating machines, data processing equipment and computers; fire-extinguishing apparatus*
Trade Description	: Manufacturers & Traders
User	: since 1st October 1987.
Address for Service	: Same as above.

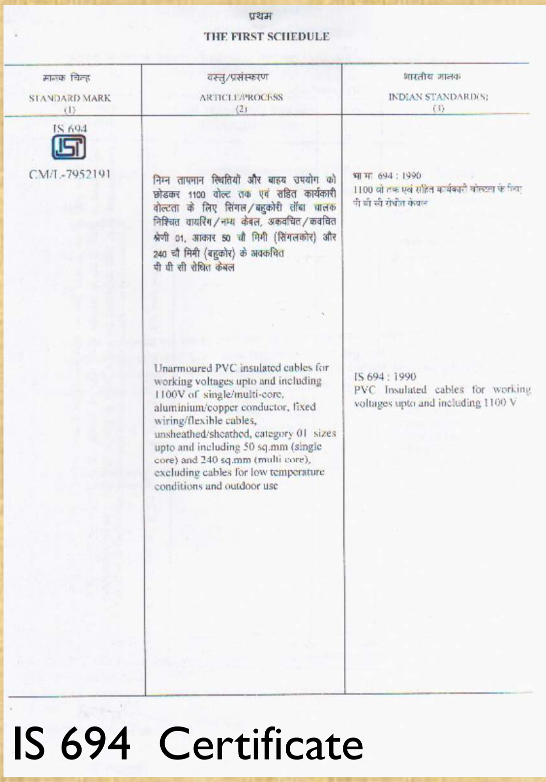
Place: Mumbai

Dated this: 11th day of February 2008.

M/s. POLYTEX CABLES

MANTOSH S. SARKAR

IEC Certificate

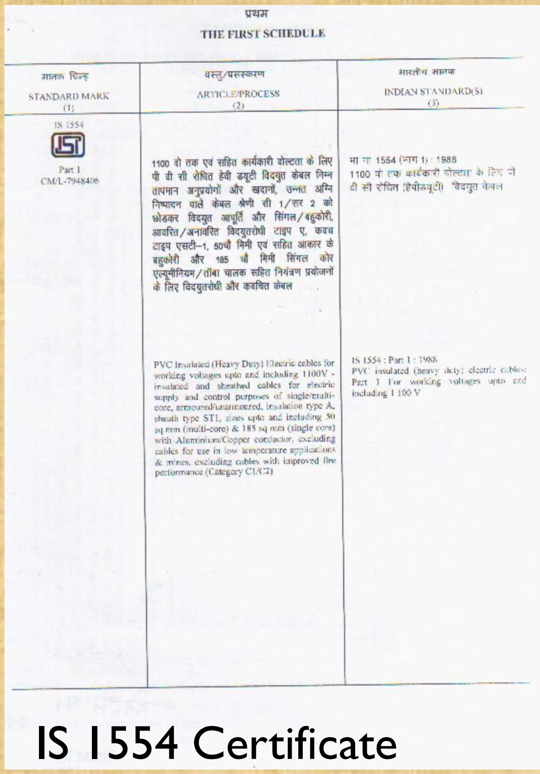


प्रथम

THE FIRST SCHEDULE

मानक चिन्ह STANDARD MARK (1)	वस्तु/प्रसंस्करण ARTICLE/PROCESS (2)	भारतीय मानक INDIAN STANDARD(S) (3)
IS 694 CM/L-7952191	निम्न तापमान स्थितियों और बाहय उपयोग को छोडकर 1100 वोल्ट तक एवं सहित कार्यकारी वोल्टता के लिए सिंगल/बहुकोरी ताँबा चालक निश्चित वायरिंग/नम्य केबल, अकवचित/कवचित श्रेणी 01, आकार 50 वौ मिमी (सिंगलकोर) और 240 चौ मिमी (बहुकोर) के अवकचित पी वी सी रोधित केबल	भा मा 694 : 1990 1100 वो तक एवं सहित कार्यकारी वोल्टता के लिए पी वी सी रोधित केवल
	Unarmoured PVC insulated cables for working voltages upto and including 1100V of single/multi-core, aluminium/copper conductor, fixed wiring/flexible cables, unsheathed/sheathed, category 01 sizes upto and including 50 sq.mm (single core) and 240 sq.mm (multi core), excluding cables for low temperature conditions and outdoor use	IS 694 : 1990 PVC Insulated cables for working voltages upto and including 1100 V

IS 694 Certificate



प्रथम

THE FIRST SCHEDULE

मानक चिन्ह STANDARD MARK (1)	वस्तु/प्रसंस्करण ARTICLE/PROCESS (2)	भारतीय मानक INDIAN STANDARD(S) (3)
IS 1554 Part 1 CM/L-7948406	1100 वो तक एवं सहित कार्यकारी वोल्टता के लिए पी वी सी रोधित हेवी ड्यूटी विदयुत केबल निम्न तापमान अनुप्रयोगों और खदानों, उन्नत अग्नि निष्पादन वाले केबल श्रेणी सी 1/सर 2 को छोडकर विदयुत आपूर्ति और सिंगल/बहुकोरी, आवरित/अनावरित विदयुतरोधी टाइप ए, कवच टाइप एसटी–1, 50चौ मिमी एवं सहित आकार के बहुकोरी और 185 चौ मिमी सिंगल कोर एल्यूमीनियम/ताँबा चालक सहित नियंत्रण प्रयोजनों के लिए विदयुतरोधी और कवचित केबल	भा मा 1554 (भाग 1) : 1988 1100 वो तक कार्यकारी वोल्टता के लिए पी वी सी रोधित (हैवीड्यूटी) विदयुत केबल
	PVC Insulated (Heavy Duty) Electric cables for working voltages upto and including 1100V - insulated and sheathed cables for electric supply and control purposes of single/multi-core, armoured/unarmoured, insulation type A, sheath type ST1, sizes upto and including 50 sq mm (multi-core) & 185 sq mm (single core) with Aluminium/Copper conductor, excluding cables for use in low temperature applications & mines, excluding cables with improved fire performance (Category C1/C2)	IS 1554 : Part 1 : 1988 PVC insulated (heavy duty) electric cables: Part 1 For working voltages upto and including 1 100 V

IS 1554 Certificate

Table of Contents

Polytex™ Cables

INTRODUCTION

About Us :

Established in 1987, "**POLYTEX CABLES**" is the leading brand in cables, especially in screen / shielded Cables. We have made an impression throughout the industrial verticals with our various range in cables…..i.e., Screen / Shielded Cables Instrumentation Cables, PCM Cables, Compensating Cables, CCTV Cables, Coaxial Cables, Telephone Cables. We started with a vision to revolutionize the industry by offering a quality cable at a competitive price. The combination of cutting edge technology & proactive client services has helped us to meet the exact requirement of our client as per the industry standards. We are making huge investments in product innovation, development, technological up gradation & quality control to spread our wings.

Our dedication towards "Customer Satisfaction" and "Stringent Quality Control" had made **POLYTEX** a reliable name in the industry.

Quality Policy :

Planning :

Keeping in mind "Total Quality Assurance"…. we produce products on customer needs and expectations. We are constantly updating ourselves on changing the technological trends to face the global challenges. Utmost Care is taken to see that only the best raw material goes in making all **POLYTEX** products.

We have a team of dedicated technicians who are committed to do their best, promising that only the best finished product reaches our valued customers.

VISION :

Our vision has always been to provide the most reliable and productive solution to the day-to-day demand, at a price that gives the value to all our customers.

MISSION :

Maintain the quality standards to strengthen the brand for customer satisfaction.

Polytex™ Cables

INFRASTRUCTURE :

Manufacturing :

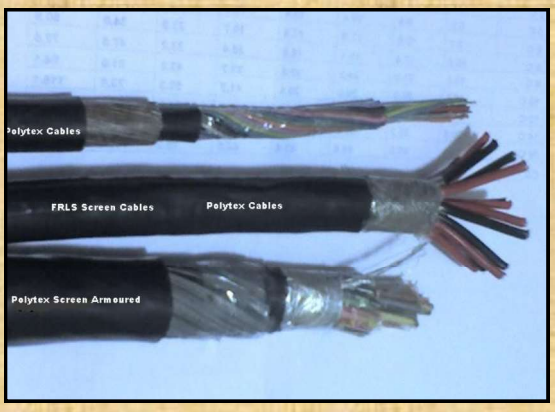
The only intention of us is to deliver high-quality product and services to our customer. We follow a universal policy throughout the process from taking order till dispatch for each and every customer. Not only we deliver a high quality product but also maintain a strict time regime. To maintain this we are making huge investments in technological upgradation and quality control.

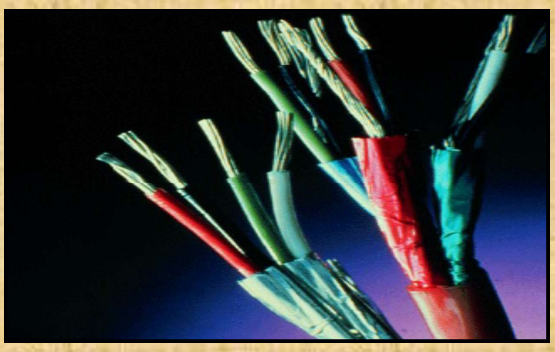
Production :

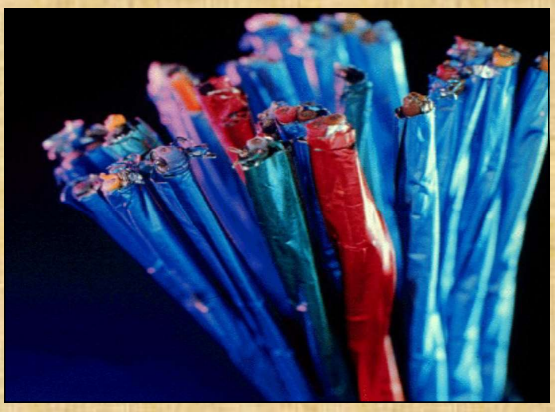
Our production decision focus on what goods to produce, how to produce, the cost of producing them etc…..This information is compared with the market information which helps us to quantify the production, to generate a marginal revenue for "optimal pricing", resulting a high quality cable at competitive rates.

Specialized in Signal Cables (Armoured / Unarmoured)

Polytex™ Cables







PRODUCTS:

Screen / shielded cables:

We are one of the leaders in the market for screen / shielded cables. We provide both copper braided or aluminum mylar with 0.5 sq mm drain wire type, as per the requirement.

Purpose of Shielding

Shielding protects the signal from external interference, cable contains electrical energy so that the signal on the cable does not radiate and interfere with the signals in the nearby cables and circuitry. We provide minimum 75% shielding coverage in Copper braiding and with 50% overlap providing 100% coverage in Aluminum Mylar type for better results.

Braided shield are more effective at low frequency i.e..... for EMI.

Foil shield are more effective at high frequencies i.e.... for RFI.

Benefits of **POLYTEX** Screen Cables:

- Improved Attenuation.
- Improved Power Sum Crosstalk.
- Less noise interference.

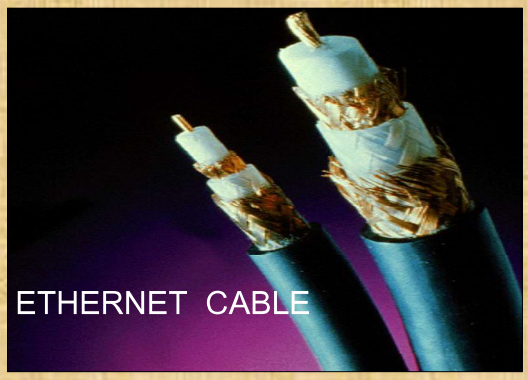
POLYTEX CABLES has specialized in **INSTRUMENTATION** Pair Cables (individual / Overall) . As frequency increases, Near End Cross Talk increases Exponentially.

POLYTEX screen cables are widely used in secure communication, high concentration of electrical equipments, industrial factory floor etc....

Our manufacturing range of cables are from 0.5 sq mm till 25 sq mm. Both **UNARMOURED & ARMOURED** cable.

Specialized in Screen Cables (Armoured / Unarmoured)

Polytex™ Cables



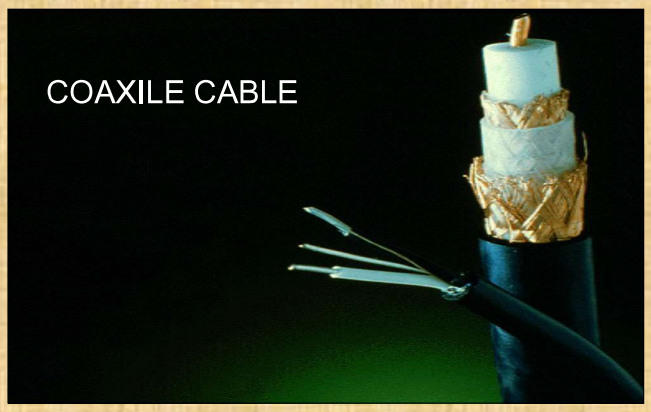
ELECTRICAL PARAMETERS	CABLE TYPE		
	RG 11F	RG 6F	RG 59F
Center conductor (Max. resistance at 20°)	0.85 ohm/100 mtr.	2.14 ohm/100 mtr.	3.55 ohm/100 mtr.
Nom. Capacitance (PF/Mtrs.)	53 ± 3	53 ± 3	53 ± 3
Characteristics Impedance (Ohms)	75 ± 3	75 ± 3	75 ± 3
Nom. Velocity Ratio (%)	85	85	85
Attenuation @ 20°c (db/100 Mtrs.) at			
5 MHz	1.25 db	1.95 db	2.82 db
55 MHz	3.15 db	5.20 db	6.73 db
211 MHz	6.23 db	9.50 db	12.47 db
250 MHz	6.72 db	10.50 db	13.45 db
300 MHz	7.38 db	11.50 db	14.60 db
350 MHz	7.94 db	12.45 db	15.75 db
400 MHz	8.53 db	13.30 db	16.73 db
450 MHz	9.02 db	14.35 db	17.72 db
550 MHz	9.97 db	15.70 db	19.52 db
600 MHz	10.43 db	16.45 db	20.34 db
750 MHz	11.97 db	18.35 db	22.87 db
865 MHz	13.05 db	19.95 db	24.67 db
1000 MHz	14.27 db	21.45 db	26.64 db

Coaxial Cables:

We have wide range of coaxial cables namely RG 6, RG 8, RG 11, RG 58, RG 59, RG 62, Ethernet Cables , CCTV Cables for the application in CATV network..

The conductor used are of electrolytic grade 99.9% pure copper for better signal transmission. The accurate percentage of Copper braiding ensure low less in signal quality for better reception, Provides higher bandwidth, low attenuation value.

At **POLYTEX** armoured Cables can also be supplied for underground application.



CONSTRUCTION PARAMETERS	CABLE TYPE		
	RG 11F	RG 6F	RG 59F
CENTER CONDUCTOR Nom. Dia. (mm)	Solid bare copper 1.63	Solid bare copper 1.02	Solid bare copper 0.80
DIELECTRIC Nom. Dia. (mm)	Foam PE 7.11	Foam PE 4.57	Foam PE 3.55
OUTER CONDUCTOR 1st Shield 2nd Shield Min. Coverage (%)	Al-Foil Bonded Al-Alloy Braiding 60	Al-Foil Bonded Al-Alloy Braiding 60	Al-Foil Bonded Al-Alloy Braiding 60
Flooding Compound	Jelly	Jelly	Jelly
JACKET Nom. Dia. (mm)	PVC Black 10.30	PVC Black 7.25	PVC Black 6.20
BENDING RADIUS (mm)	70	60	60

Specialized in Coaxile Cables (Armoured / Unarmoured)

Polytex™ Cables

Compensating Cables :

A thermocouple is a sensor for measuring temperature. It consists of two different metals, which is heated or cooled, a voltage is generated that can be measured to the temperature. A thermocouple is available in different combination of metals or calibration.

The four most common Calibrations are J, K, T & E Type. Although the thermocouple calibration dictates the temperature range, the maximum range is also limited, by the diameter of the thermocouple wire i.e. a very thin thermocouple may not reach the full temperature. And we at **POLYTEX** do take care of it.

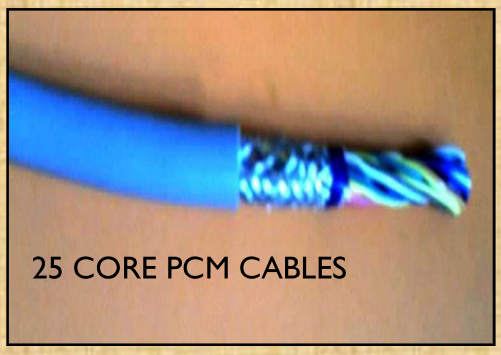
Common Thermocouple Temperature Ranges

Calibration	Temp Range	Std. Limits of Error	Spec. Limits of Error
J	0°C to 750°C (32°F to 1382°F)	Greater of 2.2°C or 0.75%	Greater of 1.1°C or 0.4%
K	–200°C to 1250°C (–328°F to 2282°F)	Greater of 2.2°C or 0.75%	Greater of 1.1°C or 0.4%
E	–200°C to 900°C (–328°F to 1652°F)	Greater of 1.7°C or 0.5%	Greater of 1.0°C or 0.4%
T	–250°C to 350°C (–328°F to 662°F)	Greater of 1.0°C or 0.75%	Greater of 0.5°C or 0.4%

ANSI Code	ANSI MC 96.1 Color Coding: Thermocouple Grade	ANSI MC 96.1 Color Coding: Extension Grade	Alloy Combination: + Lead	Alloy Combination: – Lead	Comments Environment Bare Wire	Maximum T/C Grade Temp. Range	EMF (mV) Over Max. Temp. Range	IEC 584-3 Color Coding: Thermocouple Grade	IEC 584-3 Color Coding: Intrinsically Safe	IEC Code
J			IRON Fe (magnetic)	CONSTANTAN COPPER-NICKEL Cu-Ni	Reducing, Vacuum, Inert. Limited Use in Oxidizing at High Temperatures. Not Recommended for Low Temperatures.	–210 to 1200°C –346 to 2193°F	–8.095 to 69.553			J
K			CHROMEGA® NICKEL-CHROMIUM Ni-Cr	ALOMEGA® NICKEL-ALUMINUM Ni-Al (magnetic)	Clean Oxidizing and Inert. Limited Use in Vacuum or Reducing. Wide Temperature Range, Most Popular Calibration	–270 to 1372°C –454 to 2501°F	–6.458 to 54.886			K
T			COPPER Cu	CONSTANTAN COPPER-NICKEL Cu-Ni	Mild Oxidizing, Reducing Vacuum or Inert. Good Where Moisture Is Present. Low Temperature & Cryogenic Applications	–270 to 400°C –454 to 752°F	–6.258 to 20.872			T
E			CHROMEGA® NICKEL-CHROMIUM Ni-Cr	CONSTANTAN COPPER-NICKEL Cu-Ni	Oxidizing or Inert. Limited Use in Vacuum or Reducing. Highest EMF Change Per Degree	–270 to 1000°C –454 to 1832°F	–9.835 to 76.373			E

Specialized in Compensating Cables (Armoured / Unarmoured)

Polytex™ Cables



25 CORE PCM CABLES

20 PAIR PCM CABLE

PCM Cables:

POLYTEX have specialized in PCM Cables. This are pair Cables use majorly in mobile Communication antenna installation. The TIN Copper Conductor used of 0.51 mm size is electrolytic type i.e. 99.9% purity. As well the pairing done is close and uniform through out the length to provide better transmission. We provide 80-85 % of braiding coverage.

Due to this precise construction **POLYTEX** PCM cables are more preferred brand in the market for mobile technology.

Armoured Cables can also be supplied for underground application.

Tailor-made Cables:

POLYTEX been in the market for so many decade we under stand the customers and there requirement. With our technical expertise we can construct any kind of cable in PVC within our manufacturing range .

For Example :

The picture beside is as described

Four different colour inner consisting of different size core i.e.

1)**Black inner** : 1.0 Sqmm Single core screened. 2) **Grey inner** : 1.0 Sqmm two core screened. 3)**Blue inner** : 0.5 Sqmm two core screened. 4)**Red inner** : 1.5 Sqmm two core screened.

This four inner are stranded together and over all screened and Coated with PE material.

The customers required this for under water equipment.

Specialized in PCM Cables (Armoured / Unarmoured)

Polytex™ Cables

Special Cables:

We at **POLYTEX** are self reliant in manufacturing cables with new design in PVC Compound Till 28 mm Cable Size.

We are also well verse with how to produce FRLS CABLES , H R CABLES, F R CABLES.

Any of the Cables described in the catalog can be made into FRLS, FR,HR.

Small test Specification of FRLS PVC:

TEST REPORT FOR FRLS

Properties	Method	Units	Results
Specific Gravity	ASTMD 792	–	1.58
Hardness after 15 sec.	ASTMD2240	Shore A	89
Thermal Stability @ 200°C	IS 5831	Min.	98
Volume Resistivity	ASTMD 257	* 10^{14} ohmsec	2.7
Tensile strength	IS 10810 Part7	Kg/cm2	13.5
Elongation at Break	IS 10810 Part7	%	190
SDR avg.	ASTMD 2863	%	59
SDR peak	ASTMD 2863	%	80
LOI	ASTMD 2843	%	30
HCL Emission	IEC 754 Part 1	%	18

Specialized in Fire Alarm Cables (Armoured / Unarmoured)

Polytex™ Cables

Lab Equipments

For Physical dimension	:	a) Micrometer. b) Vernier Caliper. c) Travelling Microscope.
For Tensile Strength	:	Tensile testing M/c 12.5 N/mm^2 min.
For Elongation	:	Scale 0– 300 mm.
For HV test	:	AC — 0– 6 KW. DC — 0– 1.5 KW. Water bath with heater & thermostat.
For Heat Shock test	:	Mandrel.
For Conductor resistance	:	Digital mega ohm meter.
For Ageing test	:	Aging Oven (temp. upto 135° C ±2°C).
For Hot Deformation test	:	Hot air Oven (temp. upto 250°C ± 2°C).
For Flammability test	:	Flammability test Chamber.
Other Apparatus	:	Weighing Balance. Dumbell cutter. Spark tester. Thermal Stability test apparatus.

Testing Equipments

Polytex™ Cables

Individual and Overall Shielded Instrumentation Cables per BS 5308 Part 1 Type 1

APPLICATIONS

- For cable tray installation in intrinsically safe environment.
- For transmission of analog or digital signals designed for process control

STANDARDS

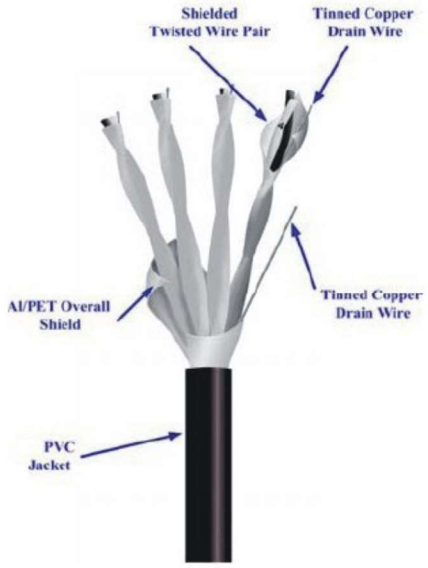
- BS 5308 Part 1, Type 1

CONSTRUCTION

Conductor:	Stranded annealed bare copper complying with BS 5308 Part 1
Insulation:	Polyethylene complying with BS 6234 Type 03 with a radial thickness of 0.6 mm
Pairs:	Two cores are twisted into pairs in nominal lays of 50 to 60 mm
Color Code:	Black / white with successive numbers, or per color code conforming to BS 5308 Part 1
Individual Shielding:	Each pair is individually shielded with a polyester/aluminum (AL/PET) foil, aluminum side facing inwards; 125% coverage
Pair drain Wire:	0.5 mm^2 tinned copper
Cabling:	The pairs are cabled into a cable core
Overall Shielding:	Shielded with a polyester/aluminum (AL/PET) foil, aluminum side facing inwards. 100% coverage.
Overall drain wire:	0.5 mm^2 tinned copper
Outer jacket:	Black FR PVC complying with BS 6746 Type 6 or Type TM1

RATING

- Operating temperature range -10°C to 90°C
- 300 Vrms 90°C
- Fire retardancy per IEC 60332-1, UL-1581 VW-1
- Cables meeting IEC-60332-3C are available



ELECTRICAL PROPERTIES

- **Max. DC Resistance @ 20°C**:
  0.5 mm^2 - 39.7 Ohm/km
  0.75 mm^2 - 26.5 Ohm/km
  1.0 mm^2 - 18.5 Ohm/km
  1.5 mm^2 - 12.3 Ohm/km
- **Mutual capacitance @ 25°C/1kHz:**
  115 pF/m
- **Dielectric Strength**:
  Insulation - 2000 Vdc / 1 min. between conductors
  Sheath - 5000 Vdc / 1 min

MARKING

Cables are marked as follows:

POLYTEX CABLES

THE ABOVE DATA IS INDICATIVE AND MAY BE REVISED WITHOUT PRIOR INFORMATION

DATA MANUAL

Individual and Overall Shielded Instrumentation Cables per BS 5308 Part 1 Type 1

Cable Construction, Dimensions and Weights

Sequential No.	Size mm²	Pairs = P Triads = T	No. of Pairs /Triads	Radial Thickness Sheath mm	Cable Nominal Diameter mm	Cable Nominal Weight kg/km
1	0.5	P	1	0.9	6.4	52
2	0.5	P	2	1.1	11.2	103
3	0.5	P	5	1.2	14.5	193
4	0.5	P	10	1.3	20.3	340
5	0.5	P	15	1.5	23.8	488
6	0.5	P	20	1.5	26.5	613
7	0.5	P	24	1.7	29.9	746
8	0.75	P	1	0.9	6.8	59
9	0.75	P	2	1.1	12.0	118
10	0.75	P	5	1.2	15.6	225
11	0.75	P	10	1.3	22.0	403
12	0.75	P	15	1.5	25.8	583
13	0.75	P	20	1.7	29.1	763
14	0.75	P	24	2.0	33.0	940
15	1.0	P	1	0.9	7.2	66
16	1.0	P	2	1.1	12.7	132
17	1.0	P	5	1.2	16.5	258
18	1.0	P	10	1.3	23.3	467
19	1.0	P	15	1.5	27.3	675
20	1.0	P	20	1.7	30.8	887
21	1.0	P	24	2.0	35.0	1092
22	1.5	P	1	0.9	7.8	80
23	1.5	P	2	1.2	14.1	167
24	1.5	P	5	1.3	18.3	327
25	1.5	P	10	1.5	26.1	610
25	1.5	P	15	1.7	30.5	880
27	1.5	P	20	1.7	34.0	1225
28	1.5	P	24	2.0	38.6	1380

All cable dimensions and weights are subject to normal manufacturing tolerances.

THE ABOVE DATA IS INDICATIVE AND MAY BE REVISED WITHOUT PRIOR INFORMATION

Polytex™ Cables

AS per IS 694 specs for Single Core

Area in Sq. mm	Conductor Construc-tion in General	Cond. Dia. in mm	Max. DC Resistance Ohm/Km At 20°C	Insulation Thickness in mm Nominal	Cables Dia (Approx.)	Current Rating in Amp.	Area in Sq. mm	Conductor Construc-tion in General	Conductor Dia. In mm	Max DC Resistance Ohm/Km At 20°C	Insulation Thickness in mm Nominal	Cable Dia (Approx.)	Current Rating In Amp.
0.50	16/0.20	0.94	39.00	0.60	2.20	4	70	360/0.50	12.30	0.272	1.6	15.5	170
0.75	24/0.20	1.20	26.00	0.60	2.50	7	95	485/0.50	14.70	0.206	1.8	18.5	210
1.00	32/0.20	1.34	19.50	0.60	2.60	11	120	608/0.50	16.70	0.161	2.0	20.9	235
1.50	*30/0.25	1.64	13.30	0.60	2.90	14	150	750/0.50	18.30	0.129	2.0	22.5	295
2.50	**50/0.25	2.08	7.98	0.70	3.50	19	185	925/0.50	20.00	0.106	2.2	24.6	330
4.00	56/0.30	2.61	4.95	0.80	4.30	26	240	1221/0.50	23.00	0.0801	2.2	27.6	400
6.00	84/0.30	3.50	3.300	0.80	5.30	33	300	1527/0.50	27.20	0.0641	2.4	32.2	475
10.00	140/0.30	4.60	1.910	1.00	6.70	45	400	2036/0.50	30.50	0.0486	2.6	35.7	550
16.00	126/0.40	6.00	1.210	1.00	8.20	60	500	2540/0.5	32.00	0.0384	2.8	38.0	635
25.00	196/0.40	7.60	0.780	1.20	10.00	75	630	3200/0.5	39.00	0.0287	3.0	45.5	725
35.00	276/0.40	8.70	0.554	1.20	11.3	95	800	4100/0.5	44.00	0.0224	3.4	51.0	840
50.00	396/0.40	10.60	0.386	1.40	13.5	125	1000	5100/0.5	46.00	0.0178	3.4	53.0	950

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DATA MANUAL

AS per IS 694 specs for Multi-Core

Area Sq. MM		0.50	0.75	1.00	1.50	2.50	4.00
General Construction no./dia		16/0.2	24/0.2	32/0.2	*30/0.25	**50/0.25	56/0.3
Conductor Dia in MM		0.94	1.20	1.34	1.64	2.08	2.61
Avg. Insu. thickness in MM		0.60	0.60	0.60	0.60	0.70	0.80
Core Dia in MM		2.20	2.50	2.60	2.90	3.50	4.30
No. of Cores							
6	Avg. Sheath thickness MM	0.90	1.00	1.00	1.00	1.10	1.20
	App. Overall Dia MM	8.50	9.50	9.80	10.70	12.70	15.30
7	Avg. Sheath thickness MM	0.90	1.00	1.00	1.00	1.10	1.20
	App. Overall Dia MM	8.50	9.50	9.80	10.70	12.70	15.30
8	Avg. Sheath thickness MM	1.00	1.00	1.00	1.10	1.20	1.30
	App. Overall Dia MM	9.30	10.40	10.70	11.90	14.10	16.90
10	Avg. Sheath thickness MM	1.00	1.10	1.10	1.10	1.30	1.40
	App. Overall Dia MM	10.80	12.20	12.60	13.80	16.60	20.00
12	Avg. Sheath thickness MM	1.00	1.10	1.10	1.10	1.30	1.40
	App. Overall Dia MM	11.20	12.60	13.00	14.30	17.20	20.70
14	Avg. Sheath thickness MM	1.10	1.10	1.10	1.20	1.30	1.40
	App. Overall Dia MM	12.00	13.30	13.70	15.20	18.10	21.80
16	Avg. Sheath thickness MM	1.10	1.20	1.20	1.20	1.40	1.50
	App. Overall Dia MM	12.60	14.20	14.60	16.00	19.30	23.20
19	Avg. Sheath thickness MM	1.10	1.20	1.30	1.30	1.40	1.50
	App. Overall Dia MM	13.20	14.90	15.60	17.10	20.30	24.50
24	Avg. Sheath thickness MM	1.20	1.30	1.30	1.40	1.40	1.50
	App. Overall Dia MM	15.60	17.60	18.20	20.20	23.80	28.80
30	Avg. Sheath thickness MM	1.30	1.30	1.30	1.40	1.40	1.50
	App. Overall Dia MM	16.80	18.70	19.30	21.50	25.70	30.60
	Max. Conductor Resistance in OHm/Km at 20°C.	39.00	26.00	19.50	13.30	7.98	4.95
	Recommended Current Rating in AMP	4	7	11	14	19	26

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Polytex™ Cables

AS per IS 694

Area in Sq. mm	Construc-tion No./Dia	Cond. Dia. in mm	Max. DC resist-ance Ohm/Km at 20°C	Insulation thickness nominal mm	Core dia. mm	Sheath thickness in mm nominal			Overall Diameter in mm approx.			Current Rating Amp.
						2 core	3 core	4 core	2 core	3 core	4 core	
0.50	16/0.2	0.94	39.00	0.60	2.20	0.90	0.90	0.90	6.20	6.60	7.20	4
0.75	24/0.2	1.20	26.00	0.60	2.50	0.90	0.90	0.90	6.80	7.20	7.90	7
1.00	32/0.2	1.34	19.50	0.60	2.60	0.90	0.90	0.90	7.00	7.50	8.10	11
1.50	*30/0.25	1.64	13.30	0.60	2.90	0.90	0.90	1.00	7.60	8.10	9.00	14
2.50	**50/0.25	2.08	7.98	0.70	3.50	1.00	1.00	1.00	9.00	9.60	10.50	19
4.00	56/0.3	2.61	4.95	0.80	4.30	1.00	1.00	1.00	10.60	11.30	12.40	26

Area in Sq. mm	Construc-tion No./Dia	Cond. Dia. in mm	Max. DC resist-ance Ohm/Km	Insulation thickness nominal at 20°C	Core dia. mm	Sheath thickness in mm nominal			Overall Diameter in mm approx.			Current Rating Amp.
						2 core mm	3 core	4 core	2 core	3 core	4 core	
6	84/0.3	3.50	3.30	0.80	5.10	1.15	1.15	1.40	12.60	13.40	15.20	33
10	140/0.3	4.60	1.91	1.00	6.60	1.40	1.40	1.40	16.00	17.00	18.80	45
16	126/0.4	6.00	1.21	1.00	8.00	1.40	1.40	1.40	18.80	20.10	22.20	60
25	196/0.4	7.60	0.780	1.20	10.00	2.00	2.00	2.00	24.00	25.60	28.20	75

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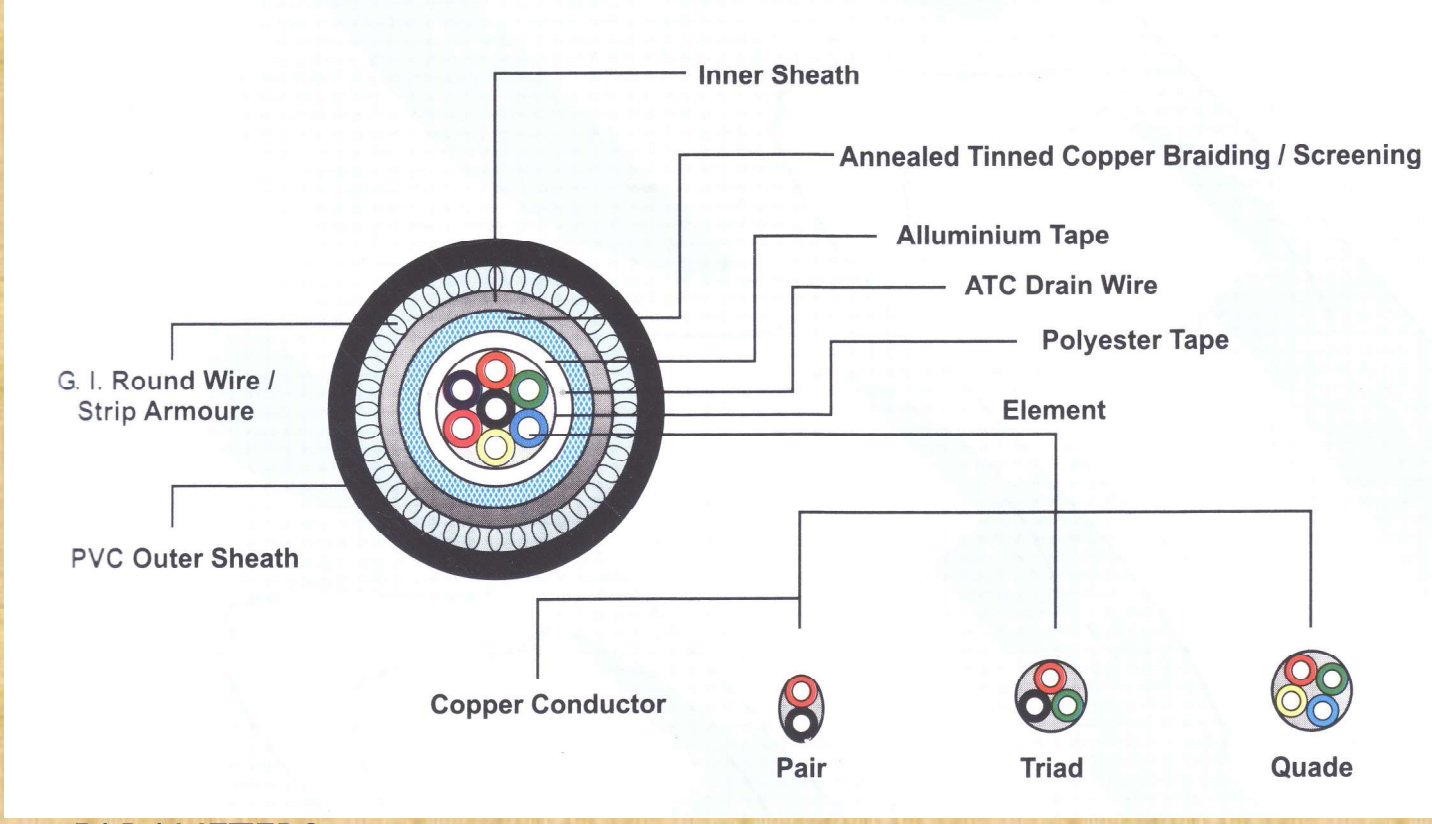
DATA MANUAL

CONSTRUTION OF A TYPICAL INSTRUMENTATION CABLES



PARAMETERS

Conductor	:	Electrolytic copper (Bare/Tinned, Solid/ Multistranded)
Insulation	:	Type A, B, C compound as per IS: 5831 (rated upto 70° C to 85° C), Polyethylene, FR, FRLS,
Types	:	Pair/ Traid/ Quad
Laying	:	Cores are laid up in sequence with a required pitch
Shielding	:	Aluminum tape with 0.5 Sqmm drain wire (for individual/ overall shielding) OR ATC Braided
Armouring	:	Galvanized steel wire/ strip
Sheathing	:	Grade Type ST –1 / ST– 2 (HR, FR, FRLS)

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