

IS : 694



IS : 1554
(PART - 1)

IS : 7098



(PART - 1)



BRIMSON®

AN ISO 9001 CERTIFIED CO.

CE

Electrical Wires & Cables

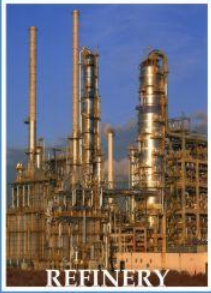


BRIMSON

CABLES PRIVATE LIMITED



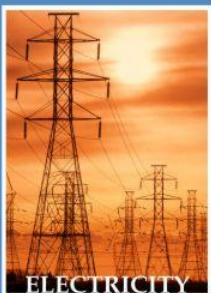
INDUSTRIES



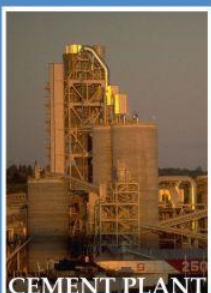
REFINERY



BUILDERS



ELECTRICITY



CEMENT PLANT



BRIMSON Cables, a product of advance technology know-how and vast experience in the field of cable manufacturing, is one of pioneer brand of cables in India in the field of Domestic as well as Industrial Electrical Wires & Cables.

BRIMSON Cables are manufactured with latest plant and machinery in our factory located in most prestigious “Noida” Industrial area.

At **BRIMSON** Cables, the dedicated team of experienced professionals, skilled staff, the use of best quality raw materials, stringent quality control measure at every stage of production enables us to meet high quality standards required by our prestigious customers like Northern Coalfield, Keltron, NTPC, CMS Traffic Systems Ltd., West Bengal Agro Industries, ECE Industries Ltd., Manikgarh Cements, Nevyell Lignites, BARC, Chattisgarh Electricity Board, Rajasthan Electricity Board, NHPC, U.P. Power Corporation, MES, HUDA, MSEB, PWD, BHEL, Northern Railways etc.

We are in possession of ISI license issued by Bureau of Indian Standard IS:694/1990 / IS:1554 & IS : 7098 (Part-1)and we have at our disposal all necessary infrastructure including a full-fledge plant with sophisticated machinery. We have a very sophisticated lab equipped with latest instruments for testing ultimate strengths of its conductors, insulation, steel or sheath in accordance to IS specifications.

We have adopted ISO-9001/2000 Quality Management System and have been certified by DNV, the Netherlands & also our products are **CE** certified, (Certifying to European Standards).

Our R&D professionals keep themselves abreast of the latest technology development in the field of cable manufacturing all over the globe, to provide quality cables at its BEST.

Production capacity per annum :

- Power cables 6000 Kms. Assorted size
- Control cables 4800 Kms. Assorted size
- Instrumentation cables 2000 Kms. Assorted size
- Single core industrial cables 12,000 Kms. Assorted size
- Multicore industrial cables 2400 Kms. Assorted size

BRIMSON® 1.1 KV TWIN CORE ALUMINIUM CONDUCTOR, PVC INSULATED, INNER SHEATHED, ARMoured PVC SHEATHED CABLES CONFORMING TO IS:1554/IS : 7098 (PART-1)



Nominal Cross sectional area Sq. mm.	Nominal Thickness of Insulation mm.	Minimum thickness of Inner sheath mm.	ARMoured		Minimum thickness of Outer sheath mm.	Approx overall Diameter mm.	Approx Weight of cable kg/km.	Max. DC Conductor Resistance at 20° C Ohm/km.	CURRENT RATINGS		
			Galv. Round Steel Wire Nominal Dia. mm	Galv. Flat Steel Strip Nominal thickness mm					Direct in Ground Amps.	In Ducts Amps.	In Air Amps.
*2.5	0.9	0.30	1.4	---	1.24	13.4	380	12.1000	25	21	21
*4	1.0	0.30	1.4	---	1.24	14.7	450	7.4100	32	27	27
*6	1.0	0.30	1.4	---	1.24	15.8	500	4.6100	40	34	35
*10	1.0	0.30	1.4	---	1.24	17.9	600	3.0800	55	45	47
16	1.0	0.30	---	0.80	1.40	17.0	500	1.9100	70	58	59
25	1.2	0.30	---	0.80	1.40	20.1	650	1.2000	90	76	78
35	1.2	0.30	---	0.80	1.40	21.7	750	0.8680	110	92	99
50	1.4	0.30	---	0.80	1.40	24.5	950	0.6410	135	115	125
70	1.4	0.30	---	0.80	1.56	27.1	1150	0.4430	160	140	150
95	1.6	0.40	---	0.80	1.56	30.8	1460	0.3200	190	170	185
120	1.6	0.40	---	0.80	1.56	32.9	1670	0.2530	210	190	210
150	1.8	0.40	---	0.80	1.72	36.3	2010	0.2060	240	210	240
185	2.0	0.50	---	0.80	1.88	40.3	2450	0.1640	275	240	275
240	2.2	0.50	---	0.80	2.04	44.8	2950	0.1250	320	275	325
300	2.4	0.60	---	0.80	2.20	49.6	3560	0.1000	355	305	365
400	2.6	0.70	---	0.80	2.36	55.9	4500	0.0778	385	345	420
500	3.0	0.70	---	0.80	2.68	62.5	5600	0.0605	410	370	450

BRIMSON® 1.1 KV THREE CORE ALUMINIUM CONDUCTOR, PVC INSULATED, INNER SHEATHED, ARMoured PVC SHEATHED CABLES CONFORMING TO IS:1554/IS : 7098 (PART-1)



*2.5	0.9	0.30	1.4	---	1.24	14.0	425	12.1000	21	18	18
*4.0	1.0	0.30	1.4	---	1.24	15.6	500	7.4100	28	23	23
*6.0	1.0	0.30	1.4	---	1.24	17.3	575	4.6100	35	30	30
*10	1.0	0.30	1.4	---	1.40	19.0	700	3.0800	46	39	40
16	1.0	0.30	---	0.80	1.40	19.3	650	1.9100	60	50	51
25	1.2	0.30	---	0.80	1.40	22.0	800	1.2000	76	63	70
35	1.2	0.30	---	0.80	1.40	24.0	950	0.8680	92	77	86
50	1.4	0.30	---	0.80	1.56	27.6	1200	0.6410	110	95	105
70	1.4	0.40	---	0.80	1.56	30.8	1500	0.4430	135	115	130
95	1.6	0.40	---	0.80	1.56	34.6	1900	0.3200	165	140	155
120	1.6	0.40	---	0.80	1.72	37.5	2240	0.2530	185	155	180
150	1.8	0.50	---	0.80	1.88	41.9	2700	0.2060	210	175	205
185	2.0	0.50	---	0.80	1.88	45.6	3200	0.1640	235	200	240
240	2.2	0.60	---	0.80	2.20	51.6	3990	0.1250	275	235	280
300	2.4	0.60	---	0.80	2.36	56.7	4850	0.1000	305	260	315
400	2.6	0.70	---	0.80	2.52	64.1	6100	0.0778	335	290	375
500	3.0	0.70	---	0.80	2.84	71.5	7600	0.0605	350	310	410

BRIMSON® 1.1 KV FOUR CORE ALUMINIUM CONDUCTOR, PVC INSULATED, INNER SHEATHED, ARMoured PVC SHEATHED CABLES CONFORMING TO IS:1554/IS : 7098 (PART-1)



*2.5	0.9	0.30	1.4	---	1.24	16.5	480	12.1000	21	18	18
*4.0	1.0	0.30	1.4	---	1.24	18.0	550	7.4100	28	23	23
*6.0	1.0	0.30	1.4	---	1.24	19.5	650	4.6100	35	30	30
*10	1.0	0.30	---	0.80	1.40	20.0	660	3.0800	46	39	40
16	1.0	0.30	---	0.80	1.40	23.0	750	1.9100	60	50	51
25	1.2	0.30	---	0.80	1.40	23.7	950	1.2000	76	63	70
35	1.2	0.30	---	0.80	1.40	25.9	1165	0.8680	92	77	86
50	1.4	0.40	---	0.80	1.56	30.4	1540	0.6410	110	95	105
70	1.4	0.40	---	0.80	1.56	33.5	1800	0.4430	135	115	130
95	1.6	0.40	---	0.80	1.72	38.1	2400	0.3200	165	140	155
120	1.6	0.50	---	0.80	1.88	41.9	2800	0.2530	185	155	180
150	1.8	0.50	---	0.80	1.88	45.9	3350	0.2060	210	175	205
185	2.0	0.60	---	0.80	2.04	50.9	4000	0.1640	235	200	240
240	2.2	0.60	---	0.80	2.36	57.1	5050	0.1250	275	235	280
300	2.4	0.70	---	0.80	2.52	63.2	6200	0.1000	305	260	315
400	2.6	0.70	---	0.80	2.84	71.4	7850	0.0778	335	290	375
500	3.0	0.70	---	0.80	3.00	79.2	9600	0.0605	350	310	410

* If required, these sizes can be offered with stranded conductors also.

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



1.1 KV **3.5 CORE ALUMINIUM** CONDUCTOR, PVC INSULATED, INNER SHEATHED, ARMoured PVC SHEATHED CABLES CONFORMING TO IS:1554/IS : 7098 (PART-1)



NOMINAL CROSS SECTIONAL AREA		NOMINAL THICKNESS OF INSULATION		MINIMUM Thickness OF INNER SHEATH MM.	ARMoured Galv. Flat Steel Strip Nominal thickness mm	Minimum thickness of Outer sheath mm.	Approx. Overall Diameter mm.	Approx. Weight of Cable Kg./Km.	Max. DC Conductor Resistance at 20° C		CURRENT RATINGS		
MAIN SQ. MM.	NEUTRAL SQ. MM.	MAIN MM.	NEUTRAL MM.						Main Ohm/Km.	Neutral Amps.	Direct in Ground Amps.	In Ducts Amps.	In Air Amps.
25	16	1.2	1.0	0.3	0.8	1.40	23.1	900	1.200	1.910	76	63	70
35	16	1.2	1.0	0.3	0.8	1.40	24.9	1030	0.868	1.910	92	77	86
50	25	1.4	1.2	0.3	0.8	1.56	28.8	1350	0.641	1.200	100	95	105
70	35	1.4	1.2	0.4	0.8	1.56	32.2	1725	0.443	0.868	135	115	130
95	50	1.6	1.4	0.4	0.8	1.56	36.3	2130	0.320	0.641	165	140	155
120	70	1.6	1.4	0.5	0.8	1.72	40.1	2580	0.253	0.443	185	155	180
150	70	1.8	1.4	0.5	0.8	1.88	43.8	3050	0.206	0.443	210	175	205
185	95	2.0	1.6	0.5	0.8	2.04	48.4	3650	0.164	0.320	235	200	240
240	120	2.2	1.6	0.6	0.8	2.20	54.3	4580	0.125	0.253	275	235	280
300	150	2.4	1.8	0.6	0.8	2.36	59.7	5500	0.100	0.206	305	260	315
400	185	2.6	2.0	0.7	0.8	2.68	67.6	7000	0.0778	0.164	335	290	375
500	240	3.0	2.2	0.7	0.8	2.84	75.2	8600	0.0605	0.125	350	310	410



1.1 Kv annealed high conductivity Solid **COPPER** Conductor, **1.5 Sq. Mm.** PVC Insulated, Inner sheathed, Armoured/Unarmoured PVC Sheathed Cables conforming to IS : 1554/ IS : 7098 (Part-1)



Number of Cores No.	Nominal Thickness of Insulation mm.	Minimum Thickness of Inner Sheath mm.	A R M O U R		Nominal Sheath Thickness for Un-armoured	Minimum Sheath Thickness for Armoured	APPROX. OVERALL DIAMETER		APPROX. WEIGHT OF CABLE		MAX. DC Conductor Resistance AT 20° C Ohm/Km.	CURRENT RATINGS		
			Galv. Round Steel wire Nominal Diameter mm.	Galv. Flat Steel strip Nominal thickness mm.			UNARMoured	ARMoured	UNARMoured	ARMoured		DIRECT IN GROUND AMPS.	IN DUCTS AMPS.	IN AIR AMPS.
2	0.8	0.3	1.4	--	1.8	1.24	10.20	13.38	130	350	12.1	23	20	20
3	0.8	0.3	1.4	--	1.8	1.24	10.70	13.88	160	400	12.1	21	17	17
4	0.8	0.3	1.4	--	1.8	1.24	11.50	14.68	190	450	12.1	21	17	17
5	0.8	0.3	1.4	--	1.8	1.24	12.45	15.55	225	500	12.1	21	17	17
6	0.8	0.3	1.4	--	1.8	1.24	13.20	16.48	250	550	12.1	15	13	13
7	0.8	0.3	1.4	--	1.8	1.24	13.20	16.48	265	565	12.1	14	13	13
10	0.8	0.3	1.4	--	1.8	1.40	16.20	18.70	350	750	12.1	13	11	11
12	0.8	0.3	--	0.8	1.8	1.24	17.80	19.20	400	650	12.1	12	10	10
14	0.8	0.3	--	0.8	1.8	1.40	17.90	19.97	450	760	12.1	11	10	10
16	0.8	0.3	--	0.8	1.8	1.40	19.25	20.87	500	800	12.1	11	9	9
19	0.8	0.3	--	0.8	2.0	1.40	20.00	21.80	600	850	12.1	10	9	9
24	0.8	0.3	--	0.8	2.0	1.40	23.00	24.90	725	1050	12.1	9	8	8
30	0.8	0.3	--	0.8	2.0	1.40	24.50	26.17	860	1200	12.1	9	7	7
37	0.8	0.3	--	0.8	2.0	1.40	26.00	28.00	1050	1400	12.1	8	7	7



1.1 Kv annealed high conductivity Solid **COPPER** Conductor, **2.5 SQ. MM.** PVC Insulated, Inner sheathed, Armoured/Unarmoured PVC Sheathed Cables conforming to IS : 1554/ IS : 7098 (Part-1)



2	0.9	0.3	1.4	--	1.8	1.24	10.68	14.58	160	425	7.41	32	27	27
3	0.9	0.3	1.4	--	1.8	1.24	11.40	15.17	225	475	7.41	27	24	24
4	0.9	0.3	1.4	--	1.8	1.24	11.50	16.13	250	530	7.41	27	24	24
5	0.9	0.3	1.4	--	1.8	1.24	14.10	17.49	300	600	7.41	27	24	24
6	0.9	0.3	1.4	--	1.8	1.24	15.40	18.28	340	675	7.41	20	18	18
7	0.9	0.3	1.4	--	1.8	1.24	15.40	18.28	375	700	7.41	20	17	17
10	0.9	0.3	--	0.8	2.0	1.40	19.00	21.10	500	780	7.41	18	15	15
12	0.9	0.3	--	0.8	2.0	1.40	20.00	21.69	600	850	7.41	17	14	14
14	0.9	0.3	--	0.8	2.0	1.40	20.90	22.62	650	950	7.41	16	13	13
16	0.9	0.3	--	0.8	2.0	1.40	22.10	23.69	750	1050	7.41	15	13	13
19	0.9	0.3	--	0.8	2.0	1.40	23.00	24.80	850	1150	7.41	14	12	12
24	0.9	0.3	--	0.8	2.0	1.40	26.60	28.82	1050	1400	7.41	13	11	11
30	0.9	0.3	--	0.8	2.0	1.56	28.40	30.34	1250	1700	7.41	12	10	10
37	0.9	0.4	--	0.8	2.0	1.56	31.00	32.72	1550	2000	7.41	11	10	10

* If required, these sizes can be offered with stranded conductors also.

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

BRIMSON®**CONDUCTOR RESISTANCE OF PLAIN COPPER CONDUCTORS
USED FOR HEAVY DUTY CABLES AS PER IS:8130-1984****CE**

SIZE IN SQ. MM. * SOLID CONDUCTOR	CONDUCTOR CONSTRUCTION	Max. Cond. Resistance in Ohm/Km at 20°C	SIZE IN SQ. MM.	CONDUCTOR CONSTRUCTION	Max. Cond. Resistance in Ohm/Km at 20°C
		SINGLE CORE & MULTICORE			SINGLE CORE & MULTICORE
1.5*	1/1.38	12.100	120	37/2.03	0.153
2.5*	1/1.78	7.410	150	37/2.24	0.124
4.0*	1/2.24	4.610	185	37/2.50	0.0991
6.0*	1/2.76	3.080	240	61/2.24	0.0754
10	7/1.35	1.830	300	61/2.50	0.0601
16	7/1.70	1.150	400	61/2.85	0.0470
25	7/2.14	0.727	500	61/3.20	0.0366
35	7/2.50	0.524	630	91/3.00	0.0283
50	7/3.00	0.387	---	---	---
70	19/2.14	0.268	800	127/2.83	0.0221
95	19/2.50	0.193	1000	127/3.16	0.0176

BRIMSON®**CURRENT RATING OF BRIMSON COPPER ARMOURED/UNARMOURED
CABLES 650/1100 V GRADE IN AIR****CE**

AREA SQ. MM.	TWIN CORE AMP.	3, 3.5, 4 CORE AMP.	AREA SQ. MM.	TWIN CORE AMP.	3, 3.5, 4 CORE AMP.
1.5	20	17	70	195	165
2.5	27	24	95	230	200
4	35	30	120	265	235
6	45	39	150	305	265
10	60	52	185	350	305
16	78	66	240	410	355
25	105	90	300	465	400
35	125	110	400	530	455
50	155	135	---	---	---

BRIMSON®**SUBMERSIBLE CABLES****CE****PVC INSULATED FLAT SUBMERSIBLE CABLES**

BRIMSON Flat Cable are manufactured for critical space requirement, protection against indefinite immersion in water under specified conditions, protection against rain water and protection against ingress of small solid foreign bodies.

BRIMSON'S Flat Cables are produced from best quality electrolytic copper, annealed & bunched on automatic manufacturing machines. The conductors are insulated with a special grade of PVC and outer sheath consists of a highly abrasion resistant PVC compound. These cables are processed on sophisticated twin extrusion line which meets and withstands the demanding needs of submersible pump motor power supply.

3 CORE FLAT CABLES

(Generally as per IS : 694)

CONDUCTOR		INSULATION		SHEATH		CONDUCTOR RESISTANCE @ 20°C (MAX) OHMS/KM.	CURRENT CARRYING CAPACITY @ 40°C AMPS.	
AREA (NOM.) SQ. MM.	NO. & SIZE OF WIRES IN MM.	THICKNESS (NOM.) MM.	CORE DIA. (NOM.) MM.	OVERALL DIMENSIONS				
				THICKNESS (NOM.) MM.	SIZE (W X T) MM.			
1.5	22/.03	----	0.8	3.20	1.20	11.9 x 5.5	12.10	14
2.5	36/.03	----	0.9	3.85	1.20	13.85 x 6.15	7.41	18
4.0	56/.03	----	1.0	4.50	1.20	15.8 x 6.8	4.95	26
6.0	84/.03	----	1.0	5.00	1.20	17.3 x 7.3	3.30	31
10.0	140/.03	----	1.0	5.90	1.40	20.5 x 8.7	1.91	42
16.0	226/.03	126/.04	1.0	6.95	1.40	23.65 x 9.75	1.21	57
25.0	354/.03	196/0.4	1.2	8.65	2.00	30 x 12.65	0.780	72
35.0	495/0.3	276/.04	1.2	9.90	2.00	33.7 x 13.9	0.554	90
50.0	703/.03	396/.04	1.4	12.10	2.20	40.7 x 16.5	0.386	115
70.0	360/.05	360/.05	1.4	13.70	2.20	45.5 x 18.1	0.272	143
95.0	475/.05	485/.04	1.6	15.80	2.40	52.2 x 20.6	0.206	165

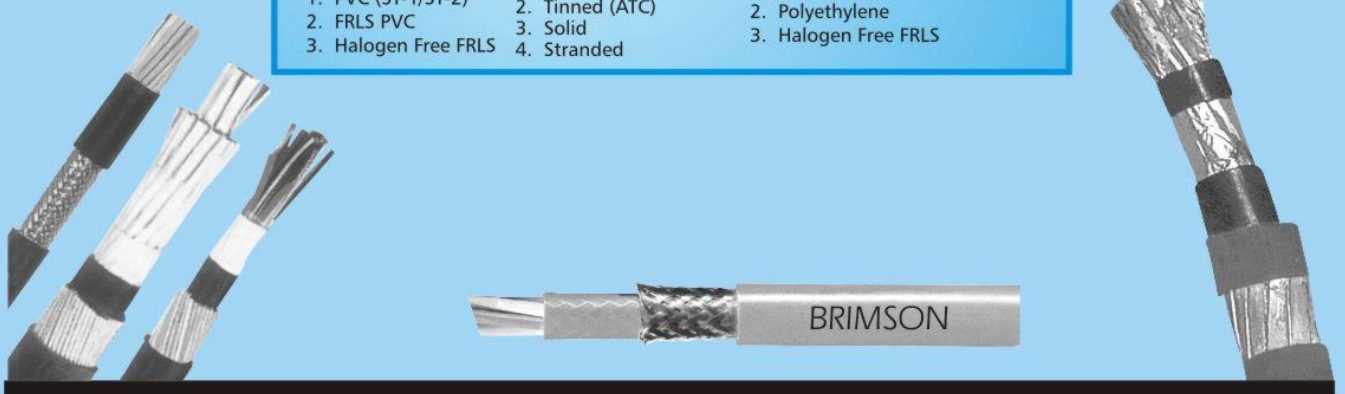
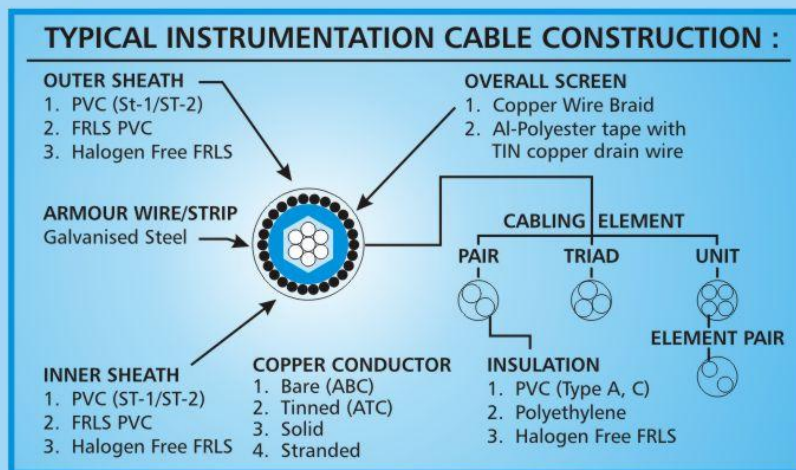
NOTE : Insulation thickness, Sheath thickness and overall dimension given in this table are nominal values. The number of wires is approximate and strand diameter is nominal, they shall be such as to satisfy the requirements of conductor resistance as per IS : 8130 / 1984. **4 CORE FLAT CABLES UPTO 25 SQ. MM.** are available against specified order.

BRIMSON Instrumentation Cables ensure Smooth Communication of low level signals from electronic transmitters to the control room. These cables effectively cut down any distortion or cross talk. The superior Aluminium Mylar shielding (optional) ensures almost complete elimination of any noise. These cables are widely used in core industries like Petrochemicals, Steel, Aviation, Fire Alarm Systems, Refineries, pharmaceuticals, Thermal Power Projects, Chemical Plants, Transmission Systems, Computer Controlled Electrical & Electronic Equipments Etc.

Signal cables are imperative when you want to keep the signal to noise ratio and the capacitance to the minimum in presence of stray magnetic fields. They are used in sensitive areas where accurate data inputs are necessary viz. Electronic Industries and Nuclear Power Plants.

RTD (Remote Temperature Detection) cables carry temperature readings from remote or inaccessible areas to the control room.

The growing sophistication of the electronic industry continues to create a need for specially designed cables for use with computer-controlled electrical and electronic equipment. To satisfy requirements for impedance matching, lower bit error rates, lower crosstalk, longer transmission distances and high signal purity, we are manufacturing an expanding spectrum of instrumentation, data and control cables in full range of sizes, insulations of different types, shields types for special installations. We can also armour these cables for mechanical protection.



APPLICATION	TYPE & SIZE	OPTIONS
INSTRUMENTATION SIGNAL CABLES FOR PROCESS CONTROL AND INSTRUMENTS	PVC Sheathed 225/650/1100 V grade cables as per BS : 5308 DIN / VDE 0815 & 816 IS : 1554 / IEC 189 / ENI 0181.00 and Customer Specification Size : 0.2 to 300 Sq. mm.	<p>CONDUCTOR - Stranded/Solid, Bare/Tinned/Silver.</p> <p>INSULATION - PVC/HR PVC/P. E. / Zero Halogen/Silicone</p> <p>SHIELDING - Individual elements by Aluminium Polyester Screen with ATC drain wire / overall or alternately copper wire Braid Shielding as specified.</p> <p>ELEMENTS - Pair / Triples / Quads, Colour code/Number printed</p> <p>INNER SHEATH - PVC / HR / FR PVC / Zero Halogen</p> <p>ARMOURED - G. S. Round Wire/Flat Strip</p> <p>OUTER SHEATH - PVC / FR PVC / FRLS / Zero Halogen</p>

BRIMSON CABLES PVT. LTD. manufactures the widest range of shielded cables designed for control, power, data & instrument circuits. When a particular installation is prone to interference from either internal or external sourced, some form of shielding in the cable is necessary. Even if one installs the most accurate and reliable instruments to monitor and control the system will be as strong or as weak as the cable interconnecting them.

In shielded cables, ideally a coverage of around 85% is desired when providing braid shielding but it is often seen that the coverage is hardly in the range of 50% to 60% which leaves the cable cores exposed to all kinds of interferences. Moreover only an aluminium foil or braid shield on its own may not be effective enough to eliminate or reduce the interference problems, hence the need for Dual Screened Cables - wherein both an aluminium foil having 100% coverage (with minimum 25% overlap) in conjunction with shield is provided. Dual Screened is far more effective in the most demanding environments than ordinary screened cables.

FEATURES :

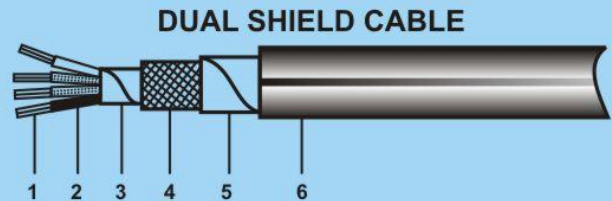
- Insulated with high grade PVC.
- Outstanding shield effectiveness.
- 100% Spark, HV, IR, CR tested.

ADVANTAGES :

- Easy to handle and terminate.
- Outstanding electrical properties.
- Flame retardant, self extinguishing PVC.

CONSTRUCTION :

1. Flexible copper conductor
2. PVC insulation / H.R.
3. Aluminium-mylar tape shield
4. Braid shield
5. Polyester tape
6. PVC sheath / F.R. / F.R.L.S.



THERMOCOUPLE EXTENSION / COMPENSATIVE CABLE

These cables can also be termed as instrumentation cables, since they are used for process temperature measurement. The construction is similar to paired instrumentation cable but the conductor material is different. Thermocouples are used in processes to sense temperature and is connected to the pyrometers for indication and control. The thermocouple and pyrometers are electrically connected by the thermocouple extension/compensating cables. The conductors used for these cables are required to have similar thermoelectric (emf) properties as that of the thermocouple used for sensing the temperature. The cables are manufactured as per IS : 8784, ANSI- MC 96.1, BS : 1843 ENI, DIN : 43714, NFC : 43-323, JISC : 1610-1981 and customers specification.

RANGE OF THERMOCOUPLE EXTENSION/COMPENSATING CABLES :

EXTENSION CABLES	CONDUCTOR MATERIAL	
	POSITIVE	NEGATIVE
KX (NiCr/Nia)	Nickel - Chromel	Nickel - Alumel
JX (Fe/CuNi)	Iron Magnetic	Constantan (Copper - Nickel)
EX (NiCr/CuNi)	Nickel - Chromel	Constantan (Copper - Nickel)
TX (Cu/CuNi)	Copper	Constantan (Copper - Nickel)
COMPENSATING CABLES		
KX (A) / VX (NiCr/NiAl)	Copper	Constantan
SX/RX (PtRh-Pt)	Copper	Constantan

COLOUR CODES AS PER VARIOUS STANDARD SPECIFICATIONS.

STANDARDS REFERRED									
ANSI-MC - 96.1 • ENI - 163.00				IS : 8784			BS : 1843		
	+ve	-ve	overall	+ve	-ve	overall	+ve	-ve	overall
EXTENSION CABLES									
KX	Yellow	Red	Yellow	Red	Green	Green	Brown	Blue	Red
JX	White	Red	Black	Red	Blue	Blue	Yellow	Blue	Black
TX	Blue	Red	Blue	Red	Black	Black	White	Blue	Blue
EX	Purple	Red	Purple	Red	Violet	Violet	Brown	Blue	Brown
COMPENSATING CABLES									
KX(A)VX	----	-----	----	Red	Green	Green	White	Blue	Red
SX/RX	-----	Black	Red	Red	White	White	White	Blue	Green

The Above Data Is Indicative And May Be Revised Without Prior Information • Brimson Will Not Be Liable For Any Damages Arising Out Of Incorrect Application

The word POLYMERS comes from the Greek meaning "MANY + PARTS" and as chemical compound. It is combination of carbon, hydrogen, oxygen, and / or Silicon.

Due to its Physical, Chemical and electrical Characteristic polymers today has turned out to be the only suitable material for application in critical and problem areas. Some polymers conduct electricity very well.

BRIMSON Cables Manufactures a wide range of Elastomeric Cables, Elevator (Lift) Cables as per IS : 9968 (Pt-1) specification and are approved / tested by NSIC, RTC, ISI & NTH.

For quality systems **BRIMSON CABLES PVT. LTD.** has acquired ISO 9001 certification.

Elastomer Cables are used in Steel, Chemicals, Cement Plants, Sugar Factories, Aeronautic Ship, Coal Fields & Oil Refineries, Boilers, Electric Furnase, Driers, Bakeries, High Frequency Generators, Cranes, Machineries, Alloys, Machine Tools, Construction Equipments, Textile Machinery, Printing Press etc.

For cables which can withstand the search aging condition during operations and also to ensure current rating at constant ambient temperature.

Specification : Loco • Ship • Aeronautical Cables as per IEC 92-3, DGS - 211, 212, NVS, DNV, DLW, C/W, RDSO, LLOYDS International Specification.

Types of Rubber Cables : VIR / TRS, E. P. R. / CSP, E. P. R. / PCP, Neoprene, H.O.F.R., Silicone, Butyle Rubber Cables.

For Selection of right type of Elastomeric Cables, the characteristics are mentioned below :

TYPE OF INSULATION	Maximum Rated Operating Temperature of Conductor in Deg. C	Minimum Ambient Temperature in Deg. C	Maximum Conductor Temperature During Short Circuit in Deg. C
General Purpose	60	-55	200
Butyl	85	-50	220
Ethylene Propylene Rubber (EPR)	90	-50	250
Polychloroprene (PCP)	90	-50	250
Nitrile Rubber PVC Blend (NBR-PVC)	90	-30	250
Chlorosulphonated Polyethylene (CP)	90	-35	250
Silicone Rubber	150	-55	350

The short circuit temperature mentioned above are based on Intrinsic properties of the insulating material, it is essential that the accessories which are used in the above system with mechanical and soldered connections are suitable for temperature adopted for cables.

FLEXIBLE TRAILING CABLES

S. NO.	TYPE	IDENTIFICATION	VOLTAGE GRADE	APPLICATION
1.	Flexible Trailing Cables	FT	1.1 KV Portable m/c	Coal cutlers and similar
2.	Flexible Trailing Cables	FTD	1.1 KV	Hand held m/c like drill etc.
3.	Pliable Armoured Flexible Cables	P3	1.1 KV	Conveyors, Loaders and similar transportable m/c
4.	Pliable Armoured Flexible Cables	PC	1.1 KV	Remote Control Circuit
5.	Pliable Armoured Flexible Cables	PL	1.1 KV	For Coal Face Light
1.	FT			
a)	FT3-5 Core	5 Core around a cradle separator		
b)	FT4-5 Core	3 Power cores with protective screen one unscreened plot clad around bare central conductor.		
c)	F16-5 Core	3 Power Core with protective screen with plot core laid around an elastomeric centre. Cross section range : 16 to 95 sq. mm.		
2.	FTD			
a)	FTD-3 Core	3 Power Core + pilot core + each core all 6 sq. mm. laid around cradle separator.		
3.	P			
a)	P3-5 Core	3 Power Core + pilot core + each core around cradle separator cross section 6 to 35 sq. mm.		
4.	PC			
a)	PC1-2 Core cross section 2.5 sq. mm. - 4 sq. mm.			
b)	PC2-3 Core cross section 2.5 sq. mm. - 4 sq. mm.			
5.	PL			
a)	PL1-4 Core cross section 4 sq. mm.			
b)	PL2-5 Core cross section 4 sq. mm.			

**FAN FLEXIBLE ANNEALED TINNED COPPER CONDUCTOR
ELASTOMER INSULATED AND OVERALL COTTON/SILK BRAIDED**

Nominal Cross Sectional area of conductor (in mm.)	Number & Nominal Dia. of Wires* (in mm.)	Thickness of Insulation (Nom) (in mm.)	Max Overall Diameter (in mm.)	
			2 CORE	3 CORE
0.5	16/0.20	1.0	8.3	9.0
0.75	24/0.20	1.0	8.7	9.5
1.0	32/0.20	1.0	9.1	9.9
1.5	48/0.20	1.0	9.7	10.5
2.5	80/0.20	1.0	10.5	11.3
4.0	128/0.20	1.0	11.7	12.6

CONSTRUCTION DETAILS :

CONDUCTOR	:	Tinned annealed copper conductor flexible as per IS : 8130.
INSULATION	:	General purpose natural IE, type.
LAYING	:	Together twisting in right hand lay.
BRAIDING	:	Cotton / Staple / Silk Yarn
COVERING	:	General purpose compound / SE-1, SE-2.
COLOUR	:	Black or as per specification.

MULTICORE FLEXIBLE COPPER CONDUCTOR

General purpose / HOFR / EPR / CSP / Silicon Insulated & sheathed cable.

Nominal Cross Sectional area of conductor in mm.	Nominal Thickness of Insulation (per Core) in mm.	NOMINAL SHEATH THICKNESS			
		SINGLE CORE in mm.	TWO CORE in mm.	THREE CORE in mm.	FOUR CORE in mm.
0.5	1.00	1.00	1.00	1.00	1.00
0.75	1.00	1.00	1.00	1.00	1.10
1.00	1.00	1.00	1.00	1.00	1.10
1.50	1.00	1.00	1.00	1.10	1.10
2.50	1.00	1.00	1.10	1.10	1.10
4.00	1.00	1.00	1.20	1.20	1.20
6.00	1.00	1.60	2.00	2.10	2.50
10.00	1.20	1.80	2.40	2.50	2.70
16.00	1.20	1.90	2.50	2.70	2.90
25.00	1.40	2.00	3.20	3.30	3.40
35.00	1.40	2.20	3.30	3.40	3.50
50.00	1.60	2.40	3.50	3.60	3.70
70.00	1.60	2.60	3.60	3.70	3.90
95.00	1.80	2.80	3.80	4.00	4.10
120.00	1.80	3.00	4.00	4.10	4.30
150.00	2.00	3.20	4.20	4.30	4.50
185.00	2.20	3.40	4.30	4.50	4.80
240.00	2.40	3.50	4.60	4.80	5.10
300.00	2.60	3.50	4.90	5.10	5.40

Note : *The number & diameter of conductor strands are for reference only.

For every type of welding jobs, Welding Cable is essential part of Welding equipments.

It carries current from Power source to the electrode Holder and via the arc of the workpiece and thus helps to make the process complete.

The Conductor are bunched and standard covered with tough Rubber sheath by keeping Polyester tape between conductor and insulation which works as a separator.

BRIMSON Welding Cable is Suitable for use where combination of ambient Temperature & temperature rise due to load results a conductor Temperature not exceeding 60°C for general purpose & HOFR compound cables.

(Heat resisting, Oil resisting & Flame Retardant)

COPPER CONDUCTOR				CURRENT RATING OF A MAXIMUM DUTY CYCLE OF				
Conductor in MM ² .	Num. / Dia of Wires	Radial Thickness of Covering in mm.	Overall Diameter in mm. (App)	GENERAL PURPOSE RUBBER			HOFR Compound Covers	
				85%	60%	20%	85%	30%
16	510/0.2	2.00	10.0	87	103	179	127	223
25	796/0.2	2.00	11.5	112	133	230	176	318
35	1114/0.2	2.00	12.9	140	166	288	213	371
50	707/0.3	2.20	15.0	181	215	373	269	469
70	999/0.3	2.40	17.4	222	264	458	335	586
95	1344/0.3	2.60	19.8	272	224	561	406	709

Working Voltage : 100 V. • Test Voltage : 1000 V. • Min. Bending Radius : 6 x Cable Diameter.

ALUMINIUM CONDUCTOR				CURRENT RATING OF A MAXIMUM DUTY CYCLE OF				
Conductor in MM ²	Num. / Dia of Wires	Radial Thickness of Covering in mm.	Overall Diameter in mm. (App)	GENERAL PURPOSE RUBBER			HOFR Compound Covers	
				85%	60%	20%	85%	30%
25	355/0.3	2.00	11.5	87	103	179	132	223
35	495/0.3	2.00	12.9	112	133	230	165	278
50	707/0.3	2.20	15.0	140	166	288	213	358
70	990/0.3	2.40	17.4	174	206	358	259	436
95	1344/0.3	2.60	19.8	210	250	434	316	531
120	1697/0.3	2.80	22.6	247	294	510	368	619

*NOTE : The Number & Diameter of conductor and Amps. stands for reference only.

TELEPHONE & SWITCHBOARD CABLES (ARMOURED & UN-ARMOURED)

BRIMSON UN-ARMOURED & ARMOURED high conductivity solid annealed tin copper .51 mm Telephone & Switchboard cables with high density PVC Insulation, Paired, Polyester and Sheathed, PVC Compound, Grey Outer Sheath generally conforming to 'ITD' S/SW 113 C, Armouring IS-1554 (Part-1). It is mainly used in Indoor Telephone wiring, Switchboard wiring & Telephone Exchange & Telecommunication Equipments.

COLOUR SCHEME AS PER ITI D-3003

No. of Pairs	COLOUR SCHEME	No. of Pairs	COLOUR SCHEME	No. of Pairs	COLOUR SCHEME	No. of Pairs	COLOUR SCHEME
1	White - Blue	7	Red - Orange	13	Black - Green	19	Blue - Grey
2	White - Orange	8	Red - Green	14	Black - Brown	20	Orange - Green
3	White - Green	9	Red - Brown	15	Black - Grey	21	Orange - Brown
4	White - Brown	10	Red - Grey	16	Blue - Orange	22	Orange - Grey
5	White - Grey	11	Black - Blue	17	Blue - Green	23	Green - Brown
6	Red - Blue	12	Black - Orange	18	Blue - Brown	24	Green - Grey
						25	Brown - Grey

Note : The same sequence is repeated again 1st layer of 25 Pairs and 2nd layer of the same sequence of 25 Pairs.

The above data is indicative and may be revised without prior information BRIMSON will not be liable for any damages arising out of incorrect application.

WE ALSO MANUFACTURE : Co-Axial Cables & Lan (Local Area Network) Cat-5E and Cat-6 Cables.

We at **BRIMSON CABLES** through our in-house R & D, developed an Elevator Cable according to British Standard to meet the long awaited requirement of Indian Elevator Companies, who are till now importing such cables to fulfill their needs.

We are already supplying Elevator Cables to ECE Industries Ltd. (Elevator Division) Ghaziabad since last four years and according to them our product is a big success for them as it has reduced their cost and time. It is an advantage to have an Indian product so that urgent requirement can be fulfilled on time and the product could be modified according to the customer's need.

CONSTRUCTION OF CABLE

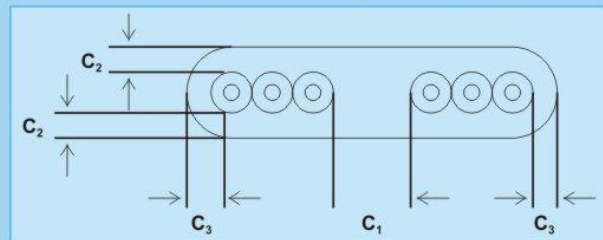
- The Cable shall comprise 3 upto and including 24 flexible conductor with nominal cross-section areas from 0.75mm² to 2.5mm².
- The Annealed bare copper conductor complying with the requirement of BS : 6360. The conductor may tinned as required by customer.
- The Insulation consisting of PVC type TI-2 PVC Insulation, complying with the requirement of BS : 6746.
- The Sheath consists of PVC type TM2 PVC sheath complying with the requirement of BS : 6746.
- The sheath extruded in a single layer on the cores laid parallel.
- The Composition of the cable according to the nominal cross section area of conductors are as follows.

NOMINAL CROSS-SECTIONAL AREA SQ. MM.	NUMBERS OF CORES
0.75	6,9,12,16,20 & 24
1.00	3,4,5,6,9,12,16,20 & 24
1.50	3,4,5,6,9 & 12,
2.50	3,4,5,6,9 & 12,

The cores are laid parallel in grouped, closely side by side and covered with sheath comply with the following for cables having the preferred numbers of cores.

NUMBERS OF CORES	6	9	12	16	20	24
Number of Groups X Numbers of Cores in each Group	2 x 3	3 x 3	3 x 4	4 x 4	5 x 4	6 x 4

A tearing thread be added inside each core group. It shall be possible to separate the cores without damage to the insulation. Stain bearing thread of textile material may be included in each core group, replacing one or more cores.



TEST DESCRIPTION

CONSTRUCTIONAL AND DIMENSIONAL TEST.

Check on construction. • Measurement of insulation thickness. • Measurement of sheath thickness.

MECHANICAL PROPERTIES ON INSULATION

Tensile strength before ageing. • Elongation at break before ageing. • Tensile strength after ageing in air. • Elongation at break after ageing in air. • Loss of mass test. • Hot pressure test. • Cold bend test.

MECHANICAL PROPERTIES OF SHEATH

Tensile strength before ageing. • Elongation at break before ageing. • Tensile strength after ageing in air. • Elongation at break after ageing in air. • Loss of mass test. • Cold elongation test. • Cold bend test.

MECHANICAL STRENGTH OF COMPLETE CABLE

Static flexibility test. • Tensile strength of strain-bearing member.

CONDUCTOR		RADIAL THICKNESS OF INSULATION	THICKNESS OF SHEATH AND CLEARANCES			MINIMUM INSULATION RESISTANCE AT 70°C
Nominal Cross- Sectional Area	Maximum Diameter of Wire		C1	C2	C3	
mm ²	mm	mm	mm	mm	mm	MΩkm
0.75	0.21	0.6	1.0	0.9	1.5	0.011
1.00	0.21	0.6	1.0	0.9	1.5	0.010
1.50	0.26	0.7	1.0	1.0	1.5	0.010
2.50	0.26	0.8	1.5	1.0	1.8	0.009

TABLE A

BRIMSON®

PLAIN COPPER CONDUCTOR, PVC INSULATED UNSHEATHED 650/1100V,
SINGLE CORE INDUSTRIAL WIRES & CABLES FOR PANEL BOARD WIRING
 AS PER IS:694/1990 WITH ISI MARK (UPTO 50 SQ. MM)



IS : 694

Area in Sq. mm	Conductor Const. in General	Cond. Dia. in mm	Max. DC Resistance Ohm/Km at 20°C	Nominal Insulation Thickness in mm	Cable Dia (Approx.)	Current Rating in Amps.	AREA IN SQ. MM	Conductor Const. in General	Cond. Dia. in mm	Max. DC Resistance Ohm/Km at 20°C	Nominal Insulation Thickness in mm	Cable Dia (Approx.)	Current Rating in Amps.
0.50	16/0.20	0.94	39.00	0.60	2.20	4	70	354/0.50	12.30	0.272	1.6	15.5	170
0.75	24/0.20	1.20	26.00	0.60	2.50	7	95	484/0.50	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	48/0.20	1.64	13.30	0.60	2.90	14	150	750/0.50	18.30	0.129	2.0	22.5	295
2.50	80/0.20	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	1210/0.50	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	80/0.40	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							
25.00	196/0.40	7.60	0.780	1.20	10.00	75							
35.00	276/0.40	8.70	0.554	1.20	11.3	95							
50.00	396/0.40	10.60	0.386	1.40	13.5	125							

Note : Cables above 50 sq. mm are not covered by IS:694 but are as per IS-2465.

TABLE B

BRIMSON®

MULTICORE ROUND INDUSTRIAL CABLE (6 CORES TO 30 CORES)
 GENERALLY CONFIRMING TO IS:694/1990



IS : 694

Area SQ. MM.		0.50	0.75	1.00	1.50	2.50	4.00
No. of Strands / Nominal Dia.		16/0.2	24/0.2	32/0.2	48/0.20	80/0.20	56/0.3
Conductor Dia in mm		0.94	1.20	1.34	1.64	2.08	2.61
Average Insulation thickness 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

THE ABOVE DATA IS INDICATIVE AND MAY BE REVISED WITHOUT PRIOR INFORMATION.
 BRIMSON CABLES PVT. LTD. WILL NOT BE LIABLE FOR ANY DAMAGES ARISING OUT OF INCORRECT APPLICATION.

TABLE C

BRIMSON[®]BARE COPPER CONDUCTOR, PVC INSULATED AND SHEATHED 650/1100V,
MULTICORE INDUSTRIAL CABLES AS PER IS:694/1990 WITH ISI MARK

IS : 694



NOMINAL AREA IN SQ. MM	NO. OF STRANDS / NOMINAL DIA.	MAX. DC RESISTANCE OHM/KM AT 20°C	NOMINAL INSULATION THICKNESS IN MM	CORE DIA MM	NOMINAL SHEATH THICKNESS IN MM			OVERALL DIAMETER IN MM (APPROX.)			CURRENT RATING
					2 CORE	3 CORE	4 CORE	2 CORE	3 CORE	4 CORE	
0.50	16/0.20	39.00	0.60	2.20	0.90	0.90	0.90	6.20	6.60	7.20	4
0.75	24/0.20	26.00	0.60	2.50	0.90	0.90	0.90	6.80	7.20	7.90	7
1.00	32/0.20	19.50	0.60	2.60	0.90	0.90	0.90	7.00	7.50	8.10	11
1.50	48/0.20	13.30	0.60	2.90	0.90	0.90	1.00	7.60	8.10	9.00	14
2.50	80/0.20	7.98	0.70	3.50	1.00	1.00	1.00	9.00	9.60	10.50	19
4.00	56/0.30	4.95	0.80	4.30	1.00	1.00	1.00	10.60	11.30	12.40	26

TABLE D

BRIMSON[®]PLAIN COPPER CONDUCTOR, PVC INSULATED AND SHEATHED 650/1100V, **MULTICORE** INDUSTRIAL CABLES

IS : 694



NOMINAL AREA IN SQ. MM	NO. OF STRANDS / NOMINAL DIA.	MAX. DC RESISTANCE OHM/KM AT 20°C	NOMINAL INSULATION THICKNESS IN MM	CORE DIA MM	NOMINAL SHEATH THICKNESS IN MM			OVERALL DIAMETER IN MM (APPROX.)			CURRENT RATING
					2 CORE	3 CORE	4 CORE	2 CORE	3 CORE	4 CORE	
6	84/0.3	3.30	0.80	5.10	1.15	1.15	1.40	12.60	13.40	15.20	33
10	80/0.4	1.91	1.00	6.60	1.40	1.40	1.40	16.00	17.00	18.80	45
16	126/0.4	1.21	1.00	8.00	1.40	1.40	1.40	18.80	20.10	22.20	60
25	196/0.4	0.780	1.20	10.00	2.00	2.00	2.00	24.00	25.60	28.20	75
35	276/0.4	0.554	1.20	11.10	2.00	2.00	2.00	26.30	28.00	31.00	95
50	396/0.4	0.386	1.40	13.40	2.00	2.00	2.00	30.90	33.00	36.50	125
70	354/0.5	0.272	1.40	15.10	2.00	2.20	2.40	34.20	37.00	41.00	170
95	484/0.5	0.206	1.60	17.90	2.20	2.40	2.40	40.20	43.50	47.80	210

Please Note : As per the International practice which is also adopted by Bureau of Indian Standards, the diameter of the conductor shown above is nominal. The Size of the conductor is determined by its resistance. The construction of the conductor is as per market convention and should be treated as a guideline only. It may vary within the limits of IS 8130 with its related classes & Tables.

**WE ALSO DEAL IN :
TEFLON & FIBER GLASS CABLES**

BRIMSON CABLES PVT. LTD. is manufacturing Copper / Aluminium conductor cables with PVC or XLPE insulation laid up, inner wrapped / Extruded. The Armouring is of galvanised mild steel wires/strips. The final outer sheath

PE is made up of long molecular chains, by cross-linking of these chains a network of strong bonds is created and PE is converted into cross-linked polyethylene, (XLPE).

XLPE Cables use XLPE Compound with Anti Oxidant stabilizers and tracks of aromatic polynuclear hydrocarbon, thus improving Electrical treeing characteristics and mechanical strength.

COMPARISONS OF PROPERTIES DUE TO WHICH XLPE IS SUPERIOR :

CHARACTERISTICS	PVC	XLPE
Tensile Strength(N / mm ²)	12.5	15
Flexibility at 10°C	Poor	Good
Volume Resistivity (ohms /min.) (20°C)	10 ¹³	10 ¹⁷
Permittivity (50 Hz, 20°C)	4-6	2.3
Max. Conductor Temperature	70°C	90°C
Thermal Resistivity of Dielectric	650°C cm/watt	350°C cm/watt
Max Short Circuit Temp.	160°C	250°C
Dielectric Loss Factor (50 Hz, 20°C)	0.05-0.07	0.0004
Resistance to moisture/Fungus Oil / Solvent / Acid / Alkaline	Medium	Excellent

ADVANTAGES OF XLPE CABLES :

1. Higher Current & Short Circuit Rating.
2. Higher Insulation resistance - 1000 times more than PVC cables, Longer service life.
3. XLPE Cable installation is easy due to light weight & small diameter, so requiring less size of cable trays.
4. Low Dielectric loss is a significant advantage.
5. Because of the thermo setting process taking place due the effect of cross linking. The oracle resistance is increased.
6. The thermal resistivity of cross linked material is low compared to PVC.
7. Resistance to Acids, Alkalines is outstanding.
8. The compound does not produce halogen, The adverse environmental influence.

Comparative Ratings of 650/1100 V Multicore heavy duty PVC Insulated Cables & XLPE Insulated Cables. 3,3.5 & 4 Core Unarmoured / Armoured PVC Sheathed Cables with Aluminium Conductor.

NOMINAL SIZE OF CABLE	3, 3.5 & 4 Core PVC Insulated & Sheathed cables as per IS-1554 (Part-1) 1988			3, 3.5 & 4 Core XLPE Insulated & Sheathed cables as per IS-7098 (Part-1) 1988		
	IN GROUND	IN AIR	APPROX VOLTAGE DROP	IN GROUND	IN AIR	APPROX VOLTAGE DROP
SQ. MM.	AMP.	AMP.	MV / AMP / MTR	AMP.	AMP.	MV / AMP / MTR
16	60	51	4	73	70	4.2
25	76	70	2.5	94	96	2.7
35	92	86	1.8	113	117	1.9
50	110	105	1.3	133	142	1.4
70	135	130	0.93	164	179	0.99
95	165	155	0.68	196	221	0.72
120	185	180	0.54	223	257	0.58
150	210	205	0.46	249	292	0.48
185	235	240	0.38	282	337	0.39
240	275	280	0.28	326	399	0.31
300	305	315	0.25	367	455	0.26
400	335	375	0.20	420	530	0.21



RAILWAYS



SATELLITE



TELE COMMUNICATION



SHIPPING



ELEVATOR

BRIMSON®

AN ISO 9001 CERTIFIED CO.

CE

Product	Size / Area	Specification
PVC POWER CABLES	1.5 to 400 Sq. mm.	Conf. IS : 1554 Part-1/88 & IEC 60227-1
PVC CONTROL CABLES	Upto 44 Core & upto 300 Sq. mm.	Conf. IS : 1554 Part-1/88
PVC FLEXIBLE CABLES	Upto Multicore-24C x 50 Sq. mm. Upto 1C x 630 Sq. mm.	Conf. IS : 694/90 & IEC 60227-2
PVC HOUSE WIRING CABLES	All sizes (Multistrand)	As per IS : 694/90 & IEC 60227-2
INSTRUMENTATION CABLES	As per requirements	As per IS : 5026 / 5608 & IEC 60227-2
TELEPHONE CABLES	Flexible (Unarmoured) & Armoured	Conf. ITD :113-B, 114-B, 113-C, 129-C.
SUBMERSIBLE CABLES	Upto 3C x 120 Sq. mm.	Conf. IS : 694/90 & IEC 60227-3
CO-AXIAL CABLES	RG & UR Series (Unarmoured & Armoured)	Conf. BS : 2316, ASTM, MIL-C-17
TWIN FLAT CABLES	Upto 16 Sq. mm.	Conf. IS : 694/90
WEATHER PROOF CABLES	As per requirements	Conf. IS : 694/90
ELEVATOR CABLES	Upto 24C x 2.5 Sq. mm.	Conf. BS : 6977 & IEC 60227-5
TRS / E. P. R. / P. C. P. / C. S. P. H.O.F.R. / Silicon Rubber Cables	Upto 4 x 120 Sq. mm.	Conf. IS : 9968 Part-1
WELDING CABLES Copper/Aluminium	Upto 120 Sq. mm.	Conf. IS 9857 (1990)

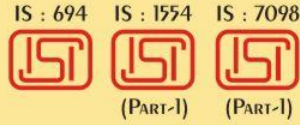
F.R., F.R.L.S., Z.H.F.R. or any other type of Cables as per Customer's specification.



Our most of the products are certified, approved, tested and regularised by :



Electricity is born for life, but it should be used safely...



OUR PRESTIGIOUS CUSTOMERS :

» Government Organisations :

- Northern Coalfield Ltd. • NHPC • JNPT • BHEL • Keltron • NTPC • BARC
- SAIL • BALCO • MES • HUDA • UPSEB • RSEB • CSEB • Central Railway
- BSNL • Indian Oil (Digboi Refinery) • West Bengal Agro Industries
- Visakhapatnam Port Trust • Ferro Scrap Nigam Ltd. (PEN)
- Gujarat Industrial Power Co. Ltd. (GIPCL) • National Textiles Corp. (NTC)

» Bank Sector :

- Citibank • HSBC • Yes Bank • ABN-Amro • Punjab National Bank

» Exporters :

- Bhutan Power Corporation
- Ethiopia - Finchha Sugar Pvt. Ltd. - (Project by : Kirloskar Bros. Ltd.)
- EGYPT - Government Water Department - Project by : Kirloskar Bros. Ltd.)

» Sugar Factory :

- Vasantdada Sahakari Maka Prakriya Karkhana

» Corporate Sector :

- Lupin • Tata Power Co. • Air India • Thermex • Tata Viston • Voltas
- Reliance Biotech (IPCL) Corp. • Alfa Lavel • Reliance Industries Ltd.
- Kodak House • Kirloskar Bros. Ltd. • Kirloskar Oil Engines Ltd. • Atul Ltd.
- Mahindra & Mahindra • ECE Industries • Shipping Corporation of India
- Manikgarh Cement • Coca Cola • ESPN Sports • I.T.C. Ltd. • Cummins (I) Ltd.
- Thyssen Krupp • Sterlite Industries • Gujarat Ambuja Cement Limited
- Suzlon Energy Ltd. • Neyveli Lignite Corp. Ltd. • Hindustan Aeronautics Ltd.

» Builders & Developers :

- Shapoorji Pallonji & Co. Ltd. (Godrej Const. Div.) • Hawre Constructions
- Lokhandwala Builders • Chamunda Developers • Rustomji Group
- Patidar Developers • Pratibha Developers

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that you can blindly trust them like us!



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